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BULLETIN No. 130-65

HYDROLOGIC DATA: 1965

Volume IV: SAN JOAQUIN VALLEY

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ERRATA
Bulletin 130-65
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Volume IV San Joaquin Valley

1. Page 75 Daily Mean Discharge

   Burns Creek below Burns Reservoir

   Correct station number from B56400 to B56100

2. Plate 12 NITRATE CONCENTRATIONS IN THE SAN JOAQUIN VALLEY

   6 wells showing nitrate concentrations in T5S, R9E MDB & M

   should be plotted in T4S, R9E

State of California

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ORGANIZATION OF BULLETIN NO. 130 SERIES

Volume I - NORTH COASTAL AREA

Volume II - NORTHEASTERN CALIFORNIA

Volume III - CENTRAL COASTAL AREA

Volume IV - SAN JOAQUIN VALLEY

Volume V - SOUTHERN CALIFORNIA

Each volume consists of the following:

TEXT and

Appendix A - CLIMATE

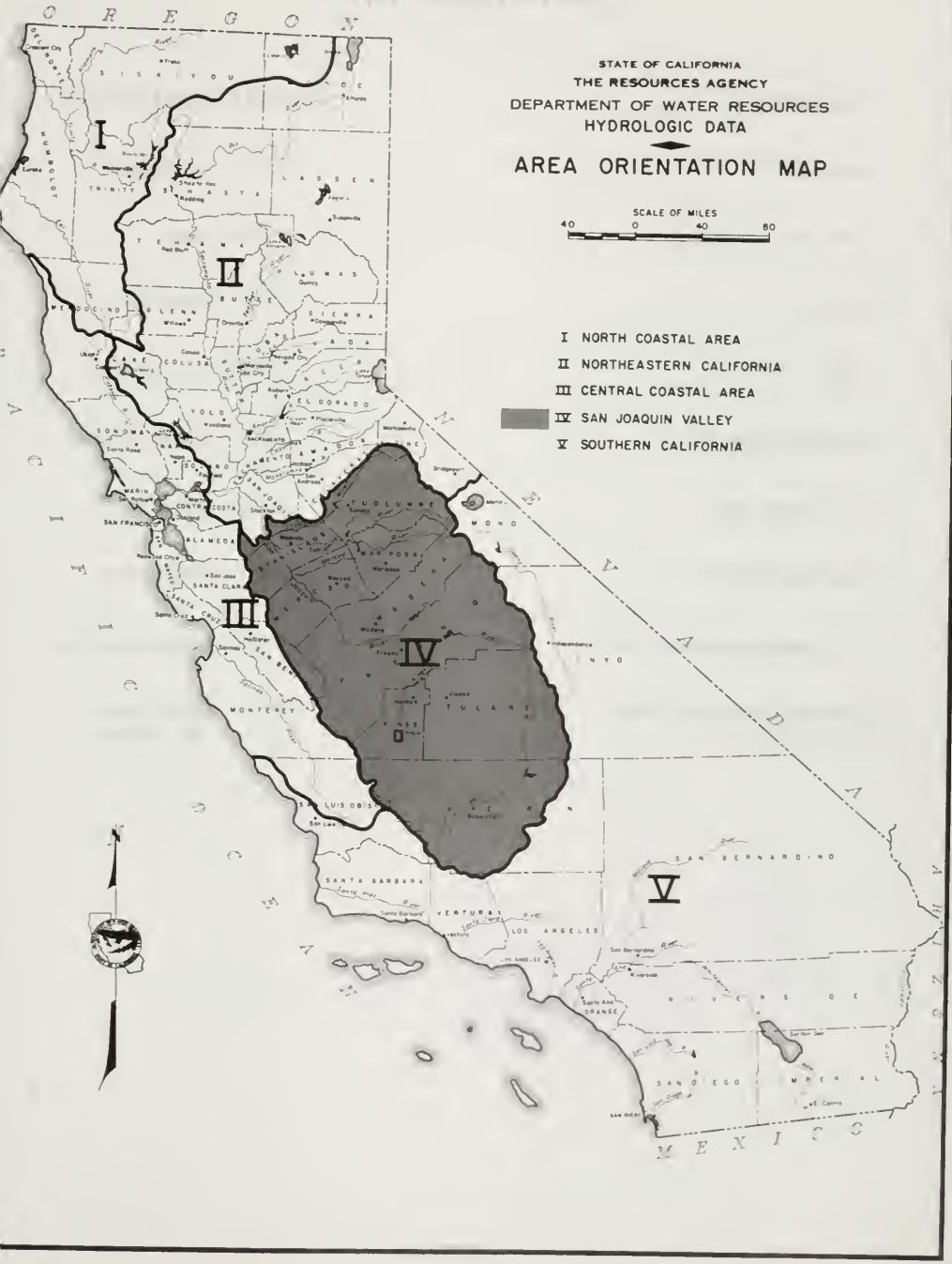
Appendix B - SURFACE WATER FLOW

Appendix C - GROUND WATER MEASUREMENTS

Appendix D - SURFACE WATER QUALITY

Appendix E - GROUND WATER QUALITY

FIGURE 1


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
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SCALE OF MILES
40 0 40 80
I NORTH COASTAL AREA
II NORTHEASTERN CALIFORNIA
III CENTRAL COASTAL AREA
IV SAN JOAQUIN VALLEY
V SOUTHERN CALIFORNIA
OREGON
NEVADA
PACIFIC OCEAN
MEXICO
I
II
III
IV
V

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.7	Cubic meters per minute

FOREWORD

Bulletin No. 130-65, entitled "Hydrologic Data: 1965, Volume IV: San Joaquin Valley", presents data pertaining to climate, surface water flow, diversions, ground water levels, surface water quality, and ground water quality in the San Joaquin Valley for reporting periods during 1965.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on page iii. The organization of the bulletin is outlined on page ii.

The basic data programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-65 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for effective planning, design, construction, and operation of water facilities.

William E. Warne, Director
Department of Water Resources
The Resources Agency
State of California
November 18, 1966

State of California
The Resources Agency
Department of Water Resources

EDMUND G. BROWN, Governor
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Reviewed and Coordinated by Statewide Planning Office, Data Coordination Branch

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ACKNOWLEDGMENTS

In the collection of data for this bulletin, the Department has been aided by various public and private agencies and by many private citizens. This cooperation is gratefully acknowledged, and it is especially fitting to commend the following agencies:

U. S. Weather Bureau

U. S. Bureau of Reclamation

U. S. Army Corps of Engineers

U. S. Geological Survey

City and County of San Francisco

Kern County Water Agency

Kern County Land Company

Modesto Irrigation District

Turlock Irrigation District

Oakdale Irrigation District

Merced Irrigation District

Fresno Irrigation District

Kings River Water Association

Central California Irrigation District

Tule River Association

Fresno County Health Department

Kern County Health Department

Tulare County Health Department

ABSTRACT

Tables show data on climate, surface-water flow, ground-water levels, and surface- and ground-water quality during the 1964-65 water year. Figures show locations of surface-water sampling stations and electrical conductance at selected stations. Plates show locations of climatological stations, surface-water measurement stations selected wells, and ground-water areas; distribution of precipitation; ground-water level changes; ground-water levels; ground-water quality; and nitrate concentrations

CHAPTER I. INTRODUCTION

The Department of Water Resources is concerned with development and use of water supplies and with methods that are employed to observe and measure hydrologic conditions. Hydrologic data are used for the planned development of new water supplies, hydropower, drainage, flood control, navigation, and other associated engineering projects. The Department's hydrologic data programs have been designed to supplement and augment the data activities of other agencies to fulfill the specific needs of the Department and the State.

This report contains a record of hydrologic data collected and assembled by the San Joaquin District of the Department of Water Resources. It brings together in a permanent and usable form the following types of hydrologic basic data collected during the time intervals shown below:

October 1, 1964-September 30, 1965

Surface Water Flow
Diversions
Surface Water Quality
Ground Water Quality

July 1, 1964-September 30, 1965

Climate

July 1, 1964-June 30, 1965

Ground Water Levels

Climate

The objective of the climate program is to provide sufficient historical records of climatological data to plan water development projects to meet the social, economic, and physical needs of the people of California. This objective is achieved by gathering on a continuing basis all published climatological data that are considered pertinent to the design and operation of water resources projects, including data on precipitation, temperature, evaporation, and wind. These published data are supplemented with data gathered by the Department where necessary for the Department's needs.

The optimum operation of reservoirs requires data of precipitation, evaporation, and wind movement. Reservoir spillway design requires data on duration, frequency, and intensity of rainfall over the entire drainage area. Precipitation data from a few stations are needed for early forecasting of possible flooding and water supply conditions.

Climatological data gathered by the Department along with that from cooperating agencies and individual observers are published in Appendix A.

Surface Water Flow

The objective of the surface water measurement program is to provide historical record of the flows of surface water throughout the State. This program augments that of the U. S. Geological Survey and other agencies to provide a statewide base network of primary and secondary stream gaging stations that will satisfy the full needs of the Department and State in connection with water-associated engineering activities. Knowledge of the occurrence of surface water quantitatively with time and location is basic to development of the water resources of the State. Continuous historic records of natural streamflow and diversions are essential to selecting and operating water development projects, determining the maximum amount of water that can be anticipated on a firm basis at a storage site, and the sizing of a reservoir to obtain certain firm yields at that site. Long-time records of streamflow are also essential to formulate and operate flood control projects. These records can provide the basis for developing agreements on water rights without expensive litigation.

The surface water activities of the San Joaquin District of the Department of Water Resources involve the operation and maintenance of stream gaging stations, collection and compilation of surface water

flow discharge and stage records, measurement of the quantities of water diverted by major diverters from the San Joaquin, Merced, Tuolumne, and Stanislaus Rivers, and Dry Creek near Modesto.

Records of streamflow and diversion gathered by the Department and similar data collected from other agencies are published in Appendix B of this report.

Ground Water Measurements

The objectives of the ground water program are to provide sufficient records of ground water level data for the planning and development of the ground water resources of the State; to determine the amount of water in storage and the change in storage over time; and to determine the direction and magnitude of the movement of ground water. All studies of ground water problems and plans for solution of these problems have two factors in common: they must be founded upon records of water level measurements and upon quality analyses of water samples obtained over a period of years.

On the east side of the San Joaquin Valley from the Chowchilla River to the southern end of the Valley, records of ground water levels extending as far back as 1921 have been obtained through combined efforts of the State, U. S. Bureau of Reclamation, and many local agencies. In 1930 the Department of Water Resources began the collection of ground water level data in connection with special investigations of water resources of specific areas and has gradually developed a continuous program for collection and evaluation of basic water level data. Through cooperative activities of the federal and local agencies, coordinated and augmented by the Department, the program of annual, semiannual, and monthly measurements of ground water levels has gradually expanded.

Appendix C includes the following: ground water level measurements made on approximately 900 wells which were selected as being representative of the respective areas; hydrographs of selected wells and areas; maps showing lines of equal elevation of water in wells for both the unconfined and pressure surface; and summary tables.

Surface Water Quality

Objectives of the surface water quality data program are: (1) to determine the quality of the surface waters of the State through a network of sampling stations representative of all significant surface streams and lakes; (2) to detect changes in the quality of surface waters and to alert the appropriate control agencies when adverse changes are noted; and (3) to determine long- and short-term trends in surface water quality. Because neither water of excellent quality in short supply nor water of unusable quality in excessive supply is suitable for the development of extensive water resources projects, it is essential that knowledge of the quality and quantity of the water be obtained before serious consideration is given to the details of design.

Realizing the necessity for water quality information, the Department initiated the Surface Water Quality Data Program in April 1951. Information obtained from this program has proven invaluable in the development of the California Water Plan. Data for this program in the San Joaquin District are obtained through operation of 31 sampling stations. The operation of these stations entails the routine collection and analysis of samples for determination of mineral and sanitary quality and the maintenance of continuous conductivity recorders at nine selected stations. These data are published monthly and distributed to interested agencies and individuals.

Records of surface water quality obtained by this program are contained in Appendix D.

Ground Water Quality

Water development to meet the needs of California's phenomenal growth is one of the major problems facing the State. Although ground water has been, and is, one of the major sources of supply, the present widespread dependence upon ground water requires constant vigilance, coupled with remedial action where necessary to assure that the quality of ground water remains suitable for all intended uses. In view of this need for vigilance, a statewide program of observation and study of ground water quality was initiated by the Department of Water Resources in 1953.

The objectives of the Ground Water Quality Data Program are: (1) to determine the quality of the ground waters of the State by sampling of water from a grid of representative wells; (2) to detect changes in the quality of the ground water and to alert the appropriate agencies when the changes are significant; and (3) to determine trends in ground water quality.

The ground water quality activities of the San Joaquin Valley for the reporting period October 1, 1964, through September 30, 1965, were:

1. A concentrated study of ground water quality conditions in Stanislaus County.

2. A concentrated study of ground water quality conditions in Madera County in cooperation with the U. S. Geological Survey.

3. A concentrated study of ground water quality conditions in a portion of western Kern County.

4. A study of wells and the surrounding area where a significant deviation in quality was noted during past years to determine, when possible, the cause of the deviation and the area affected.

The results of these activities are summarized in Appendix E.

Summary of Basic Data Activities

Table 1 presents a summary of the basic data activities in the San Joaquin District. The table shows for each program the origin, purpose, authorization, type of data collected, frequency of measurements or service, agency collecting the data, and number of stations of each type.

TABLE 1

SUMMARY OF BASIC DATA ACTIVITIES
Bulletin 130-65
San Joaquin District

Activity	Origin	Purpose	Authorization	Data: Type Collected	Data: Collected by 1/	Data: Frequency Measured or Serviced	Number of Stations
Climate	1956	To supplement record compiled by the U. S. Weather Bureau and other agencies. To index and file and publish all data not published in other reports.	Sections 228, 12616 of the Water Code	Precipitation	Cooperators	Daily	201
				Precipitation	USWB	Daily	139
				Storage gages	DWR	Annually	6
				Storage gages	Other agencies	Annually	50
				Temperature	Cooperators	Daily	60
				Evaporation	Cooperators	Daily	12
				Wind	Cooperators	Daily	10
Surface Water Flow	1924	To supplement the stream gaging network of the U. S. Geological Survey and other agencies to provide an inventory of surface water data for (1) forecasting streamflow, (2) planning water development projects, (3) operation of flood control and multiple purpose projects, and (4) formulation of agreements on water rights without expensive litigation.	Sections 225, 226 of the Water Code	Discharge	DWR	Serviced twice monthly measured monthly	31
				Discharge	Other agencies	Monthly	30
				Stage	DWR	Serviced twice monthly	18
				Stage	Other agencies	Monthly	9
				Diversions	DWR	Visited and measured monthly	137
				Diversions	Other agencies	Monthly	124
				Miscellaneous discharge measurements	DWR	During flow periods	10
Ground Water Measurements	1930	To supplement the collection of ground water data carried out by other agencies. Compile data and prepare annual ground water maps, and publish data on selected wells in annual report so that: (1) information will be available for drainage and overdraft problems, (2) planning to develop potential ground water basins can be facilitated.	Sections 225, 226, 228, 12622 of the Water Code	Depth to ground water measurements	DWR	Key wells measured:	
						Monthly	35
						Spring	1,500
						Fall	550
					Other agencies	Key wells measured:	
						Monthly	275
						Spring	6,000
						Fall	1,500
Surface Water Quality	1951	(1) To determine the quality of the San Joaquin District's surface waters through a network of sampling stations representative of all significant surface streams and lakes in the District. (2) To detect changes in the quality of surface waters and alert control agencies when adverse changes are noted. (3) To determine trends in surface water quality. (4) To record and catalogue the data in a readily available form. (5) To disseminate the data and information gathered to interested agencies as soon as possible.	Sections 226, 229, 12616, and 12622 of the Water Code	Mineral Sample	DWR	Monthly	11
						Quarterly	3
						Semiannually	2
				Mineral Sample	Cooperators	Monthly	12
						Quarterly	3
				Electrical Conductivity	DWR	Monthly	7
				Coliform	DWR	Monthly	14
						Quarterly	3
						Semiannually	2
				Coliform	Cooperators	Monthly	6
						Quarterly	4
				Heavy metals	DWR	Semiannually	7
				Heavy metals	Cooperators	Semiannually	4
Ground Water Quality	1953	(1) To determine the quality of the ground water (where deemed necessary) through a grid of selected wells. (2) To detect changes in the quality of the ground water and to determine the cause of these changes when possible and to notify the appropriate regulatory agency. (3) To determine trends in ground water quality. (4) To record and catalogue the data in a readily available form. (5) To disseminate the data to interested agencies as soon as possible.	Sections 226, 229, and 12616 of the Water Code	Mineral and Trace Element Samples	DWR	Annually	400
				Mineral and Trace Element Samples	Cooperators	Annually	100

1/ DWR - Department of Water Resources
USWB - U. S. Weather Bureau

APPENDIX A

CLIMATE

APPENDIX A. CLIMATE

Introduction

This appendix presents climatological data pertaining to precipitation, temperature, wind movements, and evaporation, as well as climatological station description and summaries of seasonal and mean precipitation at selected stations. These data are presented for the period July 1, 1964, to September 30, 1965, and are reported in monthly and seasonal values except for data collected by precipitation storage gages. These values are obtained on an annual basis and may vary depending on time of servicing.

Presented in Table A-1 is the index to climatological stations. Presented in Table A-2 is a summary of seasonal and mean precipitation at selected stations. Table A-3 shows the accumulative monthly precipitation at key stations. Table A-4 presents the monthly precipitation. Table A-5 presents the monthly temperature. Table A-6 presents the monthly summary of evaporation data.

Plate 1 shows the location and types of climatological stations, the San Joaquin District's boundary, the hydrographic unit boundaries, and the major drainage boundaries. Plate 2 shows lines of mean seasonal precipitation for the 50-year period 1915 to 1965. Plate 3 shows the 1964-65 seasonal precipitation in percent of the 50-year normal.

Measurement Techniques

One of the major objectives of this program is to document the location, equipment, and methods of observation in use at all of the weather stations. Many of the records presented in this appendix were collected by individual observers and local agencies. Wherever possible observers are encouraged to use the methods which are prescribed by the U. S. Weather Bureau.

Definitions of Terms and Abbreviations

The definitions of terms and abbreviations used in this appendix and related to precipitation, temperature, evaporation, and wind movement are given below:

Term or Abbreviation	Definition
Precipitation (Precip.)	The total amount of precipitation, in inches, for the period indicated.
Maximum (Max.)	The highest temperature in degrees Fahrenheit for the month.
Minimum (Min.)	The lowest temperature in degrees Fahrenheit for the month.
Average Maximum (Avg. Max.)	The arithmetical average of daily maximum temperatures in degrees Fahrenheit for the month.
Average Minimum (Avg. Min.)	The arithmetical average of daily minimum temperatures in degrees Fahrenheit for the month.
Average (Avg.)	The arithmetical average of the average maximum and average minimum temperature in degrees Fahrenheit.
Evaporation (Evap.)	The net amount of water evaporation, in inches, for the period indicated.
Wind	The total movement of air, in miles, for the period indicated.

All temperatures shown in this appendix are air temperatures.

T	Trace
E	Wholly or partially estimated.
-	No record.
M	One or more days of record missing; if average value is entered, less than 10 days of record is missing.
N	Record not available at time of publication.
*	Amount included in the following measurement; time distribution unknown.
V	Includes total for previous month.

Methods and Procedures

The Department of Water Resources gathers basic data relating to climatic phenomena in the San Joaquin Valley. This activity includes field measurements and office computations to determine the instantaneous, daily, monthly, seasonal, and annual temperatures, precipitation, and evaporation.

The field activities include the installation and maintenance of weather stations. The installed equipment obtains measurements of: (1) daily maximum and minimum temperatures; (2) precipitation--annual amounts from storage gages in remote areas, daily amounts from standard rain gages, and instantaneous amounts from recording rain gages; (3) evaporation in inches; and (4) wind movement in miles.

The office activities consist of computation and compilation of approximately 257 monthly and annual climatological observations to provide a continuous and current record. This includes the computations of intensities from recording rain gages and preparation of hourly precipitation records for future use in development of rainfall intensity-duration-frequency relationships.

Accuracy and Limitations

The equipment used to obtain climatological data is in most cases of the type used and accepted by the U. S. Weather Bureau.

To insure the utmost accuracy in the data published in this appendix, a program of annual and semiannual station inspections has been inaugurated. These inspections insure that the equipment is being properly maintained and the observations are taken in accordance with U. S. Weather Bureau standards.

Due to the influences of geography, direction and degree of slope, elevation, terrain, wind currents, and many other factors, the ability of a climatological station to reflect the conditions of the area surrounding it is greatly limited.

Significant Figures

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

Precipitation to hundredths of an inch.

Temperature to tenths of degree Fahrenheit.

Evaporation to hundredths of an inch.

Wind movement in miles.

Drainage Basin Designation

The State is divided into major hydrographic areas, and each of these areas is assigned an alphabetical letter which is the first digit of station number. The second number has been assigned to streams of primary importance.

The major hydrographic areas and stream basins which are reported in this appendix are as follows:

Hydrographic Area B

San Joaquin River Basin

B0 - San Joaquin Valley Floor	B6 - Fresno-Chowchilla Rivers
B3 - Stanislaus River	B7 - San Joaquin River
B4 - Tuolumne River	B8 - San Joaquin River on West Side
B5 - Merced River	

Hydrographic Area C

Tulare Lake Drainage Basin

C0 - Tulare Lake Valley Floor	C4 - Green Horn Mountain
C1 - Kings River	C5 - Kern River
C2 - Kaweah River	C6 - Tehachapi Mountains
C3 - Tule River	C7 - Tulare Lake Basin on West Side

Alpha Order Number and Subnumber

A four-digit alpha order number is assigned each station to denote its order in alphabetical sequence for the purpose of identification in machine processing. The subnumber is used to supplement the alpha order number in that it allows for more stations to be placed into the program.

Coding and Numbering System

Explanation of the Headings and Symbols Used in the Columns of Table A-1

The station name, elevation, section, township, and range are self-explanatory.

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

Latitude and Longitude. The location of the station is given in degrees, minutes, and seconds.

Cooperators' Numbers. These numbers are assigned from the following list:

000 - Private Cooperators

001 - 399 Private Agencies

- 001 Kern County Land
- 002 Boswell Company
- 003 P. G. and E. Company
- 004 Southern California Edison Company
- 005 California Electric Power Company
- 010 Amateur Radio Weather Network KTRB
- 011 Southern Pacific Company
- 012 Miller and Lux, Inc.
- 013 Mr. Roger C. Rice

400 - 799 Counties and municipalities

- 401 Hetch Hetchy Water District
- 405 City of Los Angeles, Department of Water & Power
- 420 Stanislaus County

800 - 899 State

- 801 Pomology Department, University of California, Davis
- 804 Division of Beaches and Parks
- 805 State Department of Fish and Game
- 808 Division of Forestry
- 809 Division of Highways
- 812 Regional Subsidence Exploration, Department of Water Resources

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	U. S. Weather Bureau (Climate Data)
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers, Sacramento
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	State Climatologist & Unpublished (U.S.W.B.)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the U. S. Weather Bureau stations are the same as those used by the Weather Bureau. The U. S. Weather Bureau station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record End. If record continues this column is left blank.

Missing Years. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
Stanislaus	50
Tulare	54
Tuolumne	55

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS FOR 1964-65

SAN JOAQUIN DISTRICT

Station Number	Station Name	Elevation (in Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C0 0009	ACADEMY	545	SEC 14	T12S	R22E	P	M	36	52	58	119	32	25	000		1958			10
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E		M	37	23	22	119	44	07	907	040049	1959			20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	M	35	59	25	119	28	42	900		1899			54
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	M	35	38	48	120	10	12	000		1952	1965		15
C0 0332	ARVIN	445	SEC 23	T31S	R29E		M	35	12	00	118	49	00	000		1936			15
C0 0332-02	ARVIN FRICK	437	SEC 16	T31S	R29E	F	M	35	03	32	118	01	40	806		1959	1965		15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	M	36	29	30	118	49	35	900		1925			54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E		M	37	21		120	37		000		1961			24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E		M	36	28	00	118	40	00	900		1948			54
B7 0379	AUBERRY 1 NNE	2010	SEC 06	T10S	R23E	A	M	37	05	40	119	29	50	900		1915			10
C0 0396-02	AVENAL WALDEN	810	SEC 21	T22S	R17E	A	M	36	00	21	120	07	50	000		1957			16
C7 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	M	35	48	23	120	05	18	000		1919			16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G	M	35	57	33	120	13	25	000		1957			16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	M	35	55	30	120	10	05	000		1953			16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P	M	36	37	53	119	00	46	900		1940			54
B5 0425	BADGER PASS	7300	SEC 22	T03S	R21E		M	37	40	00	119	40	00	900		1941			22
B5 0430	BAGBY	825	SEC 06	T04S	R17E	J	M	37	36	48	120	07	48	000		1958			22
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	M	35	22	41	119	02	17	900		1913			15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	M	35	25	38	119	02	34	900		1933			15
C1 0449	BALCH POWER HOUSE	1720	SEC 12	T12S	R26E	B	M	36	54	33	119	05	15	900		1921			10
C6 0466	BALLINGER	4240	SEC 07	T09N	R23W	B	S	34	53	03	119	22	26	812	000003	1961			15
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E		M	36	49		118	53		900		1961			10
B5 0570	BEAR VALLEY TRABUCCO	2000	SEC 20	T04S	R17E		M	37	34	00	120	07	00	903		1952	1964		22
B5 0570-80	BEAR VALLEY	2060	SEC 20	T04S	R17E		M	37	34		120	07		903		1960			22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E		M	38	12	12	120	04	30	404		1959			55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E		M	36	41	00	118	52	00	900		1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E		M	38	00	00	119	47	00	900		1947			55
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B	M	35	20	11	119	05	27	001		1961			15
B6 0753-80	BIG CEDAR SPRINGS	3280	SEC 26	T06S	R21E	A	M	37	23	14	119	37	56	000		1964			20
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	M	37	12	15	119	14	20	900		1915			10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	M	37	11	59	119	18	19	004		1913			10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	M	37	08	54	119	23	00	004		1922			10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	M	37	12	00	119	20	00	004		1921			10
C1 0821	BISHOP PASS SNOW COR	11040	SEC 02	T10S	R31E		M	37	06	00	118	34	00	900		1947	1964		10
C6 0825-01	BITTER CREEK	1250	SEC 33	T11N	R23W	F	S	35	00	08	119	20	26	812	000002	1961	1965		15
C0 0875	BLACKWELLS CORNER	644	SEC 01	T27S	R20E	A	M	35	36	53	119	52	02	900	040875	1944		13	15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E		M	36	57	37	119	26	45	808		1961			10
C5 0981	BOREL PH	2280	SEC 10	T27S	R32E		M	35	35	00	118	31	00	000		1905			15
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D	M	37	02	18	119	14	24	905		1960			10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	M	35	21	00	119	19	00	001		1944			15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	M	35	11	42	119	11	43	012		1955			15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	M	35	14	25	119	18	23	012		1962			15
C6 1199-01	BURGESS CORRALS	1600	SEC 02	T10N	R23W	N	S	34	58	28	119	18	38	812	000001	1960			15
C0 1244	BUTTONWILLOW	268	SEC 14	T29S	R23E		M	35	24	00	119	28	00	900		1940			15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	M	38	11	50	120	21	55	900		1944			05
C3 1300	CALIF HOT SPRINGS R S	2950	SEC 36	T23S	R30E	R	M	35	53	00	118	41	00	900		1907	1965		54
C3 1425	CAMP NELSON	4825	SEC 33	T20S	R31E	K	M	36	08	24	118	36	54	000		1959			54
C0 1479	CANFIELD RANCH	334	SEC 26	T30S	R26E	N	M	35	16	58	119	09	41	001		1952			15
C0 1490	CANTUA RANCH	295	SEC 26	T16S	R15E	N	M	36	30	10	120	18	50	000		1955			10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B	M	36	32	48	119	45	30	000		1960			10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	M	37	22	03	120	34	20	902		1951			24
B8 1583	CASTLE ROCK RAD LAB	625	SEC 34	T03S	R04E		M	37	38	00	121	32	00	000		1956			39
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 24	T06S	R17E	H	M	37	23	56	120	03	08	900		1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	M	37	28	33	120	06	33	000		1957			22
B6 1590	CATHEYS VALLEY SAWYER	1275	SEC 10	T06S	R17E	C	M	37	25	53	120	05	40	000		1957			22
B6 1591	CATHEYS VAL STONHOUSE	1210	SEC 14	T06S	R17E	M	M	37	24	30	120	05	00	000		1951			22
C5 1647	CHAGOOPA	10390		T16S	R33E		M	36	30		118	27		901		1964			54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	M	37	58	00	119	55	00	900		1955			55
B7 1737	CHIQUITO CREEK	7290	SEC 07	T05S	R24E	N	M	37	30	20	119	23	21	900		1961			20
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 15	T27S	R17E		M	35	35	00	120	07	00	000		1951			40
B6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W		S	34	48	00	119	01	00	900		1941			56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M	S	35	02	18	118	58	28	001		1963			15
B7 1844	CLOVER MEADOWS GS	7002	SEC 06	T05S	R25E		M	37	32		119	17		900		1946			20
C0 1864	COALINGA	671	SEC 32	T20S	R15E		M	36	09	00	120	21	00	900		1942			10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	M	36	02	18	120	26	40	000		1953			10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J	M	36	07	39	120	20	38	900		1911			10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E		M	36	14	00	120	34	00	900		1949			10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q	M	36	08	03	120	22	00	808		1961			10
C0 1871-80	COALINGA FEED YRDS 1 N	1000	SEC 04	T20S	R15E	D	M	36	13	23	120	21	12	806		1964			10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E		M	37	16	00	119	42	00	907	041878	1952			20

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1964-65

SAN JOAQUIN DISTRICT

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	M	36 42 20	120 28 25	000		1954			10
B4 1904	COLD SPRINGS	5680	SEC 36	T04N	R17E	A	M	38 09 57	120 02 52	000		1960	1964		55
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K	M	37 59 00	120 38 00	903		1954		03	05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	M	36 05 53	119 34 51	900		1912			16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	J	M	36 02 36	119 38 42	002		1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	M	35 57 49	119 42 14	002		1951			16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A	M	37 43 25	120 12 12	808		1959			22
C5 2114	CRABTREE MEADOW	10720	SEC 01	T16S	R33E		M	36 34 00	118 20 00	900		1948			54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	M	37 17 26	119 31 35	003		1903			20
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	M	35 07	118 35	806		1961			15
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E	M	37 07 18	119 59 00	000		1946			20
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35 46 23	119 14 37	900		1876			15
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37 25 24	121 22 42	900		1958			50
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E		M	37 07 00	120 44 00	000		1949		01	24
B0 2389-05	DENAIR 3 NNE	137	SEC 20	T04S	R11E		M	37 34	120 47	900		1964			50
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35 45 55	119 58 22	000		1959			15
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35 15 08	118 51 00	000		1937			15
C0 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	C	M	36 32 40	119 23 06	000		1944			54
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36 20 24	120 21 30	000		1959			10
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36 19 53	120 24 04	000		1958			10
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37 43 00	120 24 18	401		1940			55
C5 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E		M	35 57 00	118 36 00	900		1955			54
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37 45 14	120 06 30	900		1909			22
C1 2577	DUSY BENCH	9470		T10S	R31E		M	37 06	118 35	901		1964			10
C3 2591	EAGLE CREEK	6650		T22S	R31E		M	35 59	118 39	903		1964			54
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37 52 30	119 57 25	401		1925			55
C1 2653	EAST VIDETTE MEADOW	10400	SEC 03	T14S	R33E		M	36 44 00	118 23 00	900		1955	1964		54
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E		M	35 06 05	119 01 45	001		1963			15
B0 2820	EL SOLYO RCH	50	SEC 08	T04S	R07E	C	M	37 36 30	121 13 35	000		1953			50
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37 47 00	121 00 00	801		1944			39
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	G	M	37 35 12	120 16 05	900		1935			22
C0 2922	EXETER FAUVER RANCH	439	SEC 20	T18S	R27E	D	M	36 21 28	119 04 45	900		1938			54
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37 19 04	120 20 04	000		1959			24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35 10 44	119 32 39	000		1956			15
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36 51 04	120 37 03	000		1934			10
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36 21 48	120 09 22	900		1942			10
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36 22 20	120 06 12	000		1933			10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37 16 27	118 58 27	900		1940			10
C0 3257	FRESNO WB AP	331	SEC 29	T13S	R21E	C	M	36 46 33	119 42 39	900		1899			10
C0 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36 08 27	120 16 22	806		1963			10
B7 3261	FRIANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36 59 00	119 43 00	900		1896			10
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36 34 05	118 46 01	900		1921			54
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35 09 12	119 14 10	012		1960			15
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35 43 28	118 42 07	900		1951			15
C4 3465	GLENNVILLE FULTON RS	3500	SEC 29	T25S	R31E	H	M	35 44 00	118 40 00	900		1940			15
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E		M	38 09 00	119 36 00	900		1947			55
C1 3548	GRANITE BASIN	10000	SEC 28	T12S	R31E		M	36 52 00	118 36 00	900		1947	1964		10
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36 44 29	118 57 40	900		1924			54
B5 3612-03	GREEN VALLEY RCH	3170	SEC 12	T02S	R16E	J	M	37 46 24	120 09 00	000		1957	1964		22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37 50 00	120 14 00	900		1940			55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37 49 00	120 06 00	900	PN9065	1940			55
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37 13 26	121 02 37	000		1927			24
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37 12 00	121 03 00	000		1954			24
B0 3694	GUSTINE AVOSET	98	SEC 08	T08S	R09E	B	M	37 15 28	120 59 53	000		1928			24
B0 3698-80	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37 10 25	121 01 54	000		1958			24
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36 19 43	119 39 55	900		1899			16
C0 3749	HANFORD WELL # 21	240	SEC 26	T18S	R21E		M	36 20	119 40	000		1964			16
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36 58 18	119 12 54	905		1960			10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37 56 42	119 46 54	900		1910			55
B6 3948	HIDDEN VALLEY	1880	SEC 06	T06S	R19E	Q	M	37 26 00	119 55 39	000		1949			22
B0 3981	HILMAR	90	SEC 14	T06S	R10E	M	M	37 24 34	120 50 54	000		1948			24
C3 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E		M	36 22 00	118 39 00	900		1959			54
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35 56 53	119 35 30	002		1952			16
C0 4061-02	HOMELAND DIST SEC 17	206	SEC 17	T24S	R22E	K	M	35 50 23	119 36 47	002		1952	1964		16
C0 4061-03	HOMELAND DIST SEC 34	196	SEC 34	T23S	R22E	R	M	35 53 43	119 34 24	002		1951			16
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37 29 40	120 08 55	000		1955			22
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37 28 10	120 14 00	000		1939			22
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37 30 10	120 14 08	901		1960			22
C3 4120	HOSSACK	7100	SEC 16	T20S	R31E		M	36 11 00	118 37 00	900		1959			54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E		M	38 06 00	119 45 00	900		1948			55

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1964-65

SAN JOAQUIN DISTRICT

Station Number	Station Name	Elevation (in Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Station Number	Record Began	Record Ended	Years Missing	County Code
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M 38 12 00	120 21 36	900			19[illegible]			[illegible]
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M 37 13 45	119 13 10	900			1915			1[illegible]
C0 4188	HURON RANCH		SEC 24	T19S	R17E		M 36 16	120 06	000			1951			1[illegible]
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M 36 24 58	120 40 17	900			1918			35
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M 37 26 18	120 11 46	0[illegible]			1952			22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	P	M 35 38 46	118 28 45	903			1949			15
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E		M 37 32 36	119 50	905			1958			22
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M 35 58 13	118 32 27	900			1954			54
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E		M 37 18 00	119 06 00	900			1946			1[illegible]
C2 4452	KAWEAH PH 3	1370	SEC 33	T16S	R29E	Q	M 36 29 12	118 50 06	004			1913			54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C	M 35 13 28	118 33 55	000	044463		1948			15
B8 4508	KERLINGER	172	SEC 16	T03S	R05E	E	M 37 40 35	121 25 59	900			1947			39
C0 4510-02	KERMAN 2 ESE	225	SEC 17	T14S	R18E	H	M 36 42 58	120 01 26	806			1960	1965		10
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B	M 35 26 27	118 47 45	0[illegible]3			1916			15
C5 4518	KERN RIVER INTAKE 3	3650	SEC 12	T23S	R32E	F	M 35 56 40	118 28 37	900			1952			54
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F	M 35 56 43	118 28 33	004			1921			54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N	M 35 27 37	118 46 48	900			1904			15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A	M 35 46 35	118 26 08	900			1946			15
C5 4527-01	KERNVILLE R S	2600	SEC 15	T25S	R33E	J	M 35 45 20	118 25 00	90[illegible]			1953	1964		15
C0 4534	KETTLEMAN CITY 1 SSW	310	SEC 19	T22S	R19E	N	M 35 59 45	119 57 55	900			1930		03	16
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F	M 36 01 50	120 06 15	000			1931			16
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L	M 36 04 28	120 05 08	900			1933			16
B0 4590	KNIGHTS FERRY 2 ESE	315	SEC 27	T01S	R12E		M 37 47 54	120 38 42	900			1905			50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A	M 38 28 42	120 00 48	900			1948			02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F	M 37 58 00	119 53 00	900			1909			55
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	P	S 34 49 58	118 51 51	900			1940			15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N	M 37 13 50	120 14 50	900			1899			24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H	M 37 18 39	120 15 05	000			1946			24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N	M 36 23 00	119 01 31	900			1899			54
C0 4957	LINDSAY	395	SEC 17	T20S	R27E	F	M 36 11 24	119 04 20	900			1913			54
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E	M 37 23 05	120 43 15	000			1948			24
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D	M 37 22 29	120 47 40	000			1952			24
B8 5074	LONE TREE CANYON	420	SEC 02	T04S	R05E	R	M 37 36 40	121 22 49	900			1933			39
C6 5098	LORAINE	2720	SEC 21	T30S	R33E	R	M 35 18 05	118 25 54	900			1941			15
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P	M 36 59 02	120 50 45	000			1948			24
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q	M 37 00 54	120 53 55	904			1956			24
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L	M 37 03 00	120 51 00	900			1873			24
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C	M 36 52 52	120 56 25	900			1932			24
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N	M 35 37 00	119 41 17	900			1912			15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J	M 36 54 48	119 14 42	905			1960			10
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E		M 38 01 00	119 53 00	900			1948			55
B6 5202	LUSHMEADOWS RCH	3215	SEC 18	T05S	R20E	N	M 37 29 26	119 49 54	000			1959	1965		22
B0 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N	M 36 55 15	120 01 12	904			1952			20
B0 5236	MADERA R S	200	SEC 13	T11S	R18E	P	M 36 58	120 03	900			1950			20
C0 5257	MAGUNDEN	440	SEC 36	T29S	R28E	G	M 35 21 42	118 55 18	004			1927			15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D	M 37 20 31	119 19 45	905			1947			2[illegible]
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H	M 37 47	121 12	900			1964			39
C7 5338	MARICOPA	680	SEC 36	T12N	R24W	J	S 35 04 52	119 23 09	900			1911			15
C7 5338-01	MARICOPA F S	885	SEC 12	T11N	R24W	E	S 35 04	119 24	000			1959			15
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B	M 37 29 10	119 58 00	900			1909			22
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B	M 37 29 20	119 57 55	0[illegible]			1958			22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E	M 37 26 30	119 49 37	0[illegible]			1952			22
B5 5348	MARIPOSA CIR 9 RCH	3536	SEC 27	T04S	R19E	R	M 37 33 13	119 50 35	000			1957	1965		22
B5 5352	MARIPOSA R S	2100	SEC 15	T05S	R18E	F	M 37 30 04	119 59 05	808	045352		1943			22
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B	M 36 20 24	120 24 54	000			1939			10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G	M 37 53 25	119 51 10	900			1930		21	55
B0 5408-80	MATTOS RANCH	170	SEC 14	T11S	R10E		M 36 59 [illegible]0	120 51 03	0[illegible]			1961			24
B0 5418-80	MAZE BR 2 S	35	SEC 05	T04S	R07E	J	M 37 37	121 13	8[illegible]6			196[illegible]	196[illegible]		5[illegible]
B5 5460	MCDIERMID STA	2990	SEC 33	T02S	R17E	H	M 37 43 18	120 05 48	0[illegible]			1959			22
C7 5480-01	MC KITTRICK F S	1051	SEC 21	T30S	R22E	E	M 35 18 20	119 37 20	0[illegible]			1956			15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F	M 37 04 38	119 26 00	9[illegible]			194[illegible]			1[illegible]
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K	M 37 57 10	120 30 53	4[illegible]4			1955			55
B0 5526	MENDOTA 1 NNW	172	SEC 25	T13S	R14E	H	M 36 46 23	120 23 09	043	PN3064		1941			1[illegible]
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	N	M 36 39 [illegible]0	120 27 18	806			1958			16
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G	M 36 47 15	12[illegible] 22 12	9[illegible]0			1873			1[illegible]
C0 5529	MENDOTA HALFWAY PUMP	450	SEC 07	T17S	R15E	D	M 36 28 10	120 23 30	0[illegible]			19[illegible]6			1[illegible]
C0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q	M 36 44 58	120 28 00	0[illegible]			1948			1[illegible]
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E		M 37 17 43	12[illegible] 29 13	9[illegible]			1872			24
B0 5532-01	MERCED SP	170	SEC 30	T07S	R14E	D	M 37 18 [illegible]1	12[illegible] 29 [illegible]2	011			1872			24
B0 5532-03	MERCED 5 SE	198	SEC 06	T08S	R15E	E	M 37 16 00	120 22 36	8[illegible]6			1959			24

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INDEX OF CLIMATOLOGICAL STATIONS FOR 1964-65

SAN JOAQUIN DISTRICT

Station Number	Station Name	Elevation (in Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Station Number	Record Began	Record Ended	Years Missing	County Code
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F	M	37	17	47	120	21	09	000		1920			24
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A	M	37	18	53	120	28	12	900		1938			24
B8 5550	MERCY HOT SPRINGS	1165	SEC 15	T14S	R10E	R	M	36	42	15	120	51	33	900		1932			10
C3 5669	MILO 5 NE	3400	SEC 18	T19S	R30E	C	M	36	16	40	118	46	15	900		1957			54
B7 5677-80	MINARETS R S	5180	SEC 16	T06S	R24E		M	37	24	38	119	20	56	905		1962	1965		20
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E		M	36	26	00	118	35	00	900		1956			54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D	M	36	40	00	119	05	00	900		1958			10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E		M	36	45	00	118	43	00	900		1957			10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B	M	37	48	40	120	18	20	401		1935			55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H	M	37	38	48	121	00	02	900		1926			50
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J	M	37	40	12	120	58	42	010		1959			50
B0 5741	MODESTO 2	92	SEC 32	T03S	R09E	A	M	37	38	18	120	59	47	900		1942			50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E		M	36	13	00	118	10	00	900		1940			54
C0 5822-80	MOODY RANCH	405	SEC 34	T32S	R28E		M	35	06	15	118	58	00	001		1963			15
C1 5832	MORAINE CREEK	8840		T14S	R31E		M	36	43		118	34		903		1964			54
C3 5883-02	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J	M	36	14	30	118	42	54	901		1963			54
B7 5893	MOUNTAIN REST FFS	4100	SEC 17	T10S	R24E	R	M	37	03	18	119	22	12	905		1960	1965		10
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E	M	37	17		119	06		004		1963			10
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E	M	37	20	33	122	50	00	900		1889			50
B0 6168-01	NEWMAN 1 SE	80	SEC 29	T07S	R09E	B	M	37	18	12	121	00	06	806		1960	1965		24
C0 6230-50	NORTH BELRIDGE	630	SEC 26	T27S	R20E	F	M	35	33	04	119	47	28	000		1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M	M	37	13	57	119	30	15	900		1904			20
B0 6303	OAKDALE	155	SEC 11	T02S	R10E	N	M	37	46	10	120	50	53	000		1880		01	50
B0 6305	OAKDALE WOODWARD DAM	215	SEC 09	T01S	R10E	Q	M	37	51	28	120	52	42	900		1918			50
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L	M	37	19	46	119	38	42	000		1961			20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F	M	36	14	50	120	18	50	808	046393	1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E		M	36	18	00	120	24	00	900		1949			10
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K	M	35	41	00	118	14	00	903		1938			15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K	M	36	37	18	119	18	40	900		1931			10
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D	M	37	21	42	121	03	47	000		1896			50
B5 6552	OSTRANDER LAKE	8600		T03S	R22E		M	37	38	00	119	33	00	900		1947			22
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B	M	37	04	00	121	11	00	900		1949			24
C0 6651	PALOMA RANCH	290	SEC 33	T31S	R26E	P	M	35	10	52	119	11	28	012		1957			15
B8 6675	PANOCHE	1265	SEC 25	T15S	R10E	F	M	36	35	47	120	49	58	900		1922			35
B8 6676	PANOCHE 2 W	1320	SEC 21	T15S	R10E		M	36	36	30	120	52	48	407	06	1957			35
B0 6677	PANOCHE CREEK	370	SEC 29	T14S	R13E	D	M	36	41		120	35		000		1963			10
B0 6679-05	PANOCHE WATER DIST	183	SEC 14	T12S	R11E	H	M	36	53	24	120	43	43	000		1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E		M	38	03	00	119	40	00	900		1948			55
D3 6706	PARKFIELD 7 NNW	3590	SEC 21	T22S	R14E	N	M	36	59	46	120	28	26	900		1948			10
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E		M	37	28	00	121	07	00	000		1912			50
C6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E	S	34	56	27	119	22	52	900		1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E		M	36	36	00	118	40	00	900		1956			54
B8 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C	M	36	52	59	121	08	12	000	046839	1954			24
C1 6857	PIEDRA	580	SEC 08	T13S	R24E		M	36	49	00	119	23	00	900		1917	1964		10
B3 6893	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F	M	38	11	25	119	59	12	003		1922			55
B3 6893-01	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E		M	38	12		119	59		905		1964			55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A	M	36	49	55	119	19	25	903		1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D	M	36	41	54	119	00	54	905		1954			10
B7 6959-80	PLACER G S	3670	SEC 29	T06S	R24E		M	37	22	26	119	21	48	905		1962	1965		20
C0 7055-80	POND 1 N	268	SEC 19	T25S	R25E		M	35	44		119	19		806		1962			15
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R	M	36	03	58	119	01	14	900		1893			54
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R	M	36	04	50	119	04	14	000		1958			54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E		M	35	48	00	118	34	00	900		1953			54
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E		M	35	48	00	118	38	00	900		1954		02	54
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J	M	35	36	30	119	15	45	001		1913			15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P	M	36	58	57	120	30	04	013		1955			10
B4 7145	PRIEST	2245	SEC 31	T01S	R16E		M	37	49	00	120	16	00	401		1928			55
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E		M	36	07	00	118	32	00	900		1955			54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E		M	36	59	00	118	43	00	900		1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J	M	37	10	32	119	55	55	000		1940			20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A	M	37	22	24	119	54	24	000		1957			22
B6 7273	RAYMOND 9 N	1210	SEC 03	T07S	R19E		M	37	20	49	119	52	33	900		1962	1965		22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R	M	37	22	37	119	49	58	000		1954			22
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J	M	36	18	15	119	14	34	004		1888			54
C0 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E		M	36	37		119	27				1962			10
B0 7447-80	RIPON	65	SEC 20	T02S	R08E		M	37	44	33	121	07	21	000		1963			39
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P	M	36	25	58	119	51	36	000		1917			10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K	M	37	20	45	120	08	42	000		1957			22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E		M	36	04	24	118	38	12	901		1964			54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R	M	35	25	40	119	07	42	001		1914			15

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SAN JOAQUIN DISTRICT

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E		M	37	19	00	118	52	00	900		1953			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E		M	35	58	00	118	21	00	900		1947			54
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E		M	38	06	00	119	51	00	900		1948			55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L	S	34	59	45	119	10	59	900		1901			15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K	M	36	43	30	119	32	36	000		1959			10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E	M	36	43	48	119	33	18	808		1958			10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E		M	36	36	25	120	11	15	000		1919			10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E	M	37	05	40	119	43	38	900		1934			20
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J	M	36	36	28	120	11	18	808		1962			10
B0 7836-01	SAN JUAN HQ M & L	105	SEC 10	T10S	R12E	B	M	37	04	50	120	38	35	013	PN5121	1947			24
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E		M	37	03		121	04		904		1959			24
B0 7855	SAN LUIS CANAL CO HQ	106	SEC 21	T10S	R12E	C	M	37	03	15	120	39	45	013		1944			24
C0 7987-80	SANTIAGO RANCH M & L	437	SEC 27	T12N	R22W		S	35	05	35	119	12	35	000		1963			15
C6 8304	SMITH FLAT	3800	SEC 32	T10N	R23W	K	S	34	54	24	119	21	15	812	000004	1960			15
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E		M	37	50	00	119	30	00	900		1947			22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P	M	37	01	30	119	15	06	905		1960			10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E		M	37	59	00	120	23	00	900		1887			55
C0 8375-50	SOUTH BELRIDGE	575	SEC 33	T28S	R21E	A	M	35	27	18	119	42	33	000		1938			15
B0 8378	SOUTH DOS PALOS	116	SEC 21	T11S	R12E	A	M	36	57	52	120	39	15	000		1938			24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N	M	37	30	26	119	37	55	900		1941			22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A	M	35	56	02	119	38	46	000		1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 21	T04N	R17E	H	M	38	11	15	120	06	24	003		1921			55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D	M	36	09	47	118	42	21	900		1953			54
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B	M	36	08	09	118	48	40	900		1924			54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q	M	36	11	35	118	39	23	900		1907			54
C2 8474-80	SQUAW VALLEY FR	1750	SEC 32	T08S	R15E	P	M	36	18	47	120	21	51	808		1959			10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L	M	38	08	23	120	22	10	900		1957			55
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E		M	36	56	00	118	35	00	900		1955			10
C0 8520	STEVENSON DIST SC 33	212	SEC 33	T21S	R23E	K	M	36	03	27	119	29	17	002		1951			54
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	M	36	03	00	118	55	00	903		1959			54
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	Q	M	37	05	12	119	12	36	000		1960			10
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	M	35	08	34	119	27	53	900		1940			15
C7 8755	TAFT KTKR RADIO	1030	SEC 14	T32S	R23E	G	M	35	08	50	119	28	18	000		1954			15
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	M	35	08	00	118	27	00	900		1876			15
C6 8832	TEHACHAPI R S	3975	SEC 21	T32S	R33E		M	35	08	00	118	27	00	900		1940			15
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R18W	H	S	35	01	35	118	44	38	900		1895			15
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	M	36	24	37	119	00	20	903		1959			54
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	M	36	18	47	120	21	51	000		1959			10
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C	M	36	22	00	118	51	00	900		1940			54
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T17S	R29E	Q	M	36	27	40	118	52	40	900		1909			54
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K	M	36	27	58	118	51	40	900		1940			54
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	P	M	36	37	00	120	14	07	000		1953			10
C0 9011-80	TRAVER 4 ESE	283	SEC 19	T17S	R24E	E	M	36	26	17	119	25	00	806		1962			54
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	M	36	54	05	119	17	16	905		1948			10
C0 9051	TULARE	293	SEC 01	T20S	R24E	N	M	36	12	45	119	19	50	004		1919			54
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A	M	36	04	41	119	47	33	002		1953			16
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B	M	35	09	00	119	01	00	900		1948			15
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	M	36	09	42	118	42	22	004		1910			54
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	M	36	08	07	118	47	15	004		1910			54
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E		M	36	22	00	118	17	00	900		1945			54
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	M	37	52	30	120	36	12	404		1958			05
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E		M	37	53	00	119	20	00	900		1947			55
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	M	37	29	28	120	51	00	900		1893			50
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	M	37	27	52	120	54	39	000		1958			50
B0 9073-02	TURLOCK 8 WSW	60	SEC 34	T05S	R09E	E	M	37	27	24	120	58	28	000		1958			50
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	M	35	53		118	39		900		1965			54
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	M	35	32	00	119	16	40	906		1922			15
B7 9162-80	UPPER CHIQUITO	6800	SEC 13	T05S	R23E	E	M	37	29	55	119	24	29	905		1962	1965		20
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E		M	37	22	00	118	59	00	900		1946			10
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M	M	35	50	24	119	05	12	004		1920			54
C1 9328	VIDETTE MEADOW	9500		T13S	R33E		M	36	45		118	25		901		1964			10
C0 9367	VISALIA	354	SEC 29	T18S	R25E		M	36	19	45	119	17	18	900		1903			54
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R24E	D	M	36	19	32	119	13	24	000		1959			54
C0 9452	WASCO	333	SEC 12	T27S	R24E	J	M	35	35	35	119	19	57	900		1899			15
B5 9482	WAWONA R S	3975	SEC 34	T04S	R21E	P	M	37	32		119	40		900		1941			22
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D	M	35	40	00	118	18	00	900		1940			15
C0 9535	WEST CAMP SLF	290	SEC 11	T24S	R19E	R	M	35	50	51	119	52	43	000		1959			16
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	M	37	26	58	119	38	59	905		1961			20
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	M	36	13	38	119	59	40	900		1925			10
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	M	37	33	00	121	12	00	000		1928			50

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1964-65

SAN JOAQUIN DISTRICT

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C5 9602	WET MEADOW	9200		T18S	R32E		M	36 22 00	118 32 00	900		1959			54
C0 9614-81	WHEELER RDE LWU A-12	1230	SEC 01	T10N	R20W	G	S	34 58 38	118 57 25	806		1963			15
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K	M	37 20 12	120 02 18	000		1950			22
C0 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D	M	35 36 10	119 45 10			1962			16
C1 9749	WISHON LAKE	6560	SEC 01	T11S	R27E		M	37 00 40	118 58 20	003		1957			10
C5 9754	WOFFORD HEIGHTS	2700	SEC 32	T25S	R33E	H	M	35 43 00	118 27 00	900	PN4527	1894			15
C1 9773	WOODCHUCK MEADOW	9200	SEC 27	T10S	R28E		M	37 02 00	118 54 00	900		1955			10
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	M	35 42 02	118 50 34	808	049805	1956			15
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E		M	37 45 00	119 35 00	900		1904			22

TABLE A-2

SEASONAL AND MEAN PRECIPITATION AT
SELECTED STATIONS IN THE SAN JOAQUIN VALLEY

Station	County	50-Year Mean 1915-1965 in Inches	1964-65 Season in Inches	1964-65 Season Percent of Mean
Panoche	San Benito	7.51	8.13	108
Coalinga 1 SE	Fresno	6.66	-	-
Kettleman Sta.	Kings	6.03	6.11	101
Buttonwillow	Kern	4.90	4.97	101
Maricopa	Kern	5.41	6.24	115
Manteca	San Joaquin	11.79	11.59	98
Modesto	Stanislaus	11.34	10.99	97
Turlock	Stanislaus	11.53	11.89	103
Merced F. S. 2	Merced	11.77	12.63	107
Madera	Madera	10.18	10.07	99
Fresno W.B. A.P.	Fresno	10.39	11.20	108
Visalia	Tulare	9.47	8.79	93
Hanford	Kings	7.87	7.48	95
Wasco	Kern	6.25	6.61	106
Bakersfield 1 W	Kern	6.32	6.58	104
Knights Ferry 2 SE	Stanislaus	17.30	24.13	139
Catheys Val Bull Run R.	Mariposa	19.17	24.41	127
Mariposa	Mariposa	28.73	36.15	126
Friant Gov't. Camp	Fresno	13.25	14.37	108
Lemon Cove	Tulare	13.28	14.57	110
Orange Cove	Fresno	12.70	13.56	107
Porterville	Tulare	10.36	12.50	121

TABLE A-3

ACCUMULATIVE MONTHLY PRECIPITATION

AT KEY STATIONS IN THE SAN JOAQUIN VALLEY

1964-65

Month	MODESTO			MERCED FS #2			MADERA			FRESNO WB AP			VISALIA			BAKERSFIELD 1 W		
	50-Year Mean 1915-65 in Inches	1964-65 Season in Inches	1964-65 Season in Percent of Mean	50-Year Mean 1915-65 in Inches	1964-65 Season in Inches	1964-65 Season in Percent of Mean	50-Year Mean 1915-65 in Inches	1964-65 Season in Inches	1964-65 Season in Percent of Mean	50-Year Mean 1915-65 in Inches	1964-65 Season in Inches	1964-65 Season in Percent of Mean	50-Year Mean 1915-65 in Inches	1964-65 Season in Inches	1964-65 Season in Percent of Mean	50-Year Mean 1915-65 in Inches	1964-65 Season in Inches	1964-65 Season in Percent of Mean
July	.01	.02	200	.00	.00	0	.01	.00	0	.00	.00	00	.00	.00	00	.00	.00	0
August	.04	.02	50	.01	.13	1300	.02	.12	600	.02	.25	1250	.02	T	00	.01	.01	0
September	.25	.32	128	.15	.13	87	.13	.12	92	.14	.25	178	.11	.43	391	.10	.20	200
October	.76	1.67	220	.66	1.80	273	.64	1.20	188	.52	1.48	285	.56	1.26	225	.47	.99	211
November	1.83	3.79	207	1.87	3.98	213	1.63	2.95	181	1.66	2.97	179	1.38	3.36	243	1.00	1.62	162
December	4.00	6.73	168	3.94	7.76	197	3.36	6.18	184	3.31	5.60	169	2.97	5.25	177	1.94	2.61	135
January	6.01	7.57	126	6.03	9.33	155	5.16	7.32	142	5.26	6.65	126	4.71	6.40	136	3.04	3.30	109
February	8.03	8.15	101	8.23	9.86	120	7.07	7.84	111	6.98	7.08	101	6.54	6.61	101	4.14	3.46	84
March	9.73	9.46	97	10.09	10.53	105	8.72	8.48	97	8.66	9.46	109	8.10	6.83	84	5.17	4.50	87
April	10.81	10.99	102	11.26	12.62	112	9.75	10.07	103	9.95	11.20	112	9.07	8.79	97	5.94	6.58	111
May	11.25	10.99	98	11.67	12.63	108	10.11	10.07	100	10.33	11.20	108	9.41	8.79	93	6.26	6.58	105
June	11.34	10.99	97	11.77	12.63	107	10.18	10.07	99	10.39	11.20	108	9.47	8.79	93	6.32	6.58	104

TABLE A-4

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation in Inches																
	Total July 1 To June 30	1964						1965									Total Oct. 1 To Sept. 30
		July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept.	
SAN JOAQ R BASIN																	
SAN JOAQ VAL FL																	
ATWATER CRAIG	12.53E	0.00E	0.00	0.16	1.68	2.02	3.32	1.17	0.74	0.70	2.74	0.00	0.00	0.00	0.26	0.00	12.63
CASTLE AFB	11.72	0.00	0.12	0.00	1.40	2.08	3.51	1.00	0.61	1.31	1.69	T	0.00	0.00	0.20	0.00	11.80
DELTA RANCH	9.48	0.00	0.00	0.14	1.65	1.22	2.42	0.79	0.38	0.72	2.16	0.00	0.00	0.00	0.20	0.00	9.54
DENAIR 3 NNE	14.22	T	0.23	T	1.98	2.65	2.72	2.09	0.66	1.77	2.12	T	0.00	0.00	0.65	0.00	14.64
EL SOLYO RCH	10.50	0.01	0.25	0.00	1.25	1.52	2.05	0.88	0.44	1.15	2.95	0.00	0.00	N	N	N	N
ESCALON SWANSON	14.54	0.00	0.00	0.24	1.44	2.56	3.99	1.53	0.57	1.30	2.91	0.00	0.00	N	N	N	N
FANCHER RCH CAMP 3	14.20	0.00	0.00	0.00	1.33	3.33	4.20	1.59	0.65	1.08	2.02	0.00	0.00	N	N	N	N
FIREBAUGH 9 W	6.71	0.00	0.06	1.00	1.14	1.11	1.54	0.44	0.12	1.06	1.24	0.00	0.00	N	N	N	N
GUSTINE 5 SW	11.85	0.00	0.19	0.00	2.00	1.21	3.47	1.20	0.46	0.42	2.82	0.08	0.00	T	0.27	T	11.93
GUSTINE SNYDER	13.13	0.00	0.00	0.20	2.56	1.35	3.33	1.45	0.47	0.86	2.91	0.00	0.00	N	N	N	N
GUSTINE AVOSET	10.62	0.00	0.25	0.00	1.68	1.41	2.70	1.11	0.44	1.15	1.88	0.00	0.00	0.00	0.25	0.00	10.62
GUSTINE 7 SSW	10.46	0.00	0.23	0.00	1.47	1.21	2.91	1.23	0.39	0.91	2.05	0.06	0.00	N	N	N	N
HILMAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KNIGHTS FERRY 2 ESE	24.13	0.00	0.19	0.00	1.74	2.71	7.74	2.24	0.98	4.50	4.02	0.01	0.00	T	0.74	0.02	24.68
LE GRAND	14.40	0.00	0.12	0.04	1.35	2.17	4.89	1.51	0.58	1.84	1.90	T	0.00	T	T	0.00	14.28
LE GRAND 6 N	14.82	0.00	0.14	0.00	1.20	3.27	4.71	1.37	0.58	1.37	2.18	0.00	0.00	N	N	N	N
LIVINGSTON 5 W	10.54	0.00	T	0.16	1.80	0.92	2.58	1.64	0.68	0.49	2.27	0.00	0.00	0.00	0.43	0.00	10.81
LOS BANOS 5 S	7.65	0.00	0.00	0.12	1.36	0.78	2.09	0.54	0.37	0.70	1.69	0.00	0.00	0.00	0.31	0.00	7.84
LOS BANOS FIELD STA	8.58	0.00	0.00	0.24	1.35	0.86	2.24	0.63	0.31	0.91	2.01	0.03	0.00	0.00	0.11	0.00	8.45
LOS BANOS	10.71	0.00	0.00	0.24	2.69	1.08	2.76	0.75	0.37	0.74	2.08	T	0.00	0.00	0.28	0.00	10.75
MADERA ID YARD	9.12	T	0.11	0.00E	1.09	1.41	2.76	1.05	0.40	0.48	1.82	T	0.00	0.00	0.02	0.00	9.03
MADERA R S	10.07	0.00	0.12	0.00	1.08	1.75	3.23	1.14	0.52	0.64	1.59	0.00	0.00	0.00	0.07	0.00	9.98
MANTECA NO 2								NAME CHANGED SEE MANTECA									
MANTECA	11.59	0.00	0.06	0.23	1.38	2.08	3.25	1.37	0.36	1.28	1.58	T	0.00	0.08	0.24	T	11.62
MATTOS RANCH	8.35	0.00	0.00	0.12	1.27	0.89	2.28	0.57	0.38	0.68	2.16	0.00	0.00	0.00	0.31	0.00	8.54
MAZE BR 2 S		0.00	0.26	T	1.09	1.54	2.22	0.86	0.34	1.19	2.13	0.00	RE				-
MENDOTA 1 NNW	6.41	0.00	0.00	0.05	0.79	0.83	2.17	0.33	0.39	0.56	1.29	0.00	0.00	0.00	0.00	0.00	6.36
MENDOTA DAM	6.25	0.00	0.00	0.03	0.75	0.82	1.97	0.41	0.28	0.65	1.34	T	0.00	T	T	0.00	6.25
MERCED FIRE STN NO 2	12.63	0.00	0.13	0.00	1.67	2.18	3.78	1.57	0.53	0.67	2.09	0.01	0.00	0.00	0.49	0.00	12.99
MERCED S P	12.35	0.00	0.00	0.00	1.66	2.06	3.88	1.41	0.17	0.89	2.28	0.00	0.00	N	N	N	N
MERCED 5 SE	13.26	0.00	0.08	T	1.39	2.46	4.32	1.32	0.65	1.03	2.01	0.00	0.00	N	N	N	N
MERCED FANCHER RCH	12.69	0.00	0.00	0.11	1.36	2.73	3.68	1.30	0.66	0.83	2.02	0.00	0.00	N	N	N	N
MERCED 2	11.78	0.00	0.10	0.00	1.50	1.95	3.56	1.41	0.49	1.01	1.76	0.00	0.00	0.00	0.52	0.00	12.20
MODESTO	10.99	0.02	0.00	0.30E	1.35	2.12	2.94	0.84	0.58	1.31	1.53	T	0.00	0.01	0.74	0.03	11.45
MODESTO KTRB	10.56	0.02	0.01	0.31	1.37	1.82	2.88	0.88	0.54	0.86	1.87	T	0.00	0.01	0.70	0.04	11.00

TABLE A-4 (Cont.)

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation in Inches																	
	Total July 1 To June 30	1964						1965									Total Oct. 1 To Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
MODESTO 2	-	0.00	0.30	0.00	1.27	2.02	2.65	-	0.52	1.33	1.53	0.00	0.00	0.00	0.55	0.02	-
NEWMAN 2 NW	10.17	0.00	0.21	0.00	1.49	1.43	2.73	0.88	0.44	0.75	2.19	0.05	0.00	0.00	0.32	T	10.28
NEWMAN 1 SE	9.83E	0.00	T	0.18	1.38	1.12	2.73	1.02	0.39	0.87	2.23	0.01	RE				-
OAKDALE	15.96	0.00	T	0.25	1.71	2.61	5.10	1.43	0.63	1.50	2.73	T	0.00	0.00	0.94	T	16.61
OAKDALE WOODWARD DAM	13.47	0.00	0.00	0.25	1.30	2.52	3.92	1.20	0.52	1.55	2.21	0.00	T	0.00	0.62	0.04	13.88
ORESTIMBA	9.78	0.00	0.00	0.21	1.48	1.44	2.57	0.86	0.36	0.51	2.35	0.00	0.00	0.00	0.35	0.00	9.92
PANOCHE CREEK	5.45	0.00	0.04	0.00	0.87	0.74	1.38	0.23	0.33	0.66	1.17	0.03	0.00	0.00	0.04	0.00	5.47
PANOCHE WATER DIST	8.12E	T	0.11	0.00E	1.98	0.97	1.88	0.40	0.25	0.77	1.76	0.00	0.00	T	0.16	0.00	8.17
PATTERSON	10.29	0.00	0.02	0.22	1.48	1.42	2.02	1.01	0.51	0.82	2.77	0.02	0.00	N	N	N	N
POSO CANAL CO HDQ	7.95	0.00	0.00	0.03	1.06	1.94	2.06	0.50	0.29	0.46	1.61	0.00	0.00	0.00	0.12	0.00	8.04
RIPON	12.18	0.00	0.30	0.00	1.64	1.98	3.75	1.08	0.51	1.64	1.28	T	0.00	0.01	0.59	0.00	12.48
SAN JUAN HQ M & L	11.30E	0.00	0.00	0.05	2.44	1.55	2.90	0.86	0.52	0.78	2.20	0.00	0.00E	0.00	0.16	0.00	11.41E
SAN LUIS CANAL CO HQ	11.52	0.00	0.00	0.07	3.45	1.72	2.83	0.75	0.25	0.65	1.80	0.00	0.00E	0.00	0.14	0.00	11.59E
SO DOS PALOS	7.63	0.00	0.00	0.09	1.50	1.17	1.72	0.44	0.34	0.67	1.70	0.00	0.00	0.00	0.17	0.00	7.71
TURLOCK	11.82	T	T	0.17	1.55	1.95	2.64	1.75	0.64	1.14	1.98	T	0.00	T	0.52	T	12.17
TURLOCK 5 SW	12.29	0.00	0.20	0.00	1.50	1.45	2.95	1.88	0.61	1.50	2.20	T	0.00	N	N	N	N
TURLOCK 8 WSW	9.77	0.00	0.00	0.20	1.30	1.52	2.13	0.99	0.42	0.70	2.51	0.00	0.00	N	N	N	N
WESTLEY	10.26	0.00	0.10	0.17	1.45	1.40	1.74	0.81	0.34	1.16	3.09	0.00	0.00	0.00	0.00	0.00	9.99
STANISLAUS RIVER																	
BEARDSLEY DAM	43.31	T	T	0.34	2.08	7.40	17.93	5.90	1.34	2.44	5.27	0.32	0.29	T	1.47	0.60	45.04
CALAVERAS RANGER STA	61.57E	0.00	0.33	0.00	3.24	8.92E	26.18E	7.84	2.19	4.93	7.12	0.29	0.53	0.00	1.08	0.37	62.69E
COPPEROPOLIS	-	0.00	0.30	0.00	1.82	4.43	-	4.16	1.25	3.52	4.07	-	-	N	N	N	-
HUNTERS DAM	63.57	T	0.44	0.06	3.26	9.26	27.38	7.93	2.28	4.78	7.19	0.44	0.55	T	1.15	0.49	64.71
LAKE ALPINE	81.34	JULY 10, 1964 TO JULY 14, 1965															
MELONES DAM	37.37	T	0.00	0.73	2.68	4.64	12.87	3.87	1.89	4.05	6.64	T	0.00	0.00	0.51	0.07	37.22
PINECREST STRAWBERRY	51.69	0.00	0.40	0.15	2.08	8.38	20.51	7.69	1.64	2.65	6.34	0.96	0.89	0.00	2.26	0.71	54.11
PINECREST SUMMIT R S	-					RB	19.72	8.00	1.50	2.64	5.53	1.43	0.41	N	N	N	N
SPRING GAP FOREBAY	52.87	T	0.30	0.20	2.06	8.63	22.19	7.85	1.77	3.01	6.36	0.50	T	0.00	1.79	0.80	54.96
STANISLAUS P H	41.63	0.00	0.06	0.19	2.81	6.65	14.87	5.95	1.27	3.46	5.91	0.17	0.29	0.00	1.11	0.31	42.80
TULLOCH DAM	27.18	T	0.00	0.20	1.61	3.92	8.67	3.30	1.09	3.42	4.97	T	0.00	0.00	0.70	0.01	27.69
TUOLUMNE RIVER																	
BEEHIVE MEADOW	64.48	SEPTEMBER 15, 1964 TO AUGUST 8, 1965															
CHERRY VALLEY DAM	59.72	T	0.00	0.70	2.08	10.36	25.92	8.38	2.33	3.15	5.80	0.68	0.32	0.01	0.68	0.04	59.75
DON PEDRO RESERVOIR	22.49	0.00	0.16	0.00	2.06	3.40	7.66	2.44	1.32	1.93	3.52	0.00	0.00	T	0.76	0.01	23.10
EARLY INTAKE P H	39.78	T	0.00	0.40	2.06	6.66	15.46	5.63	1.57	2.92	4.62	0.40	0.06	N	N	N	N
GRACE MEADOW	50.42	SEPTEMBER 17, 1964 TO SEPTEMBER 12, 1965															

TABLE A-4 (Cont.)

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation in Inches																	
	Total July 1 To June 30	1964						1965									Total Oct. 1 To Sept. 30
		July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
GROVELAND 2	44.12	0.02	0.43	0.00	2.72	6.89	15.82	6.31	1.61	3.35	6.92	0.00	0.05	0.00	1.14	0.00	44.81
GROVELAND R S	44.21	0.00	0.00	0.48	2.67	7.49	14.59	7.94	1.75	3.16	5.94	0.16	0.03	0.00	0.85	0.00	44.58
HETCH HETCHY	41.61	T	T	0.49	1.85	7.21	16.64	5.33	2.17	2.58	4.27	0.56	0.51	0.97	3.41	0.49	45.99
HUCKLEBERRY LAKE	62.96						SEPTEMBER 20, 1964 TO SEPTEMBER 17, 1965										
LAKE ELEANOR	44.07	0.00	0.28	0.32	1.77	8.10	18.20	5.00	2.10	3.30	3.60	1.00	0.40	0.30	3.00E	0.10	46.87E
LOWER KIBBY RIDGE	74.10						SEPTEMBER 24, 1964 TO AUGUST 21, 1965										
MATHER	-	0.04	0.25	0.26	2.10	6.68	14.49	5.81	1.69	2.48	3.71	-	0.07	0.52	2.68	T	-
MOCCASIN	32.81	T	T	0.33	2.40	5.62	10.68	4.18	1.14	2.21	6.24	0.01	T	N	N	N	N
PARADISE MEADOW	68.14						SEPTEMBER 15, 1964 TO AUGUST 6, 1965										
PRIEST	34.91	T	0.00	0.42	2.74	5.84	11.47	5.02	1.33	2.28	5.78	0.03	T	N	N	N	N
SACHES SPRINGS	68.30						SEPTEMBER 23, 1964 TO AUGUST 20, 1965										
SONORA R S	38.43	T	T	0.32	2.60	5.92	14.23	4.23	1.82	3.57	5.62	0.05	0.07	T	0.65	0.11	38.87
TUOLUMNE MEADOWS	38.82						JULY 14, 1964 TO JULY 13, 1965										
MERCED RIVER																	
BADGER PASS	57.80						APRIL 12, 1964 TO APRIL 18, 1965										
BAGBY	30.10	T	0.21	0.00	2.43	5.32	8.88	4.97	1.07	2.00	5.12	0.10	0.00	T	0.42	0.00	30.31
BEAR VALLEY	32.40	0.00	0.38	0.00	2.19	6.04	10.00	4.75	1.32	2.60	5.03	0.09	0.00	N	N	N	N
CATHEYS VALLEY 3 NNW	27.83	0.00	0.43	0.00	2.60	4.10	9.60	3.95	1.30	1.70	4.15	0.00	0.00	N	N	N	N
COULTERVILLE FFS	36.57E	T	0.50	0.00E	2.75	6.44	13.23	3.53	1.44	2.84	5.84	T	0.00	0.00	0.71	0.00E	36.78E
DUDLEYS	49.82	0.01	0.38	0.08	3.02	8.15	17.00	7.23	1.71	3.36	8.78	0.07	0.03	T	0.64	T	49.99
EXCHEQUER RESERVOIR	21.27	0.00	0.31	0.01	1.71	3.85	6.58	2.78	0.72	1.46	3.85	0.00	0.00	0.00	0.00	0.00	20.95
HORNITOS ERICKSON RH	25.77	0.00	0.35	0.00	1.98	4.57	7.08	3.91	1.23	1.81	4.84	0.00	0.00	N	N	N	N
HORNITOS GILES RCH	22.13	T	0.32	0.00	1.75	4.08	6.14	3.49	1.12	1.78	3.45	T	0.00	T	0.35	0.00	22.16
HORNITOS USCE	-	-	-	-	1.62	3.93	5.91	3.12	0.88	1.68	3.12	-	-	N	N	N	N
INDIAN GULCH	22.41	0.00	0.28	0.00	1.91	3.93	6.49	3.07	0.95	1.66	4.12	0.00	0.00	N	N	N	N
JERSEYDALE G S	51.18	0.00	0.13	0.67	3.24	9.93	20.15	8.84	2.05	4.27	*	V 1.90	T	N	N	N	N
MARIPOSA	36.15	0.00	0.00	0.34	2.74	6.40	12.87	4.32	1.47	2.29	5.72	0.00	0.00	0.00	0.12	0.00	35.93
MARIPOSA REYNOLDS	39.27	0.00	0.00	0.24	2.70	6.36	14.28	5.00	1.67	2.29	6.73	0.00	0.00	N	N	N	N
MARIPOSA CIR 9 RCH	-	0.00	0.55	0.00	3.56	8.78	16.67	RE									
MARIPOSA R S	37.21	0.00	0.30	0.01	2.83	6.55	12.80	5.13	1.50	2.78	5.31	0.00	0.00	N	N	N	N
MC DIERMID STA	44.77	0.00	0.42	0.00	3.21	8.31	11.17	9.95	1.90	3.77	5.98	0.06	0.00	N	N	N	N
OSTRANDER LAKE	61.75						JULY 17, 1964 TO AUGUST 30, 1965										
SNOW FLAT	62.05						JULY 14, 1964 TO JULY 13, 1965										
SO ENTRANCE YOSEMITE	57.55	0.01	0.48	0.48	3.15	10.03	17.85	11.47	2.46	3.04	7.02	1.16	0.40	0.03	0.20	0.02	56.83
WAWONA R S	46.28	0.00	0.45	0.00	2.72	8.25	14.86	8.59	1.75	3.28	5.43	0.60	0.35	0.14	-	0.00	-
YOSEMITE NAT PARK	46.77	0.10	0.30	0.12	2.35	8.61	19.54	5.84	1.86	2.50	4.32	0.69	0.54	0.70	0.31	0.12	48.38

TABLE A-4 (Cont.)

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation In Inches																	
	Total July 1 To June 30	1964						1965									Total Oct.1 To Sept.30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
FRESNO-CHOWCHILLA R																	
AHWAHNEE 2 NNW	35.23	T	T	0.43	2.34	6.57	11.33	4.44	1.16	2.67	6.14	0.12	0.03	0.00	0.05	0.00	34.85
BIG CEDAR SPRINGS	-			RB	2.82E	7.17	12.41	7.71	1.72	3.54	4.79	0.15	0.21	0.00	0.09	0.00	40.61E
CATHEYS VAL BULLRUN R	24.41	T	0.00	0.25	1.62	4.81	8.42	2.97	0.97	1.72	3.61	0.04	0.00	0.00	0.05	0.00	24.21
CATHEYS VALLEY SAWYER	25.59	T	0.27	0.00	1.65	4.31	8.38	3.43	0.96	2.13	4.40	0.06	0.00	0.00	0.24	T	25.56
CATHEYS VAL STONHOUSE	23.28	0.00	0.33	0.00	1.98	4.14	7.73	2.96	0.92	2.01	3.20	0.01	0.00	T	0.12	0.00	23.07
COARSEGOLD	32.63	T	0.02	0.36	2.27	5.81	9.66	4.35	1.17	3.10	5.86	0.03	T	N	N	N	N
DAULTON	16.58	0.00	0.16	0.00	1.40	2.80	5.07	1.90	0.85	1.90	2.50	0.00	0.00	N	N	N	N
HIDDEN VALLEY	35.24	0.00	0.00	0.27	2.97	8.02	9.52	5.92	1.18	2.24	5.12	0.00	0.00	T	0.00E	0.21	35.18E
LUSHMEADOW RCH	44.99	0.01	0.46	0.00	3.07	11.33	11.17E	9.43	1.47	4.11	8.85	0.09	0.00	0.00	0.35	RE	-
MARIPOSA 8 ESE	42.72	0.00	0.00	0.36	3.18	8.03	15.18	5.30	1.26	2.62	6.70	0.09	T	0.00	0.24	0.00	42.60
OAKHURST	35.33	T	0.39	0.00	2.66	6.42	10.38	5.51	1.19	2.69	5.96	0.13	0.00	-	-	0.00	-
RAYMOND 3 SSW	15.90	0.00	0.00	0.25	1.60	3.30	3.40	2.05	0.55	1.60	3.15	0.00	0.00	N	N	N	N
RAYMOND 10 N	30.79	0.00	0.00	0.00	2.43	6.45	9.53	4.19	0.97	2.26	4.81	0.15	0.00	N	N	N	N
RAYMOND 9 N	25.20	0.00	0.23	0.00	2.31	4.86	7.80	2.74	0.97	1.94	4.35	0.00	0.00	-	-	RE	-
RAYMOND 12 NNE	28.79	0.00	0.26	0.00	3.13	4.95	9.48	2.73	0.82	2.88	4.45	0.14	0.00	0.00	0.23	0.00	28.76
ROCK VILLAGE	23.50	0.00	0.30	0.00	1.75	4.01	8.14	2.66	1.12	2.07	3.45	0.00	0.00	N	N	N	N
WESTFALL R S	66.64	0.00	T	0.87	3.75	8.71	26.31	9.63	1.49	4.34	9.45	1.80	0.29	N	N	N	N
WHITE ROCK PRESTON	-	-	-	-	1.33M	3.72	6.67	2.30	0.82	2.06	2.96	-	-	N	N	N	-
SAN JOAQUIN RIVER																	
AUBERRY 1 NNE	27.39	0.07	0.34	0.27	1.98	4.62	5.84	4.82	1.47	3.05	4.71	0.22	0.00	0.08	0.15	0.00	26.94
BIG CREEK PH 1	36.61	0.05	0.48	0.45	2.68	5.29	9.88	6.70	1.76	3.24	5.13	0.84	0.11	0.08	0.48	0.00E	36.19E
BIG CREEK PH 2	34.30	0.01	0.39	0.42	2.37	5.49	10.22	5.90	1.56	3.27	4.12	0.38	0.17	0.00	0.09	0.00E	33.57E
BIG CREEK PH 3	31.52	0.02	0.29	0.52	2.62	5.05	8.04	5.09	1.37	2.99	5.23	0.09	0.21	0.00	0.04	0.00E	30.73E
BIG CREEK PH 8	32.79	0.02	0.41	0.39	1.94	5.25	10.46	4.76	1.38	2.88	4.90	0.22	0.18	T	0.07	0.00E	32.04E
CHIQUITO CREEK	59.16	JULY 13, 1964 TO JULY 12, 1965															
CLOVER MEADOW G S	50.66	JULY 13, 1964 TO JULY 12, 1965															
CRANE VALLEY PH	46.86	T	0.19	0.56	2.71	8.46	14.11	8.87	1.50	4.02	5.94	0.50	0.00	T	0.11	0.03	46.25
FLORENCE LAKE	29.99	1.36	1.84	0.10	1.44	4.63	8.85	4.38	1.03	0.96	3.22	0.80	1.38	1.51	2.29	0.51	31.00
FRIANT GOVERNMENT CP	14.37	0.00	0.00	0.25	1.46	2.24	3.37	1.73	0.32	1.63	3.36	0.01	0.00	0.00	0.01	0.00	14.13
HUNTINGTON LAKE	50.51	0.03	0.96	0.05	2.47	9.25	15.49E	8.49	2.02	3.86	6.37	1.19	0.23	0.34	0.67	0.51	50.99
KAISER MEADOWS	48.33	JUNE 23, 1964 TO JULY 7, 1965															
MAMMOTH POOL	38.20	JUNE 24, 1964 TO JULY 28, 1965															
MEADOW LAKE	33.57	0.06	0.00	0.93	2.14	4.86	7.40	6.27	1.44	3.71	6.71	0.03	0.02	T	0.09	0.00	32.67
MOUNTAIN REST FFS	-	0.04	0.25	0.63	2.77	6.67	9.89	7.71	1.51	3.86	RE						
MT GIVENS	-						RB	2.70	2.20	1.40	2.10	1.00	0.80	N	N	N	N
NORTH FORK R S	42.19	0.02	0.02	0.00	2.44	6.90	12.82	7.75	1.73	3.86	6.44	0.12	0.09	T	0.00	T	42.15
ROSE MARIE MEADOW	44.05	JUNE 24, 1964 TO JUNE 28, 1965															
SAN JOAQUIN EXP RGE	19.41	0.00	0.25	0.00	1.76	3.20	5.38	2.82	0.57	1.99	3.42	0.02	0.00	0.00	0.02	0.00	19.18
VERMILLION VALLEY	27.74	JUNE 23, 1964 TO JULY 7, 1965															

TABLE A-4 (Cont.)

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation in Inches																	
	Total July 1 To June 30	1964						1965									Total Oct. 1 To Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	
SAN JOAQ VAL WESTSIDE																	
CASTLE ROCK RAD LAB	12.07	T	0.20	0.07	1.60	2.37	2.52	1.95	0.43	0.92	1.99	0.02	0.00	0.03	0.37	0.00	12.20
DEL PUERTO ROAD CAMP	16.75	0.00	0.34	0.00	1.22	2.02	4.45	1.90	0.62	1.32	4.88	0.00	0.00	0.00	0.24	0.00	16.65
IDRIA	14.56	0.00	0.14	0.00	1.47	2.38	2.91	2.12	0.49	2.53	2.52	T	0.00	0.07	0.05	0.00	14.54
KERLINGER	8.47	0.05	0.05	0.00	0.89	1.25	1.67	1.13	0.49	1.10	1.84	0.00	0.00	0.26	0.26	0.00	8.89
LONE TREE CANYON	6.34	0.00	0.17	0.00	0.90	1.18	1.80	0.95	0.15	1.04	0.15	0.00	0.00	0.20	0.24	0.00	6.61
LOS BANOS ARBURUA	8.78	0.00	0.11	0.00	0.97	1.12	1.88	0.75	0.36	1.22	2.37	T	0.00	0.00	0.07	0.00	8.74
MERCY HOT SPRINGS	8.00	0.00	0.19	0.00	0.99	1.02	2.12	0.76	0.00	1.08	1.84	0.00	0.00	0.01	0.06	0.00	7.88
PACHECO PASS	14.14	0.00	0.27	0.00	1.29	1.94	4.48	1.96	0.42	1.80	1.93	0.05	0.00	0.00	0.25	0.00	14.12
PANOCHE	8.13	T	0.17	0.00	0.82	1.27	1.83	0.86	0.26	1.43	1.49	T	0.00	T	0.02	0.03	8.01
PANOCHE 2 W	9.66	0.00	0.00	0.00	0.90	1.82	2.42	1.09	0.27	1.50	1.66	0.00	0.00	N	N	N	N
PFEIFFER RCH	23.50	0.00	0.31	0.00	1.03	3.88	7.98	2.81	0.66	3.62	3.14	0.07	0.00	0.00E	0.13	0.00	23.68
SAN LUIS DAM	10.61	0.00	0.04	0.27	1.33	1.11	3.06	1.29	0.50	0.79	2.18	0.04	0.00	0.00	0.16	0.00	10.46
TULARE LAKE BASIN																	
TULARE LAKE VAL FL																	
ACADEMY	14.50	0.00	0.30	0.00	0.98	2.10	3.73	1.55	0.81	2.40	2.63	0.00	0.00	0.00	0.00	0.00	14.20
ANGIOLA	6.97	0.00	0.11	0.17	0.76	0.73	1.13	0.79	0.28	0.69	2.31	0.00	0.00	0.02	0.32	0.05	7.08
ARVIN	4.70	0.00	0.00	0.00	0.56	0.65	1.22	1.00	0.52	0.75	0.00	0.00	0.00	0.28	0.00	0.00	4.98
ARVIN FRICK	6.12	T	0.08	0.00	0.56	0.66	1.44	0.68	0.26	0.84	1.60	0.00	0.00	0.32	0.25	0.10	6.71
AVENAL WALDEN	6.10	T	0.00	0.20	1.04	0.69	0.71	0.87	0.22	0.71	1.64	0.02	0.00	0.16	0.00	0.00	6.06
BAKERSFIELD 1 W	6.58	T	0.01	0.19	0.79	0.63	0.99	0.69	0.16	1.04	2.08	0.00	0.00	0.35	0.01	0.04	6.78
BAKERSFIELD WB AP	5.75	T	0.17	T	0.67	0.46	0.70	0.74	0.17	1.17	1.65	0.02	T	0.30	T	0.10	5.98
BELLEVUE	5.86	T	0.04	0.12	0.86	0.54	0.81	0.80	0.03	0.99	1.67	0.00	0.00	0.46	0.13	0.06	6.35
BLACKWELLS CORNER	-	0.04	0.25	0.00	0.87	0.29	0.84	0.62	0.07	1.34	0.61	-	-	-	-	-	-
BUENA VISTA RCH	6.25	0.00	0.03	0.12	0.70	0.64	0.66	1.15	0.08	0.64	2.23	0.00	0.00	0.84	0.05	0.05	7.04
BUENA VISTA RCH M&L	4.67	0.00	0.20	0.00	0.83	0.45	0.71	0.62	0.00	0.42	1.44	0.00	0.00	N	N	N	N
BUENA VISTA RCH M&L2	4.94	0.00	0.16	0.00	0.89	0.42	0.69	0.75	0.00	0.47	1.56	0.00	0.00	N	N	N	N
BUTTONWILLOW	4.97	0.00	0.01	0.24	0.63	0.35	0.63	0.60	0.21	0.54	1.76	0.00	0.00	0.69	0.05	0.09	5.55
CANFIELD RANCH	5.52	0.00	0.03	0.45	0.80	0.55	0.57	0.87	0.01	0.82	1.42	0.00	0.00	0.57	0.19	0.10	5.90
CANTUA RCH	6.38	0.00	0.00	0.00	0.90	0.90	0.90	0.30	0.65	0.50	2.23	0.00	0.00	N	N	N	N
CARUTHERS 4 E	7.79	0.00	0.00	0.28	1.25	1.06	2.22	0.97	0.41	0.23	1.37	0.00	0.00	0.05	0.03	0.00	7.59
CITRUS	8.02	T	T	0.08	0.67	0.43	1.01	1.50	0.91	0.90	2.52	0.00	0.00	0.91	0.12	0.38	9.35
COALINGA	6.96	0.00	0.12	0.40	0.73	0.82	1.15	0.61	0.23	0.94	1.96	0.00	0.00	0.11	T	T	6.55
COALINGA 1 SE	-	0.00	0.15	0.00	0.66	0.66	0.79	0.46	-	0.81	1.75	0.00	0.00	0.10	0.00	0.00	-
COALINGA CDF	5.55	0.00	0.00	0.13	0.63	0.78	0.84	0.54	0.06	0.68	1.89	0.00	0.00	0.08	T	0.00	5.50
COALINGA FEED YRD 1N	-	0.00	-	-	0.86	0.78	0.73	0.32	0.17	1.18	1.86	0.00	0.00	-	0.00	0.00	-
COIT RANCH HDQ	5.74	0.00	0.00	0.00	0.86	0.63	1.50	0.24	0.33	0.89	1.29	0.00	0.00	N	N	N	N
CORCORAN IRRIG DIST	5.51	0.00	0.00	0.30	0.76	0.84	0.78	0.89	0.34	0.19	1.41	0.00	0.00	0.01	0.00	0.05	5.25
CORCORAN EL RICO 1	5.81E	0.00	0.00	0.33E	0.79	0.66	0.91	0.87	0.28	0.22	1.75	0.00	0.00	0.00	0.00	0.00	5.48
CORCORAN EL RICO 33	7.10	0.00	0.00	0.34	0.91	0.98	1.20	1.03	0.22	1.09	1.33	0.00	0.00	N	N	N	N

TABLE A-4 (Cont.)

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation In Inches																	
	Total July 1 To June 30	1964						1965									Total Oct. 1 To Sept. 30
		July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
DELANO	7.42	T	0.00	0.00	0.66	1.08	0.76	0.52	0.04	1.34	3.02	0.00	0.00	0.00	0.17	0.05	7.26
DEVILS DEN SLF	6.65	T	0.00	0.26	1.28	0.81	0.72	1.04	0.20	1.00	1.34	T	0.00	0.42	0.00	0.06	6.87
DIGIORGIO	6.01	0.00	0.06	0.00	0.54	0.68	1.01	0.58	0.32	0.86	1.96	0.00	0.00	0.14	0.05	0.15	6.29
DINUBA ALTA ID	10.25	0.00	0.48	0.00	0.88	1.58	2.52	1.72	0.34	1.02	1.71	0.00	0.00	0.00	0.11	0.27	10.15
EIGHTH STAND RCH	5.51	0.00	T	0.10	0.71	0.34	0.72	0.96	0.44	0.57	1.67	0.00	0.00	0.70	0.26	0.30	6.67
EXETER FAUVER RANCH	11.20E	0.00	0.18E	0.01E	1.06	1.58	3.19	1.81	0.24	1.03	2.10	0.00	0.00	0.00	0.04	-	-
FIVE POINTS 5 SSW	5.24E	0.00	0.15	0.00	0.91	0.89	0.76	0.33	0.32	0.59	1.29	0.00	0.00E	0.04	-	-	-
FIVE POINTS DIENER	4.44	0.00	0.15	0.00	0.81	0.60	0.59	0.19	0.22	0.44	1.44	T	0.00	T	T	0.04	4.33
FRESNO WB AP	11.20	T	0.25	0.00	1.23	1.49	2.63	1.05	0.43	2.38	1.74	T	T	T	0.02	0.00	10.97
FRESNO CO WESTSIDE FD	5.94	0.00	0.13	0.03	1.32	0.50	0.88	0.27	0.17	1.06	1.58	0.00	0.00	0.10	T	0.01	5.89
GIN YARD	4.75	0.00	0.13	0.00	0.80	0.30	0.65	0.51	0.00	0.75	1.61	0.00	0.00	N	N	N	N
HANFORD	7.48	0.00	0.34	0.00	0.95	1.31	1.44	1.18	0.33	0.33	1.60	0.00	0.00	0.00	0.05	0.07	7.26
HANFORD WELL #21	-		RB	0.00	0.93	1.43	1.43	0.87	0.26	0.53	1.16	0.00	0.00	0.00	0.00	0.07	6.68
HOMELAND DIST SEC 9	7.88	0.00	0.00	0.30	0.84	1.23	1.18	0.93	0.27	1.02	2.11	0.00	0.00	N	N	N	N
HOMELAND DIST SEC 34	7.87	0.00	0.00	0.28	0.79	1.37	1.35	0.75	0.23	0.93	2.17	0.00	0.00	N	N	N	N
HURON RANCH	6.52	0.00	0.00	0.00	1.42	0.69	0.71	0.48	0.53	0.33	2.36	0.00	0.00	N	N	N	N
KERMAN 2 ESE	-	0.00	0.13	0.00	0.88	1.12	2.09	RE									
KETTLEMAN CITY 1 SSW	6.50	T	0.00	0.17	1.21	0.58	0.78	0.87	0.20	0.88	1.81	T	0.00	0.11	0.00	0.00	6.44
KETTLEMAN HILLS	6.31	0.00	0.24	0.00	1.05	0.51	0.85	0.69	0.27	1.37	1.33	0.00	0.00	0.18	0.00	0.03	6.28
KETTLEMAN STATION	6.11	0.00	0.20	0.00	1.15	0.66	0.71	0.45	0.29	1.34	1.31	0.00	0.00	0.17	T	0.08	6.16
LINDSAY	12.50	0.00	0.40	0.05	1.14	2.73	2.62	1.58	0.27	0.80	2.91	0.00	T	0.05	0.03	0.24	12.37
LOST HILLS	6.05	0.00	0.17	0.00	0.77	0.76	0.57	0.40	0.45	1.41	1.52	0.00	0.00	0.80	0.00	0.02	6.68
MAGUNDEN	6.68	0.00	0.01	0.12	0.54	0.66	1.23	0.62	0.15	1.49	1.86	0.00	0.00	0.28	0.03	0.09	6.95
MENDOTA MURIETTA RCH	5.20	0.00	0.03	0.00	0.77	0.48	1.16	0.21	0.52	0.96	1.07	0.00	0.00	0.00	0.00	0.00	5.17
MENDOTA HALFWAY PUMP	4.19	T	0.00	0.04	0.59	0.55	1.02	0.24	0.28	*	V 2.19E	0.00	0.00	0.02	0.00	0.00	4.17
MENDOTA VDL FARMS	-	-	-	-	-	-	-	-	-	0.14	0.90	1.21	-	N	N	N	-
MOODY RANCH	6.20	0.00	T	0.05	0.62	0.50	0.92	1.00	0.51	0.73	1.87	0.00	0.00	0.50	0.12	0.51	7.28
NORTH BELRIDGE	5.39	T	0.38	0.00	0.80	0.43	0.77	0.45	0.51	1.20	0.85	0.00	0.00	0.52	0.34	0.01	5.88
OILFIELDS F S	6.81	0.00	0.04	0.08	0.91	1.33	1.03	0.42	0.31	0.91	1.78	0.00	0.00	N	N	N	N
ORANGE COVE	13.56	0.00	0.04	0.48	1.07	1.97	3.80	1.83	0.26	0.80	3.31	0.00	0.00	0.00	0.03	0.07	13.14
PALOMA RANCH	5.77	0.00	0.15	0.00	0.89	0.42	0.82	0.54	0.40	0.89	1.66	0.00	0.00	N	N	N	N
POND 1 N	7.56	0.00	0.25	0.00	0.80	0.87	1.06	0.84	0.25	1.25	2.24	0.00	0.00	0.00	0.22	0.06	7.59
PORTERVILLE	12.50	0.00	T	0.41	1.32	2.05	1.88	1.80	0.19	1.08	3.77	0.00	T	0.10	0.05	0.16	12.40
PORTERVILLE 3 W	10.20	0.00	0.00	0.41	1.30	1.47	1.71	1.43	0.10	0.72	3.06	0.00	0.00	0.00	0.27	0.08	10.14
POSO RCH	6.78	0.00	0.12	0.20	0.71	0.76	0.85	0.64	0.22	1.06	2.22	0.00	0.00	0.10	0.08	0.02	6.66
RECTOR	9.10	0.00	0.24	0.22	0.86	1.69	2.42	1.23	0.14	0.43	1.87	0.00	0.00	T	0.00	0.07	8.71
REEDLEY MVFD	10.90	0.00	0.46	0.00	1.11	1.47	2.76	1.51	0.22	1.15	2.22	T	0.00	T	0.02	0.88	11.34
RIVERDALE	6.46	0.00	0.13	0.00	1.16	1.10	1.40	0.55	0.31	0.83	0.98	0.00	0.00	0.00	0.00	0.00	6.33
ROSEDALE	5.16	0.00	0.03	0.24	0.72	0.55	0.56	0.74	0.05	0.89	1.40	0.00	0.00	0.30	0.08	0.04	5.31
SAN EMIGDIO RCH	8.02	0.00	0.09	0.13	0.73	0.43	0.45	1.74	0.91	0.67	2.87	0.00	0.00	0.32	0.10	0.03	8.25

TABLE A-4 (Cont.)

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation In Inches																	
	Total July 1 To June 30	1964						1965									Total Oct. 1 To Sept. 30
		July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
SANGER 1 NE	11.63	0.00	0.07	0.41	1.05	2.19	3.13	1.55	0.41	0.81	2.01	T	0.00	T	T	0.38	11.53
SANGER R S	11.55	0.00	0.00	0.38	1.07	2.16	3.14	1.43	0.41	0.95	2.01	0.00	0.00	N	N	N	N
SAN JOAQUIN	4.95	0.00	0.03	0.00	0.73	0.66	1.17	0.29	0.35	0.20	1.52	0.00	0.00	N	N	N	N
SAN JOAQUIN MVFD	6.08	0.00	0.00	0.02	1.40	0.40	1.11	0.20	0.27	1.34	1.34	0.00	0.00	0.02	0.00	0.00	6.08
SANTIAGO RANCH M&L	5.93	0.15	0.00	0.00	0.84	0.23	0.81	0.83	0.41	0.70	1.96	0.00	0.00	N	N	N	N
SOUTH BELRIDGE	4.75	T	0.23	0.00	0.76	0.22	0.72	0.43	0.36	1.21	0.82	T	0.00	0.54	0.20	0.00	5.26
SOUTH LAKE FARMS HDQ	7.40	T	0.00	0.30	0.89	0.71	1.83	0.76	0.18	0.67	2.06	0.00	0.00	0.03	0.01	0.00	7.14
STEVENSON DIST SC 33	7.01	0.00	0.00	0.34	0.84	0.85	0.90	1.02	0.35	1.06	1.65	0.00	0.00	N	N	N	N
TEJON RANCHO	10.30	0.00	0.23	0.00	0.81	0.84	2.02	1.74	0.89	0.71	3.06	0.00	0.00	–	0.00	0.82	–
TRANQUILLITY GLOTZ	5.94	0.00	0.00	0.01	1.40	0.81	1.10	0.27	0.28	0.52	1.55	0.00	0.00	0.00	T	0.00	5.93
TRAVER 4 ESE	8.90	0.00	0.47	T	0.74	1.41	2.25	1.40	0.24	0.70	1.68	0.00	0.00	T	0.02	0.02	8.47
TULARE	7.33	0.00	0.44	0.00	0.81	1.28	1.28	1.11	0.22	0.30	1.89	0.00	0.00	0.09	0.02	0.01	7.01
TULARE DIST SEC 27	7.01	0.00	0.00	0.32	0.83	1.65	0.99	0.84	0.25	0.27	1.40	0.00	0.00	N	N	N	N
TULEFIELD	5.53	0.00	0.00	0.08	0.61	0.42	0.90	0.83	0.27	0.73	1.69	0.00	0.00	0.23	T	0.55	6.23
U S COTTON FIELD STA	6.72	0.01	0.05	0.25	0.65	0.49	1.09	0.67	0.26	0.93	2.32	0.00	0.00	0.31	0.00	0.03	6.75
VESTAL	8.61	0.00	0.00	0.30	0.88	0.77	1.05	1.14	0.23	1.25	2.99	T	0.00	0.04	0.03	0.21	8.59
VISALIA	8.79	0.00	T	0.43	0.83	2.10	1.89	1.15	0.21	0.22	1.96	0.00	0.00	0.00	T	0.10	8.46
VISALIA 4 E	9.72	0.00	0.28	0.40	0.67	1.80	2.43	1.30	0.18	0.50	2.16	0.00	0.00	N	N	N	N
WASCO	6.61	0.02	0.09	0.16	0.65	0.73	0.91	0.58	0.25	0.95	2.2	0.00	0.00	0.22	0.00	0.03	6.59
WEST CAMP SLF	7.30	T	0.00	0.23	1.13	0.82	1.00	1.02	0.21	1.03	1.86	0.00	0.00	0.42	0.0	0.00	7.49
WESTHAVEN	5.69	0.00	0.00	0.16	0.84	0.70	0.49	0.69	0.47	0.23	2.11	0.00	0.00	0.03	T	0.00	5.56
WHEELER RDE LWU A-122	8.53	0.00	0.43	0.00	0.00	1.03	1.29	1.48	0.98	0.61	2.71	0.00	0.00	N	N	N	N
WILBUR DITCH	6.82	T	0.00	0.16	0.86	0.73	1.29	0.83	0.85	0.91	1.86	0.00	0.00	N	N	N	N
KINGS RIVER																	
BALCH POWER HOUSE	34.85	0.03	0.18	0.66	1.92	5.87	9.91	5.68	1.38	2.54	6.38	0.25	0.05	T	0.15	0.56	34.69
BARTON FLAT	27.85	AUGUST 10, 1964 TO SEPTEMBER 7, 1965															
BLASINGAME	23.51	0.00	0.48	0.00	1.50	4.34	5.06	3.91	0.93	2.46	4.98	0.00	0.00	0.04	0.38	0.00	23.4[illegible]
BRETZ MILL	45.65	0.00	0.00	0.55	6.16	3.51	16.18	6.18	1.88	3.67	7.40	0.12	0.00	N	N	N	N
DUSY BENCH	33.83	AUGUST 26, 1964 TO AUGUST 27, 1965															
GRANT GROVE	44.11	0.03	0.00	1.11	2.27	7.39	10.31	10.16	1.40	3.19	7.66	0.46	0.13	0.01	0.50	0.46	43.94
HASLETT BASIN	34.18	0.00	0.00	0.48	4.48	3.24	10.85	3.60	1.57	2.54	7.30	0.12	0.00	0.00	0.00	0.00	33.70
LOWER BIG CREEK	33.28	0.00	0.00	0.44	3.51	3.10	11.40	4.99	1.32	1.91	6.50	0.11	0.00	N	N	N	N
MITCHELL MEADOW	35.51	AUGUST 17, 1964 TO AUGUST 10, 1965															
MORAINE CREEK	29.65	AUGUST 15, 1964 TO AUGUST 4, 1965															
PIEDRA	-	0.00	0.00	0.47	RE												
PINE FLAT DAM	21.00	0.00	0.01	0.45	1.20	3.79	4.47	3.83	0.34	1.89	4.99	0.03	0.00	T	0.10	0.00	20.64
PINEHURST	35.67	0.00	0.97	0.82	2.36	5.39	7.52	6.71	1.21	3.06	7.50	0.13	0.00	0.00	0.20	0.01	34.09
RATTLESNAKE CREEK	47.22	JULY 9, 1964 TO JULY 15, 1965															
SOAPROOT SADDLE	46.16	0.00	0.00	0.53	7.25	3.58	15.85	6.57	1.88	3.27	7.10	0.13	0.00	N	N	N	N

TABLE A-4 (Cont.)

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation In Inches																
	Total July 1 To June 30	1964						1965									Total Oct. 1 To Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
STATE LAKES	35.00						AUGUST 12, 1964 TO AUGUST 9, 1965										
SUMMIT MEADOW	54.14						JULY 11, 1964 TO JULY 12, 1965										
TRIMMER R S	30.77	0.00	0.29	0.43	1.96	5.07	7.61	5.67	1.27	2.37	5.99	0.11	0.00	0.00	0.00	0.00	30.05
VIDETTE MEADOW	36.57						AUGUST 29, 1964 TO AUGUST 5, 1965										
WISHON LAKE	50.29E	0.08	0.13	1.11	2.15	8.02	14.03	11.33	1.80	2.79E	6.59E	1.49	0.77	0.15	3.20	0.39	52.71E
WOODCHUCK MEADOW	49.24						JULY 7, 1964 TO JULY 13, 1965										
KAWEAH RIVER																	
ASH MOUNTAIN	26.77	0.00	0.00	0.55	1.54	4.93	7.11	4.80	1.20	1.96	4.61	0.07	0.00	0.00	0.60	0.54	27.36
ATWELL CCC CAMP	47.68						JULY 27, 1964 TO SEPTEMBER 13, 1965										
BADGER	28.63	0.05	0.56	0.02	2.38	4.67E	7.58	5.25	0.72	2.29	5.00	0.07	0.04	0.03	0.10	0.11	28.24E
BEARTRAP MEADOW	51.74						JULY 25, 1964 TO SEPTEMBER 10, 1965										
GIANT FOREST	48.24	0.00	0.00	1.14	1.90	8.22	14.98	9.19	1.64	3.67	7.00	0.42	0.08	0.23	1.81	1.03	50.17
HOCKETT MEADOW	44.65						JULY 21, 1964 TO SEPTEMBER 15, 1965										
KAWEAH PH 3	26.41	0.00	0.00	0.47	1.54	4.93	7.50	4.08	1.03	2.00	4.77	0.08	0.01	0.15	0.76	0.00	26.85
LEMON COVE	14.57	0.00	0.15	0.26	1.23	2.12	4.17	2.34	0.51	0.82	2.97	0.00	T	T	0.02	0.24	14.42
MINERAL KING	40.41						JULY 27, 1964 TO SEPTEMBER 16, 1965										
MIRAMONTE HONOR CAMP	27.42	0.00	0.00	0.80	2.00	4.56	6.37	5.06	0.46	2.44	5.70	T	0.03	0.21	0.13	0.03	26.99
PEAR LAKE	41.83						JULY 13, 1964 TO JULY 22, 1965										
SQUAW VALLEY FR	25.59	0.00	0.15	0.45	1.78	5.01	6.46	4.83	0.13	0.79	5.99	0.00	0.00	0.00	0.00	0.05	25.04
TERMINUS DAM	15.46	0.00	0.00	0.39	1.28	2.28	3.74	2.92	0.47	1.17	3.21	0.00	T	0.01	0.05	0.30	15.43
THREE RIVERS 6 SE	21.39	0.00	0.44	0.05	2.10	3.72	4.89	3.37	0.97	1.56	4.29	0.00	0.00	0.06	0.50	0.69	22.19
THREE RIVERS PH NO 2	23.50	0.00	0.00	0.45	1.77	3.92	6.14	3.68	0.82	1.84	4.88	0.00	T	0.02	0.30	0.28	23.65
THREE RIVERS PH NO 1	22.45	0.00	0.41	0.05	1.71	3.82	5.63	3.47	0.85	2.17	4.34	0.00	0.00	0.03	0.49	0.38	22.89
TULE RIVER																	
CALIF HOT SPRS RS	-	0.00E	0.34E	0.08E	1.61E	4.66E	6.42	RE									
CAMP NELSON	34.57	0.40	0.42	0.00	1.22	6.64	10.46	7.40	1.40	1.28	5.35	0.00	0.00	-	-	-	-
EAGLE CREEK	33.42						NOVEMBER 7, 1964 TO SEPTEMBER 29, 1965										
HOSSACK	50.29						JUNE 29, 1964 TO JUNE 30, 1965										
MILO 5 NE	31.69	0.00	0.42	0.05	1.63	5.37	8.62	5.00	1.12	3.00	6.39	0.05	0.04	0.24	0.54	0.62	32.62
MOUNTAIN HOME 2	40.91						JUNE 24, 1964 TO SEPTEMBER 30, 1965										
ROGERS CAMP	37.44						SEPTEMBER 30, 1964 TO JUNE 30, 1965										
SPRINGVILLE 7 ENE	31.53	0.00	0.06	0.49	1.75	6.97	8.61	4.84	1.19	2.38	5.15	0.08	0.01	0.16	0.14	0.62	31.90
SPRINGVILLE RS	-	0.00	-	-	-	-	3.86	-	0.68	1.40	4.07	0.00	0.00	-	-	-	-
SPRINGVILLE TULE HDW	39.54	0.00	0.38	0.08	1.73	8.86	13.25	5.75	1.10	3.20	4.84	0.33	0.02	0.15	0.66	0.80	40.69
SUCCESS DAM	12.90	0.00	0.00	0.33	1.28	2.57	2.03	1.81	0.17	1.15	3.56	0.00	0.00	0.03	0.23	0.13	12.96
TULE RIVER INTAKE	31.69	0.00	0.00	0.45	1.75	7.01	8.84	4.66	1.24	2.32	5.31	0.08	0.03	0.18	0.15	0.00	31.57
TULE RIVER PH	22.42	0.00	0.00	0.33	1.34	4.64	5.62	2.89	0.89	1.44	5.24	0.03	0.00	0.20	0.77	0.00	23.06
UHL RS							RB	3.82	1.06	2.70	6.51	0.11	0.13	0.15	0.51	-	-

TABLE A-4 (Cont.)

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation In Inches																
	Total July 1 To June 30	1964						1965									Total Oct. 1 To Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
GREEN HORN MOUNTAIN																	
GLENVILLE	21.64	0.00	0.00	0.21	1.03	3.44	5.10	3.63	0.70	2.30	5.15	0.05	0.03	0.32	0.58	0.40	22.73
GLENVILLE FULTON RS	-	0.00	0.24	0.05	0.88	3.76	5.78	3.23	0.77	2.62	4.91	-	-	-	-	-	-
POSEY 3 E	30.47	0.00	0.38	0.00	1.13	5.83	9.63	4.33	0.94	3.02	5.16	0.05	0.00	0.15	1.25	0.73	32.22
WOODY	13.97	0.00	0.00	0.27	0.98	2.30	2.20	2.04	0.50	1.92	3.74	0.00	0.02	0.05	0.07	0.28	14.10
KERN RIVER																	
BOREL PH	15.43	0.00	0.00	0.03	0.27	2.32	4.89	2.39	0.44	1.97	3.12	0.01	0.00	N	N	N	N
CHAGOOPA	29.10						JULY 25, 1964 TO JULY 19, 1965										
CRABTREE MEADOW	28.31						SEPTEMBER 13, 1964 TO SEPTEMBER 15, 1965										
DOUBLEBUNK MEADOW	43.07						JUNE 23, 1964 TO JUNE 30, 1965										
ISABELLA DAM	11.91	0.00	0.00	0.01	0.47	1.82	3.49	1.75	0.27	1.21	2.58	0.18	0.13	0.39	0.50	0.20	12.99
JOHNSONDALE	-	T	0.26	0.00	1.08	6.23	-	-	0.86	1.07	4.32	0.12	0.02	-	-	-	-
KERN CANYON	9.64E	0.00	0.00	0.11	0.52	1.28	2.17	1.08	0.21	1.54E	1.94E	0.79E	0.00	0.05	0.02	0.03	9.63E
KERN RIVER INTAKE 3	19.02	0.02	0.31	0.00	0.80	3.48	6.81	2.90	0.20	0.81	3.60	0.04	0.07	0.19	0.97	0.17	20.02
KERN R 3 INTAKE SCE	18.53	0.02	0.08	0.11	0.80	3.47	6.62	2.97	T	1.01	3.41	0.01	0.03	0.06	1.02	0.00	19.40
KERN RIVER PH NO 1	11.69	0.00	0.04	0.16	0.58	1.55	2.94	1.38	0.35	1.83	2.86	0.00	T	0.00	0.07	T	11.56
KERN RIVER PH NO 3	13.02E	0.05	0.00	0.01	0.44	1.89	3.80	1.52	0.29	1.49	3.29	0.01	0.23E	0.18	0.49	0.34	13.97E
MONACHE MEADOWS	16.83						AUGUST 5, 1964 TO SEPTEMBER 3, 1965										
ONYX	8.50	0.51	0.00	0.00	0.29	1.34	2.20	0.99	0.17	0.73	2.27	0.00	0.00	N	N	N	N
PORTUGUESE MEADOW	46.59						JUNE 22, 1964 TO JUNE 28, 1965										
QUAKING ASPEN	43.06						JUNE 23, 1964 TO JUNE 30, 1965										
ROUND MEADOW	42.78						JUNE 22, 1964 TO JUNE 29, 1965										
TUNNEL RS	23.45						AUGUST 4, 1964 TO SEPTEMBER 3, 1965										
WELDON 1 WSW	7.66	0.00	0.00	0.00	0.31	1.06	2.19	0.64	0.25	0.94	2.27	0.00	0.00	0.29	0.46	0.11	8.52
WET MEADOW	42.47						JULY 21, 1964 TO SEPTEMBER 15, 1965										
WOFFORD HEIGHTS	12.27	0.00	T	T	0.35	1.88	3.89	1.72	0.23	1.47	2.62	0.02	0.09	0.56	1.09	0.20	14.09
TEHACHAPI MOUNTAINS																	
BALLINGER	8.70						JULY 1, 1964 TO JUNE 30, 1965										
BITTER CREEK	-																
BURGESS CORRALS	8.38																
CHUCHUPATE RS	-	0.00	0.05	0.00	0.72	1.59E	1.09E	-	0.33	-	-	0.04	0.00	0.31	1.77	0.26	-
CUMMINGS VALLEY 2	12.16	0.05	0.04	0.04	0.49	2.40	2.86	1.01	0.37	1.35	3.53	0.00	0.02	0.22	0.18	0.10	12.61
KEENE	16.83	0.31	0.00	0.01	0.38	3.02	4.71	2.48	0.55	1.53	3.79	0.02	0.03	0.19	0.00	0.01	16.71
LEBEC	11.53	0.00	0.13	0.06	0.65	1.32	1.30	1.42	0.71	1.21	4.65	0.08	T	0.82	0.29	0.65	13.10
LORAINE	14.22	0.18	0.00	0.00	0.59	3.02	5.57	1.78	0.42	1.92	3.42	0.00	0.02	-	0.46	0.10	-
PATTIWAY	10.02	0.00	0.16	0.20	1.35	1.23	0.73	1.44	0.83	0.91	3.15	0.02	0.00	0.26	0.32	0.44	10.68
SMITH FLAT	7.48																
TEHACHAPI	10.90	0.22	0.01	0.00	0.29	1.02	4.43	0.78	0.19	1.28	2.68	0.00	0.00	0.44	1.18	0.00	12.29
TEHACHAPI RS	11.26	0.21	0.00	0.00	0.59	1.79	2.70	1.09	0.33	1.58	2.97	0.00	0.00	0.37	0.83	0.00	12.25

TABLE A-4 (Cont.)

PRECIPITATION DATA

SAN JOAQUIN DISTRICT

Station Name	Precipitation In Inches																	
	Total July 1 To June 30	1964						1965									Total Oct.1 To Sept.30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
TULARE L BAS WESTSIDE																	
AVENAL ORCHARD RCH	8.82	0.00	0.40	0.00	1.04	1.08	1.24	1.12	0.50	1.48	1.96	0.00	0.00	N	N	N	N
AVENAL 8 SW	13.00	0.00	0.31	0.00	1.11	1.21	2.57	2.58	0.60	2.44	2.18	0.00	0.00	0.16	0.00	0.10	12.95
AVENAL 6 SSW	11.65	0.00	0.00	0.40	1.19	1.15	1.90	2.61	0.58	1.09	2.70	0.03	0.00	0.17	0.00	0.10	11.52
CHOLAME TWISSELMAN	10.06	0.00	0.00	0.17	0.90	2.16	1.77	1.28	0.37	1.33	2.08	0.00	0.00	N	N	N	N
COALINGA ROBERTS RCH	11.11	0.00	0.00	0.00	0.69	1.93	2.41	1.97	0.56	1.32	2.23	0.00	0.00	0.00	0.00	0.00	11.11
COALINGA 14 WNW	14.29	0.00	0.06	0.00	0.83	2.55	3.11	2.32	0.66	1.90	2.86	0.00	0.00	0.32	0.00	0.09	14.64
DOMENGINE RCH	8.38	T	0.07	0.06	0.86	1.09	1.41	0.65	0.58	2.09	1.57	0.00	0.00	0.04	T	0.00	8.29
DOMENGINE SPRING	10.64	0.00	0.00	0.00	1.20	1.60	0.98	2.00	0.39	0.52	3.95	0.00	0.00	N	N	N	N
FELLOWS	6.29	0.00	0.03	0.40	0.72	0.97	0.36	0.66	0.20	1.17	1.78	0.00	0.00	0.04	N	N	N
MARICOPA	6.24	0.00	0.08	0.04	0.93	0.22	0.58	0.83	0.84	0.81	1.91	0.00	0.00	0.00	0.08	0.09	6.29
MARICOPA FS	6.28	0.00	0.00	0.45	1.02	0.55	0.95	0.80	0.45	0.52	1.54	0.00	0.00	N	N	N	N
MARTINEZ SPRING	9.35	0.00	0.00	0.00	1.10	1.25	1.10	1.25	0.40	0.50	3.75	0.00	0.00	N	N	N	N
MCKITTRICK FS	4.54	0.00	0.02	0.34	0.80	0.49	0.18	0.47	0.23	0.43	1.58	0.00	0.00	0.17	0.04	0.18	4.57
OILFIELDS JOAQ RDG	11.86E	JUNE 30, 1964 TO JULY 15, 1965															
TAFT	5.80	0.00	0.23	0.09	0.77	0.66	0.59	0.65	0.25	0.77	1.78	0.01	0.00	0.00	0.00	0.20	5.68
TAFT KTKR RADIO	5.46	T	0.03	0.33	0.83	0.69	0.54	0.79	0.30	0.40	1.85	T	0.00	0.05	0.17	0.11	5.43
THIRTY-TWO CORRAL	11.25	0.00	0.00	0.00	1.30	1.50	1.15	2.50	0.40	0.50	3.90	0.00	0.00	N	N	N	N
UPPER SALINAS RIVER																	
PARKFIELD 7 NNW	-	0.00	0.25	0.00	0.71	1.40	1.84E	1.49	-	1.60	1.85	0.00	0.00	0.25	0.00	0.40	-

TABLE A-5
TEMPERATURE DATA
SAN JOAQUIN DISTRICT

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1964						1965								
		July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept.
SAN JOAQUIN BASIN																
SAN JOAQUIN VAL FL																
CASTLE AFB	MAX	104	100	96	95	69	67	64	71	75	91	97	97	103	98	92
	MIN	51	54	48	40	29	30	27	30	37	35	38	50	51	56	47
	AV MAX	93.4	90.9	84.4	80.0	55.7	55.4	51.0	59.1	64.2	68.4	81.1	83.7	93.1	90.7	83.0
	AV MIN	62.2	61.6	53.3	52.2	40.8	43.4	40.5	37.6	42.3	49.3	51.5	55.6	61.9	62.9	54.5
	AVG	77.8	76.8	68.9	66.1	48.3	49.4	46.0	48.4	53.3	58.9	66.3	69.6	77.5	76.8	68.6
LIVINGSTON 5 W	MAX	112	107	102	98	72	69	64	73	80	94	101	100	102	100	94
	MIN	45	55	47	45	31	28	27	26	33	35	36	41	50	51	38
	AV MAX	100.4M	98.9M	90.3	86.1M	63.1M	57.0	53.1	60.6	67.3	70.0	84.3M	84.8	93.7	93.1	84.4
	AV MIN	58.2M	61.0M	51.2	52.7M	42.5M	40.4	36.9	34.6	39.7	46.9	45.3M	50.2	56.7	57.8	48.1
	AVG	79.3M	80.0	70.8	69.4M	52.8M	48.7	45.0	47.6	53.5	58.5	64.8M	67.5	75.2	75.5	66.2
LOS BANOS FIELD STA	MAX	107	103	96	94	69	70	66	71	80	91	93	97	102	101	94
	MIN	52	55	47	47	28	28	29	31	36	35	43	47	52	54	47
	AV MAX	95.9	95.4	85.2	82.2	59.4	57.1	51.6	58.4	66.9	70.3	80.8	83.2	93.4	92.9	84.9
	AV MIN	61.4	62.3	53.4	53.1	39.3	39.3	38.2	36.8	42.4	47.8	52.1	54.5	58.9	61.7	53.2
	AVG	78.6	78.8	69.3	67.6	49.4	48.2	44.9	47.6	54.6	59.0	66.4	68.8	76.1	77.3	69.0
MODESTO KTRB	MAX	104	100	98	95	70	71	66	75	83	93	97	98	102	99	92
	MIN	51	53	47	44	27	30	27	30	33	36	39	43	49	55	44
	AV MAX	93.1	91.9	86.0	81.4	59.3	57.4	53.7	61.9	68.1	71.0	81.4	82.8	92.7	91.5	82.9
	AV MIN	58.6	59.1	51.7	50.6	40.9	43.5	39.3	37.0	41.4	48.8	48.9	51.1	58.0	60.1	51.1
	AVG	75.9	75.5	68.9	66.0	50.1	50.5	46.5	49.5	54.8	59.9	65.2	67.0	75.3	75.8	67.0
STANISLAUS RIVER																
HUNTERS DAM	MAX	95	94	92	93	75	58	70	72	69	78	85	86	93	93	86
	MIN	38	54	34	34	19	22	10	21	26	26	27	33	40	44	32
	AV MAX	87.2	86.9	80.5	78.1	54.8	58.8	53.0	58.9	56.8	57.1	68.5	74.8	87.0	85.1	74.5
	AV MIN	49.6	49.3	42.1	41.5	31.2	34.5	29.5	28.2	30.7	36.3	35.7	42.8	49.1	50.2	40.6
	AVG	68.4	68.1	61.3	59.8	43.0	42.0	41.3	43.6	43.8	46.7	52.1	58.8	67.6	67.6	57.6
PINECREST STRAWBERRY	MAX	88	88	86	84	78	60	68	66	62	74	74	82	86	M	80
	MIN	38	38	30	32	9	18	4	16	22	18	24	32	40	M	28
	AV MAX	82.1	83.3	93.7	74.6	49.9	45.0	48.5	54.8	51.9	52.4	54.6	69.5	M	M	M
	AV MIN	48.3	48.8	40.3	40.5	25.8	28.7	26.1	24.9	27.5	31.8	34.3	39.9	M	M	M
	AVG	65.2	66.1	67.0	57.6	37.9	36.9	37.3	39.9	39.7	42.1	44.5	54.7	M	M	M
SPRING GAP FOREBAY	MAX	88	88	M	88	66	52	64	64	M	72	76	M	88	M	M
	MIN	42	42	M	30	11	18	4	20	M	15	26	M	40	M	M
	AV MAX	M	M	M	M	46.8M	M	47.3M	52.5M	M	M	61.8M	M	80.9M	M	M
	AV MIN	M	M	M	M	27.2M	M	26.7M	28.4M	M	M	35.5M	M	49.8M	M	M
	AVG	M	M	M	M	37.0M	M	37.0M	40.5M	M	M	48.6M	M	65.4M	M	M

TABLE A-5 (Cont.)

TEMPERATURE DATA

SAN JOAQUIN DISTRICT

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1964						1965								
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
STANISLAUS P H	MAX	107	106	100	101	80	69	72	78	76	86	90	94	104	101	95
	MIN	50	57	46	44	26	28	27	28	50	32	36	44	53	54	43
	AV MAX	97.5	98.5	90.1	86.5	63.4	57.5	58.2	66.0M	66.0	67.1	79.4	83.2	85.4	94.5	86.5
	AV MIN	60.9	61.9	53.2	52.4	56.1	41.2	37.8	36.4	40.4	45.5	47.5	51.7	60.7	63.0	52.3
	AVG	79.2	80.2	71.7	69.5	59.8	49.4	48.0	51.2	53.2	56.3	63.4	62.4	73.0	78.7	69.4
TUOLUMNE RIVER																
DON PEDRO RESERVOIR	MAX	103	104	99	96	72	65	64	70	76	88	96	97	103	100	94
	MIN	47	44	43	39	24	23	25	26	32	34	32	41	48	49	41
	AV MAX	97.0	95.5	88.0	83.8	60.1	56.2	53.2	60.1	64.1	67.2	80.3	84.3	95.4	94.3	85.1
	AV MIN	58.1	57.3	48.4	48.7	35.2	37.5	33.9	32.7	37.7	43.4	44.4	48.1	57.4	57.4	48.0
	AVG	77.6	76.4	68.2	66.3	47.7	46.9	43.6	46.4	50.9	55.3	62.4	66.2	76.4	75.8	66.6
MERCED RIVER																
BAGBY	MAX	108	106	102	99	82	66	66	74	77	88	94	98	104	104	96
	MIN	53	58	50	47	28	33	29	29	37	37	36	48	56	58	48
	AV MAX	99.8	98.0	90.6	85.5	62.2	57.1	57.0	63.0	65.6	67.6	80.5	85.6	97.3M	96.4M	86.5
	AV MIN	63.8	65.0	55.6	54.8	40.9	44.1	40.2	36.8	42.3	48.6	49.5	55.7	63.1M	65.4M	55.0
	AVG	81.8	81.5	73.1	70.1	51.6	50.6	48.6	49.9	54.0	58.1	65.0	70.7	80.2M	80.9M	77.0
HORNITOS GILES RCH	MAX	104	102	96	94	71	64	61	68	74	87	93	94	100	98	90
	MIN	50	50	46	44	29	30	26	30	36	34	38	42	52	54	46
	AV MAX	94.3	92.1	85.1	80.6	57.9	53.6	49.6	57.0	61.8	65.4	77.3	81.3	92.3	90.7	81.1
	AV MIN	64.7	64.2	56.4	56.1	41.0	42.1	38.8	38.4	41.7	46.3	49.3	52.7	62.6	63.8	54.4
	AVG	79.5	78.2	70.8	68.4	49.5	47.9	44.2	47.7	51.8	55.9	63.3	67.0	77.5	75.8	67.8
MARIPOSA CIR 9 RCH	MAX	103	98	M	96	70	61	RE								
	MIN	48	38	M	38	13	16	RE								
	AV MAX	94.1	M	M	77.0M	53.2M	47.1	RE								
	AV MIN	55.3	M	M	46.1M	31.3M	31.9	RE								
	AVG	74.7	M	M	61.6M	42.3M	39.5	RE								
FRESNO - CHOWCHILLA R																
AHWAHNEE 2 NNW	MAX	97	96	94	92	80	72	76	76	78	84	88	88	94	95	88
	MIN	58	54	52	47	30	32	26	31	38	34	38	48	60	58	50
	AV MAX	90.1	90.0	84.0M	80.1M	63.3M	57.4	59.8	65.8	62.0M	63.6M	73.4	77.8	88.0	88.5	79.0
	AV MIN	69.3	69.4	61.3M	62.6M	42.4M	42.9	41.0	42.9	43.9M	48.0M	53.0	58.9	67.5	67.8	58.2
	AVG	79.7	79.7	72.7M	71.4M	52.9M	50.2	50.4	54.4	53.0M	55.8M	63.2	68.4	77.2	78.2	68.6
BIG CEDAR SPRINGS	MAX				RB	70	70	68	68	66	80	85	86	94	92	85
	MIN				RB	22	26	18	24	30	25	28	36	42	50	40
	AV MAX				RB	55.4	51.1	51.2	56.8	55.5	58.1	69.9	75.7M	87.1	86.6	76.3M
	AV MIN				RB	33.9	34.8	33.2	33.3	35.0	39.5	43.3	49.8M	56.2	58.1	47.1M
	AVG				RB	44.7	43.0	42.2	45.1	45.3	46.3	56.6	62.8M	71.7	72.4	61.7M

TABLE A-5 (Cont.)

TEMPERATURE DATA

SAN JOAQUIN DISTRICT

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1964						1965								
		July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CATHEYS VAL SAWYER	MAX	105	102	97	95	74	64	61	69	72	86	94	96	104	101	92
	MIN	49	50	45	42	24	29	24	27	32	36	32	40	49	51	42
	AV MAX	95.6	94.0	86.7	81.9	57.6	53.1	51.5	57.6	60.9	65.7	76.3	82.1	94.1	93.5	82.3
	AV MIN	62.1	61.4	52.5	52.0	38.0	40.9	37.3	35.6	39.2	46.1	44.8	50.9	58.3	60.8	50.8
	AVG	78.9	77.7	69.6	67.0	47.8	47.0	44.4	46.6	50.1	55.9	60.6	66.3	76.2	77.2	66.5
CATHEYS VAL STONHOUS	MAX	103	100	95	M	73	63	58	68	72	86	91	89	100	97	89
	MIN	44	47	40	M	22	25	22	24	30	33	31	39	45	48	38
	AV MAX	93.8	92.1	85.2	M	58.2	54.7	51.1	57.9	61.6	64.7	76.0	81.0	91.1	91.2	82.2M
	AV MIN	56.2	56.3	47.0	M	35.0	38.3	34.6	33.0	36.8	43.8	41.8	48.1	54.6	56.1	46.5M
	AVG	75.0	74.2	66.1	M	46.6	46.5	42.9	45.5	49.2	54.3	59.9	64.6	72.9	73.7	64.4M
HIDDEN VALLEY	MAX	106	101	98	96	75	66	72	73	73	83	94	M	M	M	93
	MIN	52	55	45	46	28	30	20	29	34	34	36	M	M	M	49
	AV MAX	97.6	95.5	86.1	81.3	59.8	55.3	54.6	61.6	61.3	61.3	74.5	M	M	M	82.8
	AV MIN	65.3M	63.8	54.9	53.2	39.9	40.0	37.8	37.3	41.4	46.6	48.7	M	M	M	56.3
	AVG	81.5M	79.7	70.5	67.3	49.9	47.6	46.2	49.5	51.4	54.0	61.6	M	M	M	69.6
LUSHMEADOWS RCH	MAX	104	101	98	M	76	66	73	74	74	86	95	96	M	M	RE
	MIN	54	52	45	M	25	25	20	27	34	29	34	45	M	M	RE
	AV MAX	96.0M	95.0M	88.5M	M	58.2	51.4M	52.6M	59.6M	59.0M	63.4	77.2M	81.3M	M	93.9M	RE
	AV MIN	64.5M	65.8M	56.4M	M	37.3	37.1M	36.5M	37.1M	38.4M	43.2	48.2M	53.8	M	63.5M	RE
	AVG	80.3M	80.4M	72.5M	M	47.8	44.3M	44.6M	48.4M	48.7M	53.3	62.7M	67.6M	M	78.7M	RE
OAKHURST	MAX	98	95	M	M	M	M	72	71	71	84	89	90	-	-	85
	MIN	38	40	32	29	15	19	9	17	23	28	21	32	-	-	29
	AV MAX	89.3	89.7	M	M	M	M	54.4M	60.9	60.1	61.7	73.8M	80.7	-	-	80.3M
	AV MIN	48.2	48.6	38.2	37.6	28.7	31.7	28.6M	26.3	31.4	37.5	34.7M	40.5	-	-	37.9M
	AVG	68.8	69.2	M	M	M	M	42.0M	43.6	45.8	49.6	54.3M	60.6	-	-	59.1M
RAYMOND 9 N	MAX	105	M	M	97	77	66	67	71	75	88	100	100	-	-	RE
	MIN	45	M	M	41	24	27	22	26	32	32	32	39	-	-	RE
	AV MAX	97.9	98.4M	M	84.2	61.0	57.4	55.6M	61.7	65.0M	67.5	80.3	87.1M	-	-	RE
	AV MIN	58.2	59.8M	M	50.1	36.2	38.1	35.0M	33.9	38.0M	43.9	43.0	48.7M	-	-	RE
	AVG	78.1	79.1M	M	67.2	48.6	47.8	45.3M	47.8	51.5M	55.7	61.7	67.9M	-	-	RE
SAN JOAQUIN RIVER																
CRANE VALLEY P H	MAX	98	96	92	90	76	72	70	72	70	80	87	90	96	98	90
	MIN	54	50	46	42	26	26	20	22	32	28	32	40	56	54	44
	AV MAX	91.1	90.3	82.3	78.9	57.9	52.7	54.4	59.6	58.2	60.0	72.4	79.3	89.9	88.9	79.3
	AV MIN	62.4	61.4	54.6	52.3	37.1	36.7	34.4	34.3	37.3	41.0	46.5	52.6	60.6	61.5	55.6
	AVG	76.8	75.9	68.5	65.6	47.5	44.7	44.4	47.0	47.8	50.5	59.5	66.0	75.3	75.2	67.5

TABLE A-5 (Cont.)

TEMPERATURE DATA

SAN JOAQUIN DISTRICT

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1964						1965								
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
MEADOW LAKE	MAX	94	92	88	90	80	72	68	70	74	78	84	84	90	93	88
	MIN	56	50	42	41	20	22	17	26	32	22	33	41	56	58	42
	AV MAX	85.3	86.6	78.8	76.6M	53.9	50.3	49.4	54.9	53.5	54.3	67.1M	72.7	84.5	84.7	73.4
	AV MIN	65.3	64.9	56.5	56.9M	37.2	36.1	35.9	37.4	37.7	35.6	47.2M	51.0	63.2	64.3	53.2
	AVG	75.3	75.8	67.7	66.8M	45.6	43.2	42.7	46.2	45.6	45.0	57.2M	61.9	73.9	74.5	63.3
MOUNTAIN REST FFS	MAX	96	93	88	89	M	68	M	65	65	RE					
	MIN	49	51	36	26	M	21	M	25	30	RE					
	AV MAX	87.6	86.5M	78.8M	77.0M	M	48.2M	M	54.4M	53.3	RE					
	AV MIN	61.2	61.2M	52.7M	52.3M	M	37.6M	M	37.2M	37.1	RE					
	AVG	74.4	73.9M	65.8M	64.7M	M	42.9M	M	45.8M	45.2	RE					
SAN JOAQ VAL WESTSIDE																
CASTLE ROCK RAD LAB	MAX	107	103	99	96	82	71	68	74	79	94	95	98	106	104	94
	MIN	54	55	48	43	25	26	26	27	35	30	41	45	51	53	39
	AV MAX	93.9	94.1	86.2	82.6	62.5	59.3	54.6	60.2	65.7	69.3	79.8	82.9	94.0	94.0	84.7
	AV MIN	63.5	63.0	57.2	53.8	41.8	43.1	38.5	38.4	41.6	46.0	50.4	54.4	60.7	61.8	50.6
	AVG	78.7	78.6	71.7	68.2	52.2	51.2	46.6	49.3	53.7	57.7	65.1	64.5	77.4	77.9	67.7
DEL PUERTO ROAD CAMP	MAX	104	100	94	96	70	65	60	70	72	86	92	98	107	100	90
	MIN	50	50	42	41	24	30	24	29	32	33	36	38	50	50	40
	AV MAX	95.8	92.5M	81.3	78.0M	57.1	54.8M	53.0	59.0	61.9	65.9	77.3	84.8	96.9	90.8	80.0
	AV MIN	58.5	57.9M	50.7	47.8M	37.8	38.9M	35.8	35.7	38.5	43.4	45.5	49.9	56.8	58.0	48.1
	AVG	77.2	75.2M	66.0	62.9M	47.5	46.9M	44.4	47.4	50.2	54.7	61.3	67.4	76.9	74.4	64.1
TULARE LAKE BASIN																
TULARE LAKE VAL FL																
ARVIN	MAX	107	102	100	95	78	74	75	77	84	98	-	98	104	102	94
	MIN	53	56	47	43	28	22	28	28	35	39	-	48	53	52	46.0
	AV MAX	97.4	96.1M	88.1	83.8	63.0	60.9M	57.6M	64.9	70.3	85.2	-	87.8M	96.5	95.0	86.1
	AV MIN	64.4	63.9M	54.8	52.8	39.3	39.4M	38.0M	37.6	45.5	52.6	-	57.1M	63.8	64.0	53.9
	AVG	80.9	80.0M	71.5	68.3	51.2	50.2M	47.8M	51.3	57.9	68.9	-	72.5M	80.2	79.5	70.0
ARVIN FRICK	MAX	105	100	96	96	77	72	72	74	80	94	94	96	102	99	92
	MIN	50	50	42	38	20	17	25	21	30	36	30	38	52	54	39
	AV MAX	94.0	92.0	86.0	82.0	58.0	56.0	53.0	59.0	66.0	69.0	79.0	83.0	93.7	93.9	83.0
	AV MIN	59.0	58.0	48.0	47.0	33.0	35.0	33.0	31.0	40.0	44.0	46.0	52.0	59.0	60.3	48.8
	AVG	76.6	75.1	67.0	64.7	45.8	45.5	43.0	45.1	52.8	56.7	62.0	67.4	76.4	77.1	65.9
AVENAL WALDEN	MAX	108	106	99	M	74	73	69	76	83	94	99	99	105	104	95
	MIN	59	60	54	M	32	32	34	25	37	39	44	51	60	61	52
	AV MAX	100.3	98.5	89.6	M	64.0	61.1M	58.7	61.8	69.9M	71.5M	84.7M	88.7M	98.9	98.2	86.8
	AV MIN	69.8	69.4	60.4M	M	44.6	45.4M	43.6M	38.9	46.9M	52.1M	56.7M	60.1	68.8	67.2	58.5
	AVG	85.1	84.0	75.0M	M	54.3	53.3M	51.2M	50.4	58.4M	61.8M	70.7M	74.4	83.8	82.7	72.6

TABLE A-5 (Cont.)

TEMPERATURE DATA

SAN JOAQUIN DISTRICT

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1964						1965								
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.
CARUTHERS 4 E	MAX	M	M	98	97	73	72	63	75	81	95	99	98	103	102	94
	MIN	M	M	44	38	23	26	24	24	30	37	33	46	53	52	38
	AV MAX	M	M	88.0	83.9	61.9	57.0M	52.3M	60.6	68.1	71.7M	83.5	85.6	94.5	95.5	86.1
	AV MIN	M	M	48.4	47.3	36.9	38.0M	36.0M	32.5	39.2	45.2M	45.0	52.5	58.7	58.5M	48.0
	AVG	M	M	68.2	65.6	49.4	48.0M	44.2M	46.6	53.7	58.5M	64.3	69.1	76.6	77.0M	67.1
CORCORAN EL RICO 1	MAX	111	106	100	97	76	71	-	-	-	96	100	99	106	103	95
	MIN	50	54	46	45	28	30	-	-	-	35	35	47	52	52	42
	AV MAX	99.0	97.2	88.1M	83.1	60.2	56.2	-	-	-	69.4	82.5	86.1	96.2	95.0	85.2
	AV MIN	60.6	60.7	51.6M	52.7	41.1	42.7	-	-	-	46.1	47.7	53.7	60.0	60.2	51.9
	AVG	79.8	79.0	69.9M	67.9	50.7	49.5	-	-	-	57.8	65.1	69.9	78.1	77.6	68.6
COALINGA FEED YRD 1N	MAX	106	-	-	92	68	71	68	74	80	91	96	97	-	102	94
	MIN	50	-	-	46	29	27	28	31	38	34	39	46	-	58	54
	AV MAX	98.6M	-	-	80.3M	60.1	56.6	52.6M	59.7M	64.1M	69.2M	82.0M	86.5M	-	96.3	84.6
	AV MIN	66.3M	-	-	56.0M	40.9	42.8M	38.9M	39.8M	43.8M	48.7M	50.4M	55.2M	-	68.7	56.7
	AVG	82.5M	-	-	68.2M	50.5	49.7M	45.7M	39.7M	53.9M	58.9M	66.2M	70.8M	-	82.5	70.6
DEVILS DEN SLF	MAX							RB	79	82	97	102	101	108	107	100
	MIN							RB	28	33	34	41	49	54	58	43
	AV MAX							RB	64.3M	69.8	73.4	85.0	87.9	99.5	99.0	90.4
	AV MIN							RB	35.9M	42.4	48.1	51.7	56.0	61.5	64.4	55.9
	AVG							RB	50.1M	56.1	60.8	68.4	72.0	80.5	81.7	73.2
DIGIORGIO	MAX	112	106	103	100	82	73	73	78	84	99	99	100	106	103	94
	MIN	53	56	48	46	30	22	29	28	38	38	34	46	55	56	44
	AV MAX	100.7	98.4	91.6	87.8	63.7	58.6	56.0	62.7	70.8	73.7	83.4	87.6	97.8	96.3	86.1
	AV MIN	64.8	64.0	54.5	53.0	40.0	38.8	37.4	37.6	46.9	48.6	51.0	55.3	62.2	62.6	50.4
	AVG	82.8	81.2	73.1	70.4	51.9	48.7	46.7	50.2	58.9	61.2	67.2	71.5	80.0	79.5	68.3
FIVE POINTS DIENER	MAX	108	103	97	94	79	72	69	74	79	95	98	98	104	102	95
	MIN	53	56	49	45	28	28	29	28	36	36	37	47	56	55	47
	AV MAX	97.2	94.8	87.0	82.4	61.1	57.6	53.9	61.4	68.0	71.3	82.7	86.2	96.3	96.0	84.7
	AV MIN	63.4	62.9	54.2	53.9	41.3	42.2	39.9	37.9	42.6	48.3	50.7	55.2	62.9	63.6	54.8
	AVG	80.3	78.9	70.6	68.2	51.2	49.9	46.9	49.7	55.3	59.8	66.7	70.4	79.6	79.8	69.8
FRESNO CO WESTSIDE FD	MAX	108	104	100	97	76	73	71	78	82	95	100	100	107	106	98
	MIN	50	56	46	42	27	23	26	27	32	34	36	46	54	54	44
	AV MAX	99.5	98.3	90.1	85.7	62.9	59.2M	57.0	63.6	69.1	72.2	84.4	82.1M	98.1	98.0	85.9
	AV MIN	63.6	62.7	53.9	53.2	39.0	40.5M	38.5	36.8	41.0	47.6	49.7	54.0M	62.9	64.0	52.7
	AVG	81.6	80.5	72.0	69.5	51.0	49.9M	47.8	50.2	55.0	59.9	67.0	68.0M	80.5	81.0	69.3
HANFORD WELL #21	MAX		RB	97	96	76	74	68	76	81	95	99	97	103	107	94
	MIN		RB	46	38	24	25	25	25	32	36	38	47	54	52	41
	AV MAX		RB	88.4	84.0	63.3	58.1	54.0	63.2	69.8	72.0	84.0	86.4	95.4	95.1	85.1
	AV MIN		RB	50.1	48.9	37.5	40.0	36.5	35.6	42.3	47.1	49.9	55.0	61.7	60.8	51.5
	AVG		RB	69.8	66.5	50.4	49.1	45.3	49.4	56.1	59.6	67.0	70.7	78.6	78.0	68.7

TABLE A-5 (Cont.)

TEMPERATURE DATA

SAN JOAQUIN DISTRICT

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1964						1965								
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
KETTLEMAN HILLS	MAX	102	105	97	94	68	62	65	75	M	M	99	96	106	105	-
	MIN	55	56	52	50	36	35	32	37	M	M	47	50	57	63	-
	AV MAX	95.7	94.7	85.6	81.4	57.9	52.9	51.8	61.3	M	M	80.5	84.7	95.7	96.6	-
	AV MIN	70.2	71.8	63.8	63.1	44.3	41.8	42.1	46.0	M	M	59.1	60.8	72.4	75.6	-
	AVG	83.0	83.3	74.7	72.3	51.1	47.1	47.0	53.7	M	M	69.8	72.8	84.1	86.1	-
MAGUNDEN	MAX	110	105	103	96	80	75	73	77	84	100	100	99	106	103	94
	MIN	58	58	52	48	30	25	31	30	39	39	40	49	62	62	51
	AV MAX	100.3	98.1	89.5	85.3	62.5	59.9	56.4	62.1	67.8	74.0	84.1	87.8	98.3	97.7	86.1
	AV MIN	67.9	67.3	57.8	56.1	40.1	40.7	38.9	38.5	46.2	50.6	54.6	58.5	66.8	68.9	58.1
	AVG	84.1	82.7	73.7	70.7	51.3	50.3	47.7	50.3	57.0	62.3	69.4	73.2	82.6	83.3	72.1
NORTH BELRIDGE	MAX	108	105	100	96	73	74	68	75	81	95	98	98	104	104	96
	MIN	62	57	54	50	32	29	32	32	41	38	43	50	62	62	54
	AV MAX	99.3	97.7	89.7	84.0	61.0	59.5	54.4	61.0	68.3	71.4	82.2	86.3M	96.9	98.0M	86.0
	AV MIN	71.4	70.9	61.4	59.2	42.7	42.8	39.8	39.7	46.9	51.0	56.8	58.7M	69.4	71.3M	60.0
	AVG	85.4	84.3	75.6	71.6	51.9	51.2	47.1	50.4	57.6	61.2	69.5	72.5M	83.2	84.7M	73.0
RECTOR	MAX	105	101	100	95	75	73	68	74	78	95	100	97	103	100	94
	MIN	46	54	45	42	28	30	27	30	36	40	37	45	55	50	45
	AV MAX	96.3	94.5	87.9	83.8	62.0	57.3	54.0	61.0	68.0	72.0	83.0	86.3	95.0	94.7	82.3
	AV MIN	62.0	60.8	52.6	51.1	39.2	40.8	39.4	37.3	43.7	48.3	49.5	56.2	61.5	62.1	52.8
	AVG	79.2	77.7	70.3	67.5	50.6	49.1	46.7	49.2	55.9	60.2	66.3	71.3	78.3	78.5	67.6
RIVERDALE	MAX	106	102	95	94	72	72	67	74	80	95	100	99	105	101	91
	MIN	50	50	41	42	27	27	29	27	33	36	39	46	54	52	43
	AV MAX	96.0	94.1	86.2	81.3	60.5	56.6	52.5	61.4	68.2	72.6	82.4	85.6	94.8	93.1	83.1
	AV MIN	61.2	60.0	50.8	50.0	38.6	38.8	37.0	34.3	41.0	47.0	49.7	53.7	61.6	61.0	51.1
	AVG	78.6	77.1	68.5	65.7	49.6	47.7	44.8	47.9	54.6	59.8	66.6	69.7	78.2	77.1	67.1
SANGER 1 NE	MAX	107	104	97	93	72	69	65	72	80	93	99	99	104	103	93
	MIN	53	54	47	45	30	32	30	31	37	41	37	47	54	55	47
	AV MAX	99.4	97.9	88.7	81.5	60.2	57.0	54.5	61.8	68.2	71.9	83.5	87.8	96.6	93.6	85.1
	AV MIN	61.2	60.2	53.1	52.1	42.1	44.3	41.5	39.8	44.3	50.0	50.4	55.5	61.6	61.9	53.2
	AVG	80.3	79.1	70.9	66.8	51.2	50.7	48.0	50.8	56.3	61.0	67.0	71.7	79.1	77.8	69.2
SOUTH BELRIDGE	MAX	108	105	100	97	77	74	67	74	81	96	98	98	105	107	96
	MIN	57	54	50	46	28	26	29	32	40	36	42	48	57	62	49
	AV MAX	99.6	98.0M	89.4	84.1M	61.8	56.2M	55.4M	62.4	67.7	72.1	83.8	87.8	98.4	99.8	88.6
	AV MIN	68.3	66.7M	56.5	54.7M	39.2	40.7M	37.6M	38.4	44.7	50.6	54.0	58.0	68.5	68.2	58.1
	AVG	84.0	82.4M	73.0	69.4M	50.5	48.5M	46.5M	50.4	55.7	61.4	68.9	72.9	83.5	84.0	73.3
SOUTH LAKE FARMS HDQ	MAX	108	104	98	96	75	73	69	75	80	95	98	98	105	103	94
	MIN	52	54	47	42	24	29	28	24	32	36	33	40	54	55	41
	AV MAX	98.3	96.5	87.9	83.2	61.7	57.5	52.8	61.5	68.1	72.2	82.7M	86.4	74.0	96.4	85.0
	AV MIN	64.9	60.9	52.2M	50.6	37.6	40.2	38.4	34.3M	41.0	44.9	47.1M	53.1	61.8	62.4	52.1
	AVG	79.6	78.7	70.1M	66.9	49.7	48.9	45.6	47.9M	54.6	58.6	64.9M	69.8	67.9	79.4	68.6

TABLE A-5 (Cont.)

TEMPERATURE DATA

SAN JOAQUIN DISTRICT

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1964						1965								
		July	Aug	Sept.	Oct.	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
TRANQUILLITY GLOTZ	MAX	M	M	M	95	72	72	70	74	80	96	99	95	103	100	96
	MIN	M	M	M	45	24	24	28	28	32	35	42	46	55	54	48
	AV MAX	M	M	M	83.4M	61.3M	58.3M	53.2M	59.7	67.2	71.3	82.8	84.5	95.3	92.7	84.6
	AV MIN	M	M	M	53.9M	40.2M	43.9M	39.9M	37.4	42.5	47.5M	50.4	55.2	63.0	63.3	55.0
	AVG	M	M	M	68.7M	50.8M	51.1M	46.6M	48.6	54.9	59.4M	66.2	69.9	79.1	78.0	69.8
TULARE	MAX	108	106	102	99	77	72	67	75	82	97	103	100	106	106	96
	MIN	53	53	48	42	28	30	28	29	36	38	39	49	55	56	46
	AV MAX	98.7	97.0	90.2	86.4	62.2	56.6	52.9	62.3	68.8	74.0	85.0	87.8	97.6	97.6	87.5
	AV MIN	62.3	62.3	53.2	51.6	40.1	42.1	39.4	37.0	44.0	38.8	50.9	55.9	62.4	63.2	52.7
	AVG	80.5	79.7	71.7	69.0	51.2	49.4	46.2	49.7	56.4	56.4	68.0	71.7	80.0	80.4	70.1
U S COTTON FIELD STA	MAX	109	102	100	95	75	75	70	74	81	95	98	97	101	101	93
	MIN	55	56	49	44	28	27	28	27	39	39	39	47	56	58	48
	AV MAX	96.6	94.4	87.1	83.6	60.7	58.3	54.0	62.0	67.9	72.3	82.8	85.6	94.5	94.5	84.0
	AV MIN	64.8	63.6	54.7	53.3M	39.4	40.1	37.8	36.9	46.0	49.0	51.5	56.4	63.7	64.7	54.6
	AVG	80.7	79.0	70.9	68.5M	50.0	49.2	45.9	49.5	57.0	60.7	67.1	71.0	79.1	79.6	69.3
VESTAL	MAX	109	107	102	96	87	73	72	76	80	97	100	100	104	101	96
	MIN	58	62	53	44	34	31	32	33	40	42	39	52	58	61	52
	AV MAX	99.5	97.4	90.4	86.2M	63.9	60.1	56.9	61.6M	70.2M	73.5	85.0	87.5	96.2	96.4	86.3
	AV MIN	68.9	68.7	60.1	58.1M	44.7	45.1	41.8	39.2M	47.9M	52.0	54.6	59.3	67.5	68.1	59.6
	AVG	84.2	83.1	75.3	72.2M	54.3	52.6	49.4	50.4M	59.1M	62.8	69.8	73.4	81.9	82.3	73.0
WEST CAMP SLF	MAX							RB	76	81	94	100	102	104	107	102
	MIN							RB	26	32	34	40	48	58	51	44
	AV MAX							RB	59.9M	68.4	72.1	83.8M	88.5	98.4	100.1	93.7
	AV MIN							RB	34.4M	40.9	44.5	51.3M	55.4	63.6	64.1	59.2
	AVG							RB	47.2M	54.7	58.3	67.6M	72.0	81.0	82.1	76.4
KINGS RIVER																
PINE FLAT DAM	MAX	106	104	99	96	77	67	67	72	78	91	97	98	104	105	94
	MIN	50	52	47	42	26	25	25	27	34	37	32	44	50	52	44
	AV MAX	98.5	98.0	88.9	85.2	61.9	56.9	53.0	60.5	65.5	68.3	82.2	86.4	97.1	98.1	86.7
	AV MIN	60.8	61.0	51.8	49.5	35.4	38.0	35.2	34.3	41.0	46.8	47.8	52.7	59.2	61.6	51.4
	AVG	79.7	79.5	70.4	67.4	48.7	47.5	44.1	47.4	53.3	57.6	65.0	69.6	78.2	79.8	69.1
PINEHURST	MAX	94	90	86	87	72	M	M	66	64	76	80	82	89	92	85
	MIN	50	49	39	39	19	M	M	23	31	24	30	35	52	53 4	41
	AV MAX	85.7	85.2	79.2	75.2M	M	M	M	56.5M	M	M	66.7	72.1	83.3	83.5	73.6M
	AV MIN	61.5	61.3	54.1	52.2M	M	M	M	35.8M	M	M	45.1	49.9	60.1	60.9	50.7
	AVG	73.6	73.3	66.7	63.7M	M	M	M	46.2M	M	M	55.9	66.0	71.7	72.2	62.2M

TABLE A-5 (Cont.)

TEMPERATURE DATA

SAN JOAQUIN DISTRICT

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1964						1965								
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept.
WISHON LAKE	MAX	84	83	79	80	65	54	59	57	56	68	69	75	82	83	76
	MIN	40	41	30	28	10	3	7	9	19	5	16	31	40	41	28
	AV MAX	77.2M	M	70.4M	69.0M	46.9M	42.6M	M	48.4M	45.7M	45.3M	M	64.2M	M	75.5M	M
	AV MIN	48.3M	M	40.7M	41.0M	24.9M	26.0M	M	23.5M	24.8M	25.3M	M	38.9M	M	46.6M	M
	AVG	62.7M	M	55.6M	55.0M	35.9M	34.3M	M	36.0M	35.6M	35.3M	M	51.6M	M	61.1M	M
KAWEAH RIVER																
TERMINUS DAM	MAX	105	103	98	95	75	70	66	71	76	92	98	94	101	101	93
	MIN	52	58	51	48	33	28	30	30	39	37	35	44	55	52	45
	AV MAX	96.5	95.8	86.8	83.3	60.8	57.0	52.8	59.5	64.8	68.8	80.9	84.4	94.2	94.8	84.1
	AV MIN	65.9	66.3	58.2	56.7	41.0	41.5	38.5	39.6	44.3	48.9	51.6	54.5	63.2	64.6	55.0
	AVG	81.2	81.1	72.5	70.0	50.9	49.3	45.7	49.6	54.6	58.9	66.2	69.5	78.7	79.7	69.6
TULE RIVER																
SUCCESS DAM	MAX	105	105	100	97	76	71	68	72	78	93	99	96	103	105	95
	MIN	53	57	47	45	31	29	29	32	40	38	35	47	56	56	51
	AV MAX	98.3	97.6	89.0	84.8	61.7	57.7	54.3	60.5	66.0	70.0	82.2	85.3	95.2	95.8	85.1
	AV MIN	65.1	64.3	56.5	55.8	40.8	41.0	38.1	38.0	44.3	48.2	51.2	55.9	63.3	64.4	56.4
	AVG	81.7	81.0	72.8	70.3	51.3	49.4	46.2	49.3	55.2	59.1	66.7	70.6	79.3	80.1	70.8
GREEN HORN MOUNTAIN																
WOODY	MAX	106	107	98	94	77	67	66	70	79	91	95	95	101	100	95
	MIN	42	47	43	42	27	28	23	29	36	32	32	41	50	50	41
	AV MAX	97.5	95.6	87.6	82.5	58.9	55.8	53.7	58.8	61.5	66.2	79.2	85.5	96.2	94.7	85.1
	AV MIN	61.6	62.2	52.7	52.6	38.0	38.7	35.0	35.7	40.3	44.7	48.0	51.8	60.2	61.2	50.1
	AVG	79.6	78.9	70.2	67.6	48.5	47.3	44.4	47.3	50.9	55.5	63.6	68.7	78.2	78.0	67.6
KERN RIVER																
ISABELLA DAM	MAX	104	103	98	98	76	72	72	76	73	88	91	93	100	103	95
	MIN	52	52	41	41	24	23	23	22	29	33	34	45	51	50	42
	AV MAX	96.1	96.3	88.7	85.7	59.5	57.1	56.4	62.1	60.4	64.7	74.6	81.3	94.1	93.6	83.2
	AV MIN	62.3	62.6	51.1	48.4	37.7	39.1	34.6	34.1	38.5	42.2	47.0	52.3	60.0	60.4	50.4
	AVG	79.2	79.5	69.9	67.1	48.6	48.1	45.5	48.1	49.5	53.5	60.6	66.8	77.1	77.0	66.8
KERN CANYON	MAX	104	99	94	94	78	68	70	75	77	M	94	94	100	98	90
	MIN	56	59	52	46	32	28	30	33	56	M	40	48	60	60	54
	AV MAX	M	92.7M	84.6M	82.1M	M	M	54.9M	57.2M	64.9M	M	82.5M	81.1M	M	93.6M	81.5M
	AV MIN	M	68.6M	59.1M	57.4M	M	M	37.2M	37.9M	45.9M	M	54.4M	57.6M	M	69.4M	59.8M
	AVG	M	80.7M	71.9M	69.8M	M	M	46.1M	47.6M	55.4	M	69.0M	69.4M	M	81.5M	70.7M

TABLE A-5 (Cont.)

TEMPERATURE DATA

SAN JOAQUIN DISTRICT

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1964						1965								
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug	Sept.
TEHACHAPI MOUNTAINS																
CUMMINGS VALLEY 2	MAX	92	91	89	90	74	70	70	74	68	81	87	84	98	95	87
	MIN	38	30	30	28	11	15	9	20	22	26	24	30	34	35	28
	AV MAX	84.4	83.8	78.9	76.1	53.3	51.5	53.0	56.0	53.2	57.6	66.9	73.2	83.4	83.4	75.2
	AV MIN	47.4	46.3	38.7	40.5	32.8	31.0	30.3	26.2	30.7	34.7	33.7	39.1	43.6	45.7	37.5
	AVG	65.9	65.0	58.8	58.3	43.0	41.2	41.6	41.1	42.0	46.2	50.3	56.2	63.5	64.6	56.3
KEENE	MAX	99	96	94	89	78	65	76	M	M	86	88	89	95	94	88
	MIN	40	41	39	39	22	14	21	21	22	29	28	37	40	43	28
	AV MAX	90.8	89.1	81.6	76.9	59.1	54.8	57.9	57.5M	M	64.2	72.8	77.2	87.3	86.9	77.6
	AV MIN	55.1	53.7	46.7	48.5	35.9	31.8	33.5	32.9M	34.9M	37.4	43.3	46.6	51.5	56.1	42.8
	AVG	73.0	71.4	64.2	62.7	47.5	43.3	45.7	45.2M	M	50.8	58.2	61.9	69.4	71.5	60.2
TULARE L BAS WESTSIDE																
DOMENGINE RCH	MAX	105	101	98	94	73	72	73	75	77	88	93	96	103	100	99
	MIN	49	50	45	48	32	30	29	37	41	37	43	44	54	59	51
	AV MAX	93.6	93.8	85.6	82.9	59.6	57.1	56.0	61.1	64.7	66.4	75.5	81.8	93.9	93.6	83.4
	AV MIN	66.4	66.8	58.0	61.1	44.8	44.8	37.4	43.8	46.2	50.9	54.6	55.5	68.1	68.5	59.6
	AVG	80.0	80.3	71.8	72.0	52.2	51.0	46.7	52.5	55.5	58.7	65.1	68.7	81.0	81.1	71.4
TAFT KTKR RADIO	MAX	107	102	98	94	78	75	68	74	80	94	96	96	103	100	93
	MIN	57	53	50	44	31	26	30	27	39	37	40	45	56	57	48
	AV MAX	95.3	95.5	86.2	82.6	60.2M	59.1	54.1	60.4	65.6	68.0	80.5	84.4	93.9	93.5M	83.3
	AV MIN	66.5	65.6	57.4	56.2	40.1M	39.5	36.7	37.1	44.0	48.0	52.2	55.9	65.3	65.7M	54.8
	AVG	80.9	80.5	71.8	69.4	50.2M	50.5	45.4	48.8	54.8	58.0	66.4	70.2	79.6	79.6M	69.1

TABLE A-6

EVAPORATION DATA

SAN JOAQUIN DISTRICT

Station Name		Total July 1 To June 30	1964 July	1964 Aug.	1964 Sept.	1964 Oct.	1964 Nov.	1964 Dec.	1965 Jan.	1965 Feb.	1965 Mar.	1965 Apr.	1965 May	1965 June	1965 July	1965 Aug.	1965 Sept.	Total Oct 1 To Sept. 30
SAN JOAQ R BAS																		
SAN JOAQ VAL FL																		
LOS BANOS FIELD STA	EVAP	95.96	17.53	14.98	10.35	6.71	1.94	1.50	1.08	3.20	4.91	5.90	14.04	13.82	13.68	13.49	8.63	88.90
	PRECIP	8.58	0.00	0.00	0.24	1.35	0.86	2.24	0.63	0.31	0.91	2.01	0.03	0.00	0.00	0.11	0.00	8.45
	WIND	39500	4680	4140	3400	2010	2080	2250	2210	2190	2600	2620	5100	6240	3400	3490	2820	37000
	AV MAX		95.9	95.4	85.2	82.2	59.4	57.1	51.6	58.4	66.9	70.3	80.8	83.2	93.4	92.9	84.9	
	AV MIN		61.4	62.3	53.4	53.1	39.3	39.3	38.2	36.8	42.4	47.8	52.1	54.5	58.9	61.7	53.2	
TUOLUMNE RIVER																		
DON PEDRO RESERVOIR	EVAP	78.97	14.61	13.22	9.26	6.46	1.78	1.30	1.06	2.22	3.74	4.10	10.14	11.08	14.25	11.90	6.12	74.15
	PRECIP	22.49	0.00	0.16	0.00	2.06	3.40	7.66	2.44	1.32	1.93	3.52	0.00	0.00	T	0.76	0.01	23.10
	WIND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	AV MAX		97.0	95.5	88.0	83.8	60.1	56.2	53.2	60.1	64.1	67.2	80.3	84.3	95.4	94.3	85.1	
	AV MIN		58.1	57.3	48.4	48.7	35.2	37.5	33.9	32.7	37.7	43.4	44.4	48.1	57.4	57.4	48.0	
MERCED RIVER																		
RAYMOND 9 N	EVAP	-	-	-	-	-	-	1.55E	1.04E	1.84	2.98	3.40	7.11	7.29	-	-	RE	-
	PRECIP	25.20	0.00	0.23	0.00	2.31	4.86	7.80	2.74	0.97	1.94	4.35	0.00	0.00	-	-	RE	-
	WIND	4680	804	M	M	344	269	258	690	429	497	287	435	667	-	-	RE	-
	AV MAX		97.9	98.4M	M	84.2	61.0	57.4	55.6M	61.7	65.0M	67.5	80.3	87.1M	-	-	RE	-
	AV MIN		58.2	49.8M	M	50.1	36.2	38.1	35.0M	33.9	38.0M	43.9	43.0	48.7M	-	-	RE	-
TULARE LAKE BASIN																		
TULARE LAKE VAL FL																		
ARVIN FRICK	EVAP	62.21	8.98	8.32	5.98	4.29	1.90	1.54	1.29	2.40	4.55	4.98	9.00	8.98	9.91	8.98	6.34	64.16
	PRECIP	6.12	T	0.08	0.00	0.56	0.66	1.44	0.68	0.26	0.84	1.60	0.00	0.00	0.32	0.25	0.10	6.17
	WIND	22100	1580	1410	1350	1230	1320	1840	1700	1800	2550	2250	2660	2420	2119	1445	1577	22900
	AV MAX		94.0	92.0	86.0	82.0	58.0	56.0	53.0	59.0	66.0	69.0	79.0	83.0	94.0	94.0	83.0	
	AV MIN		59.0	58.0	48.0	47.0	33.0	35.0	33.0	31.0	40.0	44.0	46.0	52.0	59.0	60.0	48.0	
CORCORAN EL RICO 1	EVAP	85.84	14.99	13.79	9.14	6.03	1.60	0.78	0.68	2.54	4.53	6.19	13.18	12.39	13.98	12.62	8.27	82.76
	PRECIP	5.81E	0.00	0.00	0.33E	0.79	0.66	0.91	0.87	0.28	0.22	1.75	0.00	0.00	0.00	0.00	0.00	5.48
	WIND	-	2430	2240	1850	1380	1360	1430	1120	1320	1660	2150	-	2400E	1850	1820	1440	-
	AV MAX		99.0	97.2	88.1M	83.1	60.2	56.2	-	-	-	69.4	82.5	86.1	96.2	95.0	85.2	
	AV MIN		60.6	60.7	51.6M	52.7	41.1	42.7	-	-	-	46.1	47.7	53.7	60.0	60.2	51.9	
U S COTTON FIELD STA	EVAP	84.30	13.00	11.60	8.51	5.39	1.72E	1.36	1.20	3.48	5.34	7.50	12.90	12.30	12.45	10.55	8.31	82.50
	PRECIP	6.72	0.01	0.05	0.25	0.65	0.49	1.09	0.67	0.26	0.93	2.32	0.00	0.00	0.31	0.00	0.03	6.75
	WIND	21600	1580	1420	1350	1250	1150	1350	1260	1500	2140	2320	3350	2960	1780	1300	1580	24600
	AV MAX		96.6	94.4	87.1	83.6	60.7	58.3	54.0	62.0	67.9	72.3	82.8	85.6	94.5	94.5	84.0	
	AV MIN		64.8	93.6	54.7	53.3M	39.4	40.1	37.8	36.9	46.0	49.0	51.5	56.4	63.7	64.7	54.6	
KINGS RIVER																		
PINE FLAT DAM	EVAP	66.21	12.42	11.47	7.87	5.48	1.47	0.73	0.90	1.83	3.23	3.77	8.26	8.78	10.73	10.38	7.45	63.01
	PRECIP	21.00	0.00	0.01	0.45	1.20	3.79	4.47	3.83	0.34	1.89	4.99	0.03	0.00	T	0.10	0.00	20.64
	WIND	9560	915	927	867	830	716	668	851	725	704	732	865	760	734	847	835	9270
	AV MAX		98.5	98.0	88.9	85.2	61.9	56.9	53.0	60.5	65.5	68.3	82.2	86.4	97.1	98.1	86.7	
	AV MIN		60.8	61.0	51.8	49.5	35.4	38.0	35.2	34.3	41.0	46.8	47.8	52.7	59.2	61.6	51.4	

TABLE A-6 (Cont.)

EVAPORATION DATA

SAN JOAQUIN DISTRICT

Station Name		Total July 1 To June 30	1964						1965									Total Oct 1 To Sept 30
			July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	
KAWEAH RIVER																		
TERMINUS DAM	EVAP	84.06	14.99	14.01	10.19	8.13	2.40	1.34	1.23	2.37	3.75	4.96	10.10	10.59	13.12	11.57	8.39	77.95
	PRECIP	15.46	0.00	0.00	0.39	1.28	2.28	3.74	2.92	0.47	1.17	3.21	0.00	T	0.01	0.05	0.30	15.46
	WIND	19500	1760	1830	1930	2070	1830	1750	1580	1550	1190	1110	1490	1430	1520	1670	1680	18800
	AV MAX		96.5	95.8	86.8	83.3	60.8	57.0	52.8	59.5	64.8	68.8	80.9	84.4	94.2	94.8	84.1	
	AV MIN		65.9	66.3	58.2	56.7	41.0	41.5	38.5	39.6	44.3	48.9	51.6	54.5	63.2	64.6	55.0	
TULE RIVER																		
SUCCESS DAM	EVAP	80.18	14.20	12.65	9.09	7.09	2.12	1.21	1.13	2.23	4.03	5.11	10.50	10.82	13.25	12.29	8.88	78.66
	PRECIP	12.90	0.00	0.00	0.33	1.28	2.57	2.03	1.81	0.17	1.15	3.56	0.00	0.00	0.03	0.23	0.13	12.96
	WIND	17900	1800	1740	1660	1670	1360	1360	1170	1370	1330	1140	1620	1650	1640	1580	1630	17500
	AV MAX		98.3	97.6	89.0	84.8	61.7	57.7	54.3	60.5	66.0	70.0	82.2	85.3	95.2	95.8	85.1	
	AV MIN		65.1	64.3	56.5	55.8	40.8	41.0	38.1	38.0	44.3	48.2	51.2	55.9	63.3	64.4	56.4	
KERN RIVER																		
ISABELLA DAM	EVAP	79.78	13.90	12.88	9.33	6.68	2.56	2.10	1.71	2.99	4.00	4.49	8.81	10.33	11.95	10.47	8.29	74.38
	PRECIP	11.91	0.00	0.00	0.01	0.47	1.82	3.49	1.75	0.27	1.21	2.58	0.18	0.13	0.39	0.50	0.20	12.99
	WIND	23400	2230	2090	1750	1480	2040	2390	1550	1540	2080	1880	2080	2250	1610	1520	1760	22200
	AV MAX		91.6	96.3	88.7	85.7	59.5	57.1	56.4	62.1	60.4	64.7	74.6	81.3	94.1	93.6	83.2	
	AV MIN		62.3	62.6	51.1	48.4	37.7	39.1	34.6	34.1	38.5	42.2	47.0	52.3	60.0	60.4	50.4	
TEHACHAPI MTN																		
CUMMINGS VALLEY 2	EVAP	74.71	10.95	9.22	8.21	5.95	4.37	2.64	3.53	3.68	4.20	4.56	8.54	8.86	11.17	9.74	7.74	74.98
	PRECIP	12.16	0.05	0.04	0.04	0.49	2.40	2.86	1.01	0.37	1.35	3.53	0.00	0.02	0.22	0.18	0.10	12.61
	WIND	30700	1880	1900	2060	1830	3070	4030	3180	2620	2970	2210	2710	2260	1920	1780	1890	30500
	AV MAX		84.4	83.8	78.9	76.1	53.3	51.5	53.0	56.0	53.2	57.6	66.9	73.2	83.4	83.4	75.2	
	AV MIN		47.4	46.3	38.7	40.5	32.8	31.0	30.3	26.2	30.7	34.7	33.7	39.1	43.6	45.7	37.5	
TULARE L BAS WESTSIDE																		
TAFT KTKR RADIO	EVAP	93.87	15.49	13.93	9.82	7.49	2.81	2.04	1.51	3.28	5.63	6.74	12.57	12.56	15.07	13.49	9.90E	93.09E
	PRECIP	5.46	T	0.03	0.33	0.83	0.69	0.54	0.79	0.30	0.40	1.85	0.00	0.00	0.05	0.17	0.11	5.43
	WIND	17300	1200	1080	1240	1100	1380	1340	1100	1270	1830	1840	2290	1650	1170	1120	1300	17400
	AV MAX		95.3	95.5	86.2	82.6	60.2M	59.1	54.1	60.4	65.6	68.0	80.5	84.4	93.9	93.5M	83.3	
	AV MIN		66.5	65.6	57.4	56.2	40.1M	39.5	36.7	37.1	44.0	48.0	52.2	55.9	65.3	65.7M	54.8	

APPENDIX B

SURFACE WATER FLOW

APPENDIX B. SURFACE WATER FLOW

Introduction

This appendix presents surface water data for the 1965 water year which is from October 1, 1964, to September 30, 1965. The data presented consist of daily mean discharge, daily mean gage heights, station locations, diversion quantities, imported water, exported water, summary tables of monthly and annual unimpaired runoff from major streams, changes to previous reports, and storage in major reservoirs.

The daily discharge tables show the daily mean discharge in cubic feet per second, maximum and minimum monthly discharge, monthly acre-feet total, and the total acre-feet for the water year. Also shown are the station location description, maximum discharge of record, date of occurrence, as well as gage datum, drainage area and other useful information.

Tables of daily mean gage heights are presented for key stations on major streams in the San Joaquin Valley. Also shown in these tables are the major crests and times of occurrence.

Diversion tables are presented for diversions from the major streams, and are shown as monthly acre-feet and total acre-feet for each diversion, as well as total acre-feet for a certain reach of a stream.

Measurement Techniques

Definitions of Terms and Abbreviations

Gaging station is a particular site on a stream, canal, lake or reservoir where systematic observations of gage height or discharge are obtained.

Cubic foot per second (cfs) is a unit expressing rate of discharge. One cubic foot per second is equal to the discharge of a stream of rectangular cross section one foot wide and one foot deep, flowing at an average velocity of one foot per second.

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

Drainage area of a stream above a specific location is that area, measured in a horizontal plane, which is enclosed by a drainage divide.

Unimpaired runoff is the flow that would occur naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and (3) no change in ground water storage resulting from development. Unimpaired flow is computed from measured runoff by allowing for man-made changes in natural conditions.

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

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

Contents is the volume of water in a reservoir or lake, unless otherwise indicated. Volume is computed on the basis of a level pool and does not include bank storage.

Methods and Procedures

The field activities include the construction and maintenance of stream gaging stations, and the collection of basic data at these stations such as records of stage and measurements of discharge. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. Records of stage are obtained from a water stage recorder that gives a continuous record of the fluctuations (for digital recorders, a tape punched at 15-minute intervals), or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter by the general method adapted by the Department which conforms to that used by the U. S. Geological Survey, or by indirect method such as slope area in instances where it was impossible to obtain current meter measurements.

Rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements to which curve a formula is related. This formula is used by an electronic computer in computing the discharge.

The field work also consists of obtaining discharge measurements of water diverted for use. This is done by use of a Cox flow meter in closed conduits or current meter in open ditches.

The office work consists of preparation of hydrographic data for computation by machine methods, and the computation of the discharge of certain rivers and streams which are not readily computable by electronic computer. All diversion discharge computations are hand computed as are discharges for those streams or rivers where backwater or control structures affect the stage-discharge relationship.

Accuracy

A stage-discharge relationship or rating is developed for each stream gaging station where discharge is reported. The rating gives the flow in cubic feet per second for each gage height at the station. When flows at a single station occur in excess of 140 percent of the highest actual discharge measurement used in preparing the rating, the computed daily mean discharge from an electronic computer is shown as estimated. Normally, the rating is fairly permanent where there is a fixed channel and a fixed flow regimen at the station. The rating varies, however, where the bed of the channel is of loose shifting sand, or where aquatic growth builds up in the channel changing the flow regimen.

Where the rating is not permanent and varies periodically, more frequent measurement of discharge is necessary to accurately determine the daily mean discharge, and even then it is necessary to apply the shifting control method for determining the discharge.

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

Significant Figures

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

1. Daily flows, cubic feet per second

   0.0 - 99 two significant figures
   100 - up three significant figures

2. Means, cubic feet per second

   0.0 - 99.9 tenths
   100 - 999 three significant figures
   1000 - above four significant figures

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

Coding

Each gaging station is assigned a six-digit code to facilitate station identification. The method used in assigning these code numbers is as follows: The State was first divided into major hydrographic areas and each of these areas was assigned an alphabetic letter which is the first of the six-digit code. The second digit was obtained by dividing the major hydrographic areas into stream basins of primary importance and assigning to each basin a number, 0-8, with 0 generally being assigned to the valley floor. The third digit indicates the stream. The remaining three digits designate the relative number of the station on the stream system.

Where a stream crosses the valley floor the code designation changes to the extent that the first, second, and third digits are used to indicate the major hydrographic area, the valley floor designation, and the stream basin from which the stream originates. The fourth digit is then used to designate the stream. The two remaining digits indicate the relative station number. A number nine appearing in the fourth digit from the left indicates a gravity diversion station in all cases. Station numbers increase numerically proceeding upstream. When a minor tributary enters the stream system, the station numbers progress up the minor tributary and then up the main stem.

The first two symbols of this code number are shown in large red print on Plate 4. They signify the following hydrographic areas and units:

Hydrographic Area B

B0 - San Joaquin Valley Floor	B6 - Fresno-Chowchilla Rivers
B3 - Stanislaus River	B7 - San Joaquin River
B4 - Tuolumne River	B8 - San Joaquin Valley on West Side
B5 - Merced River	B9 - Sacramento-San Joaquin Delta

Hydrographic Area C

C0 - Tulare Lake Valley Floor	C4 - Green Horn Mountains
C1 - Kings River	C5 - Kern River
C2 - Kaweah River	C6 - Tehachapi Mountains
C3 - Tule River	C7 - Tulare Lake Basin on West Side

The third, fourth, fifth, and sixth symbols of the code are shown at the recording station locations on Plate 4. All six symbols are indicated on the hydrographic area index, and on the table for each individual gaging station.

The identification code number for water quality sampling stations has two additional digits. If the seventh and eighth digits are .00 it indicates that the sampling is done at a gaging station. If these digits are .02 it indicates the sampling is done within one mile upstream from a gaging station and if .98 it indicates the sampling is done within one mile downstream. If the sampling is done in excess of one mile from a gaging station, this point is numbered with a six-digit number as if it were at a gaging station, followed in the seventh and eighth digits by .50. All eight digits are indicated on the table for each individual sampling point.

Examples

Station: North Fork Merced River near Coulterville

Number: B 5 2 6 0 0

Hydrographic Area B

River Basin 5

River Main Branch 2

Relative Number 6 0 0

Station: Merced River at Cressey

Number: B 0 5 1 5 5

Hydrographic Area B

Valley Floor 0

River Basin 5

River Main Branch 1

Relative Number 5 5

Station: San Joaquin River at Maze Road Bridge

Number: B 0 7 0 4 0

Hydrographic Area B

Valley Floor 0

River Basin 7

River Main Branch 0

Relative Number 4 0

Station: San Joaquin River at Maze Road Bridge

Number: B 0 7 0 4 0 .00

Hydrographic Area B

Valley Floor 0

River Basin 7

River Main Branch 0

Relative Number 4 0

Sampling Station .00

Explanation of Tables

The tabular data presented in this appendix are divided into general categories of runoff comparisons, lakes and reservoirs, imported and exported water, daily mean discharge, daily mean gage heights, and diversions.

The area to which these data pertain is shown as Area IV on page iii and on Plate 4.

Runoff Comparisons

Runoff conditions from year to year for a particular stream are compared to the mean runoff for that stream over a long period of time. The mean runoff is a base or normal used to compare runoff with any other year. Flow conditions on all major streams entering the valley are affected by man-made impairments such as reservoirs and diversions; therefore, the runoff comparisons are made with computed natural runoff which allows for effects of impairments. These computed natural or unimpaired runoffs are considered to be the flows that would occur if no impairments were above the points of measurement. Runoff normals are computed for the 50-year period October 1910 through September 1960.

The annual unimpaired runoff in percent of average for the 50-year normal for the period 1910 through 1960 on major streams in the San Joaquin District area is shown in Table B-1. The monthly unimpaired runoff for 1965 in percent of average based on the same 50-year period is shown for the same streams in Table B-2.

Lakes and Reservoirs

There are 59 principal reservoirs in the State, 25 of which are located in the San Joaquin District. These 25 have a storage capacity of 4,727,530 acre-feet. The storage capacity, water in storage on October 1, 1964, and storage on October 1, 1965, in these major San Joaquin Valley reservoirs are shown in Table B-3.

Gaging Station Additions and Discontinuations

Presented in Table B-4 are gaging stations added to or discontinued from the network.

Daily Mean Discharge

Presented in Table B-5 are daily mean discharge records, gaging station locations, period of record, maximum flow of record, maximum and minimum flow for the season, and total flow in acre-feet for the 1965 water year.

The streamflow tables are arranged, for each stream or stream system, in downstream order. Stations entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

Streamflow Measurements at Miscellaneous Locations

Presented in Table B-6 are tabulations of streamflow measurements on various streams at locations other than those where continuous recorders are maintained.

Diversions

Presented in Table B-7 are the amounts of water diverted for irrigation during the period October 1, 1964, through September 30, 1965. The amounts of water diverted by pumping were determined by rating the capacity of each diversion pumping plant and collecting data on hours of operation. The amounts of water diverted by gravity (indicated by "Gravity" in column headed "number and size of pump") were determined either by calibrating suitable measuring devices or by rating canals in a manner similar to that used to rate streamflow stations. The monthly and annual diversion values are reported in acre-feet.

Table B-8 shows the amount of water diverted by eastside canals and the several eastside irrigation districts that divert water from the San Joaquin, Merced, Tuolumne, and Stanislaus Rivers. Table B-9 shows the deliveries from the Central Valley Project canals. The data presented in Tables B-8 and B-9 are supplied by other agencies and are published as received. They are not necessarily rounded to significant figures which are used for data computed by the Department of Water Resources.

Imported and Exported Water

Water is imported to the San Joaquin Valley from the Sacramento-San Joaquin Delta via the Delta-Mendota Canal. The amount of water imported is shown in Table B-10.

Water is exported from the San Joaquin Valley via the Hetch-Hetchy Aqueduct from the Tuolumne River to the City and County of San Francisco. Table B-10 shows the amount of that export.

Daily Mean Gage Heights

Presented in Table B-11 are records of daily mean gage heights for key stations on major streams in the San Joaquin Valley for the 1964-65 water year.

At the bottom of this table are shown the major river crests occurring during the water year. The table also shows the location of the station, maximum gage height of record, period of record, and gage datum. The elevation of water surface at the gaging station is obtained by adding the gage height reading to the elevation of the gage datum presented in each table.

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT AND CREST STAGES

	Page: Daily Mean Discharge	Page: Daily Mean Gage Height and Crest Stages
Bear Creek below Bear Reservoir	73	
near Catheys Valley	72	
Big Creek Diversion near Fish Camp	59	
Buena Vista Creek near Taft	112	
Burns Creek below Burns Reservoir	75	
at Hornitos	74	
Campbell-Moreland Ditch above Porterville	101	
Chowchilla River near Raymond		129
East Fork near Ahwahnee	63	
Middle Fork near Nipinnawasee	65	
West Fork near Mariposa	64	
Cross Creek below Lakeland Canal #2	95	
Delta-Mendota Canal near Tracy	56	
to Mendota Pool	57	
Deer Creek at Terra Bella Irrigation District	110	
Dry Creek near Modesto	87	144
Eastside Bypass near El Nido	67	
Elk Bayou near Tulare	96	
Fresno River, Lewis Fork near Oakhurst	60	
Friant-Kern Canal Delivery to Porter Slough	97	
to Tule River	98	
Hubbs-Miner Ditch at Porterville	107	
Kern River near Bakersfield	111	
Kings River, South Fork below Empire Weir #2	94	
Mariposa Bypass near Crane Ranch	70	
Mariposa Creek near Catheys Valley	68	
below Mariposa Reservoir	69	
Maxwell Creek at Coulterville	79	
Merced River at Cressey	81	134
below Snelling	80	133
near Livingston		135
North Fork near Coulterville	78	
Miami Creek near Oakhurst	61	
Millerton Lake, Daily Inflow	54	
Daily Content	154	
Orestimba Creek near Crows Landing	82	
Owens Creek below Owens Reservoir	71	
Panoche Drain near Dos Palos	77	
Poplar Ditch near Porterville	106	
Porter Slough at Porterville	102	
near Porterville	104	
Porter Slough Ditch at Porterville	103	
Rhodes-Fine Ditch near Porterville	108	
San Joaquin River at Crows Landing Bridge		137
near Dos Palos	62	
at Fremont Ford Bridge		132
below Friant	55	128
at Grayson	83	139
at Hetch Hetchy Aqueduct Crossing	89	
at Maze Road Bridge		147
near Mendota	58	
near Newman		136
at Patterson Bridge		138
above Sand Slough near El Nido		130
near Stevinson	76	131
near Vernalis	93	153
at West Stanislaus Irrigation District Intake		140
Stanislaus River at Koetitz Ranch	92	151
near Mouth		152
at Orange Blossom Bridge	90	148
at Ripon		150
at Riverbank	91	149
Striped Rock Creek near Raymond	66	
Tulare Lake		127
Tule River below Porterville	100	
North Fork at Springville	99	
Tuolumne River at Hickman Bridge	86	143
at La Grange Bridge	84	141
at Modesto		145
at Roberts Ferry Bridge	85	142
at Tuolumne City	88	146
Vandalia Ditch near Porterville	105	
Woods-Central Ditch near Porterville	109	

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- Woods-Central Ditch near Porterville 109
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- Buena Vista Creek near Taft 112

TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

In percent of average [a]

Water Year	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus (c)	Tule River Inflow to Success	Kern River Inflow to Isabella
Average Annual Runoff (a)	1090	1776	927	1670	5463	1570	385	127	617
1924-25	112	109	98	86	101	82	85		
1925-26	56	63	66	70	64	66	57		
1926-27	125	115	117	120	119	126	126		
1927-28	87	86	79	69	80	62	53		
1928-29	47	55	52	52	52	54	58		
1929-30	67	65	55	51	60	55	57		54
1930-31	29	34	28	29	30	30	30	19	30
1931-32	124	119	120	123	121	133	135	109	113
1932-33	56	63	56	67	60	75	74	63	69
1933-34	39	46	39	41	41	42	34	16	37
1934-35	111	119	126	115	118	103	93	70	74
1935-36	121	122	124	111	120	120	126	134	121
1936-37	102	113	131	132	120	149	176	241	180
1937-38	188	193	224	221	206	209	226	279	209
1938-39	48	55	51	55	52	62	64	65	73
1939-40	128	125	118	113	121	114	133	166	113
1940-41	123	141	157	159	145	162	167	186	202
1941-42	136	134	139	135	136	128	127	107	122
1942-43	144	134	139	123	135	129	174	287	163
1943-44	62	74	74	76	72	74	82	80	94
1944-45	117	118	118	128	120	131	143	160	131
1945-46	108	106	102	104	105	103	93	74	105
1946-47	58	62	61	67	62	71	69	41	69
1947-48	82	80	74	73	77	63	68	50	54
1948-49	68	70	69	70	69	61	57	38	48
1949-50	99	87	78	78	86	82	78	49	70
1950-51	155	140	132	111	134	102	109	122	86
1951-52	176	168	169	170	171	182	214	252	226
1952-53	89	86	68	73	79	74	80	78	88
1953-54	82	81	72	79	78	83	79	70	81
1954-55	62	64	58	70	64	71	72	51	58
1955-56	173	178	181	177	177	162	188	165	141
1956-57	82	80	70	79	78	79	77	51	71
1957-58	154	149	152	158	153	157	166	176	171
1958-59	54	56	49	57	54	51	40	25	44
1959-60	54	59	52	50	54	45	47	38	45
1960-61	37	41	34	39	38	36	30	15	28
1961-62	91	100	100	115	102	117	103	68	106
1962-63	116	116	106	117	114	119	130	94	120
1963-64	60	64	49	55	58	54	60	47	51
1964-65	163	155	144	136	149	123	127	107	111

a Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1910 through September 1960.
b Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries or from valley floor.
c Formerly Kaweah River near Three Rivers.

TABLE B-2

MONTHLY UNIMPAIRED RUNOFF

In percent of avarage[a]

Month		Stanislaue River below Melones P. H.	Tuolumne River below La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (b)	Kinge River Inflow to Pine Flat	Kaweah River Inflow to Terminue (c)	Tule River Inflow to Succeee	Kern River Inflow to Isabella
October	Percent[d]	33	50	46	53	48	47	54	75	60
	Average	8	15	7	19	49	19	4	1	14
Novamber	Percent	94	140	124	125	124	125	121	112	78
	Average	22	37	17	27	102	25	8	8	18
December	Percent	896	708	567	382	639	321	257	216	188
	Average	44	73	38	53	209	45	16	8	23
January	Percent	380	298	339	288	321	253	231	197	172
	Average	59	98	54	65	276	56	19	12	25
February	Percent	119	106	79	126	108	100	99	65	96
	Average	82	135	78	91	386	77	27	18	30
March	Percent	84	80	69	95	83	81	72	41	69
	Average	120	179	99	135	533	112	39	26	47
April	Percent	128	116	111	104	114	98	104	121	83
	Average	202	284	148	241	875	215	63	24	89
May	Percent	101	102	104	101	102	96	98	95	86
	Average	296	447	244	428	1415	428	102	21	149
June	Percent	122	130	132	122	126	119	141	130	118
	Average	188	368	179	386	1121	384	75	9	125
July	Percent	178	207	183	167	182	152	181	152	157
	Average	52	113	50	160	375	148	23	2	59
August	Percent	343	481	335	308	354	257	285	380	211
	Average	12	19	10	45	85	42	6	0	24
September	Percent	279	292	93	184	211	149	187	400	154
	Average	5	8	4	19	37	18	3	0	14
1964-65 Water Year	Percent	163	155	144	136	149	123	127	107	111
	Average	1090	1776	927	1670	5463	1570	385	127	617

a Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1910 through September 1960.
b Figurea were computed from summations of unimpaired runoff at foothill etations on major tributarice only and do not include runoff from minor tributaries or from the valley floor.
c Formerly Kaweah River near Three Rivers.
d Percentagea are preliminary values and subject to revision.

TABLE B-3

SUMMARY OF PRINCIPAL RESERVOIR STORAGE
IN THE SAN JOAQUIN VALLEY

(In acre-feet)

Watershed	Reservoir	Total Capacity	In Storage Oct. 1, 1964	In Storage Oct. 1, 1965
Stanislaus				
	Relief	15,560	11,530	0
	Strawberry	18,270	9,190	11,870
	Melones	112,600	10,450	14,780
	Donnells	64,500	21,800	47,896
	Beardsley	97,500	77,313	87,177
	Tulloch	68,400	23,670	56,279
Tuolumne				
	Lake Eleanor	26,100	4,650	1,040
	Lake Lloyd	268,000	25,700	143,070
	Hetch Hetchy	360,400	230,490	267,660
	Don Pedro	290,000	111,040	94,140
	Turlock Lake	49,000	17,830	31,380
Merced				
	Lake McClure	289,000	0	102,580
San Joaquin				
	Crane Valley	45,400	24,200	20,760
	Lake Thomas A. Edison	125,000	50,100	98,960
	Florence Lake	64,600	237	270
	Mammoth Pool	122,700	27,010	34,580
	Huntington Lake	89,800	49,720	85,510
	Redinger Lake	35,000	9,840	25,390
	Shaver Lake	135,400	15,550	80,960
	Millerton Lake	520,500	172,400	167,200
Kings				
	Wishon	128,300	58,980	31,020
	Pine Flat	1,001,500	191,860	457,710
Kaweah				
	Terminus	150,000	7,500	9,800
Tule				
	Success	80,000	9,260	6,970
Kern				
	Isabella	570,000	96,970	176,160
TOTAL		4,727,530	1,257,290	2,053,162

TABLE B-4

GAGING STATION
ADDITIONS AND DISCONTINUATIONS

ADDITIONAL STATIONS

Buena Vista Creek near Taft
Eastside Bypass near El Nido
Panoche Drain near Dos Palos
Deer Creek at Terra Bella Irrigation District

DISCONTINUED STATIONS

None

TABLE B-5

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	B71121	MILLERTON LAKE AT FRIANT, DAILY INFLOW

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	116	460	691	2965	3204	3198	3086	3662	6753	4197	2718	3006	1
2	466	484	734	2863	3108	3065	2994	3558	5946	4019	2727	2957	2
3	127	418	650	2965	3043	2979	2836	3521	5115	4489	2694	2956	3
4	100	363	858	3144	3119	3639	2726	3250	5793	4506	2733	2973	4
5	394	328	674	4814	3280	3329	2792	3232	7056	4714	2891	2962	5
6	461	336	803	5921	3585	2823	3024	3242	7350	4718	2694	2911	6
7	411	376	720	6187	3333	2809	3122	3256	6735	4821	2755	3038	7
8	407	421	463	4010	3208	2789	3526	3253	6891	4606	2638	3009	8
9	492	702	666	2846	3325	2999	4261	3180	5674	4165	2652	3063	9
10	233	1151	491	2746	3207	3113	4876	3175	5422	3841	2700	3059	10
11	88	486	568	2354	3194	3009	4417	3187	6807	3628	2646	2901	11
12	326	1441	787	2982	3055	3390	4005	3247	7149	3573	2675	3120	12
13	326	1647	825	3107	2977	3399	4177	3212	7019	3601	2737	3114	13
14	64	652	467	3048	3045	3106	3967	3260	5837	3079	2679	3033	14
15	288	620	691	2984	2790	3300	3944	3226	5499	3062	2566	3081	15
16	333	484	454	3012	3036	3126	3799	3180	4732	3489	2747	3025	16
17	303	1141	635	3083	3041	3141	3770	3400	4385	3483	2879	3021	17
18	276	521	610	3109	3082	3054	3482	3505	4106	3454	3281	2527	18
19	333	721	720	3046	3046	3014	3383	3487	3920	3586	2880	2537	19
20	303	916	1424	2956	3038	2944	3608	3497	4718	3524	2917	2397	20
21	811	650	1116	2980	3145	2956	3426	3445	5575	3571	2791	2584	21
22	585	789	1284	2966	3045	2972	3405	3438	5818	3374	2737	2404	22
23	747	833	5710	3406	3064	2850	3421	3321	5520	2921	2730	2443	23
24	701	878	6505	4143	3169	2823	3345	3259	4755	2893	2716	2413	24
25	281 a	839	4361	3437	3004	2958	3422 b	3190	4387	2795	2817	2000	25
26	570	816	3283	3226	3021	2958	3520	3270	3802	2860	2474	1566	26
27	762	906	5623	3246	3089	2731	3686	3363	3633	2854	2471	1497	27
28	770	839	3643	3203	3106	2500	3700	3479	3788	2745	2502	1764	28
29	812	517	2616	3120		3064	3675	3495	3936	2676	2658	1705	29
30	841	714	2892	2575		2952	3657	3796	3974	2678	2754	1587	30
31	625		3367	2530		3596		5912		2535	2621		31
MEAN	431	715	1753	3322	3120	3051	3568	3435	5403	3563	2719	2622	MEAN
MAX.	841	1647	6505	6187	3585	3639	4876	5912	7350	4821	3281	3120	MAX.
MIN.	64.0	328	454	2354	2790	2500	2726	3175	3633	2535	2471	1497	MIN.
AC. FT.	26507	42543	107804	204246	173274	187608	212052	211236	321511	219088	167167	156006	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF ND FLOW
\# — E AND *
a - 23-HOUR DAY
b - 25-HOUR DAY

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2803											2029042

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 00 00	119 42 10	SW 5 11S 21E				OCT 41-DATE		1941		0.00	USCGS

Station located near center of Friant Dam on San Joaquin River, immediately above Cottonwood Creek, 0.9 mile northeast of Friant. Usable capacity, 503,000 acre-feet between elevations 375.4 and 578.0 feet above mean sea level. Not available for release, 17,400 acre-feet. Inflow to Friant Reservoir takes into account change in storage, release, spill, precipitation, and evaporation, and is representative of the natural flow which would pass the damsite if the dam had not been constructed. Figures shown under total discharge are computed inflow to the reservoir. Period of Record for computed inflow is shown under period of record for discharge. Records furnished by U. S. Bureau of Reclamation. Drainage area is 1,633 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	109	83	64	38	46	58	78	79	84	132	96	99	1
2	108	82	64	35	46	58	79	79	90	132	96	101	2
3	108	78	64	36	44	56	60	82	96	132	99	101	3
4	108	71	64	38	44	56 •	59	91	96 •	132	118	101	4
5	109	70	63	41	46	55	59	99	98	132	128	99	5
6	109	70	63	50	51	55	60	99	98	132	128	101	6
7	109	71	64	88	48	55	65	99	99	140	160	101	7
8	109	71	65	61	43	55	57	99	101	149	188	102	8
9	109	73	65	54	42	55	49	98	113	180	193	108	9
10	109	74	65	50	41	59	67	98	118	212	204	104	10
11	108	71	65	48	41	65	70	98	120	210	193	102	11
12	106	73	65	46	40	69	55	98	126	210	164	101	12
13	108	73	65	44	40	68	56	98	128	207	153	101	13
14	108	71	64	43	41	55	55	98	128	207	151	101	14
15	106	71	64	47	41	54	49	98	130	207	151	101	15
16	101	67	64 •	49	39	54	47	99	128	207	151	101	16
17	99	60	64	48	39	54	45	99	128	207	151 •	99	17
18	99	61	64	48	42	54	44	99	128	204	151	99	18
19	94	61	65	49	52	54	42	99	130	204	151	99	19
30	91	60 •	65	53	54	53	42	99 •	132	204 •	151	99	20
31	91	60	64	49 •	54	53	42	99	130	170	153	96	31
22	90	60	65	47	55	54	42	101	132	130	153	93 •	22
23	90 •	60	68	46	55	60	41	101	132	130	149	96	23
34	90	60	68	58	55 •	70	39	99	132	130	138	88	24
25	90	62	69	50	55	70	39	94	132	118	132	83	25
26	90	63	69	47	55	70	38	88	132	106	132	83	26
37	90	61	68	47	57	73	47	88	132	106	120 •	74	37
28	98	61	53	46	58	74	73	83 •	132	99	109	67	38
39	94	61	36	46 •		72	73	83	130	96 •	109	67 •	39
30	91	63 •	35	48		71	76	83	132 •	96	109	63	30
31	85		38 •	46		73		83		96	104		31
MEAN	100	67.4	61.9	48.3	47.3	60.7	54.6	93.9	120	155	141	94.3	MEAN
MAX.	109	83.0	69.0	88.0	58.0	74.0	78.0	101	132	212	204	108	MAX.
MIN.	85.0	60.0	35.0	35.0	39.0	53.0	38.0	79.0	84.0	96.0	96.0	63.0	MIN.
AC. FT.	6160	4010	3810	2970	2630	3730	3250	5770	7110	9550	8700	5610	AC FT

E — ESTIMATED
NR — NO RECORD
• — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
K — E AND •

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
87.4											63310

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	OF RECORD CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT 07-DATE		1938	--	294.00	USGS

Station located 1 mile downstream from Friant Dam. Flow regulated by Millerton Lake. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	B6903-	DELTA-MENDOTA CANAL NR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2751	1560	0.0	0.	1520	2382	1431	2849	[illegible]	364[illegible]	4151	2459	1
2	2737	715	0.0	0.	575	2381	1467	2731	[illegible]	3701	4152	2510	2
3	2520	84	0.0	0.	683	2522	868	2855	[illegible]	3771	4025	2455	3
4	2522	642	0.0	0.	720	253	868	2843	3256	3762	4221	2456	4
5	2519	643	0.0	0.	721	2551	860	2919	3282	3760	4428	2468	5
6	2523	536	0.0	0.	722	2591	868	3064	3353	3885	4408	2459	6
7	2655	537	0.	0.	721	2273	869	3061	3378	4220	4289	2169	7
8	2993	537	0.0	0.	859	2238	87	3126	3377	4322	4291	1956	8
9	2414	539	0.0	0.	938	2243	726	3123	3377	4256	4226	1846	9
10	2415	536	0.	0.	1381	2208	576	3138	3383	4343	4157	1535	10
11	2379	536	0.0	0.	1136	2247	432	3123	3300	4344	4065	1499	11
12	2302	535	0.0	0.	1227	2271	432	3069	3391	4305	3867	1498	12
13	2281	536	0.0	0.	1231	2134	432	3448	3495	4364	3700	1503	13
14	2304	716	0.0	0.	1276	1812	433	3569	3491	4235	3636	542	14
15	2046	715	0.0	0.	1223	1814	578	3573	3491	4237	3630	1728	15
16	2043	715	0.0	0.	1369	1813	577	3568	3713	4301	3635	1735	16
17	1992	533	0.0	0.	1466	2343	723	3515	3777	4296	3506	1919	17
18	2058	525	0.0	0.	1670	2342	723	3376	3765	4286	3537	1920	18
19	2055	566	0.0	0.	1669	2127	787	3378	3958	4255	3533	1812	19
20	1990	558	0.0	0.	1739	1946	1141	3372	3957	4435	3506	1811	20
21	1930	717	0.0	0.	1952	1946	1518	3064	3956	4418	3901	1847	21
22	1729	716	0.0	0.	2020	1948	1729	3043	3767	4422	3863	1775	22
23	1737	701	0.0	0.	2300	1943	121	2975	3767	4435	3866	1777	23
24	1737	716	0.0	0.	2626	1944	1667	2914	3761	4426	3855	1779	24
25	1634 a	775	0.0	0.	2736	2269	1671 b	2697	3762	4426	3830	1773	25
26	1666	789	0.	0.	2846	2249	1672	2764	3764	4414	3156	1813	26
27	1664	786	0.0	0.	2784	2199	1742	2771	3827	4426	3132	1864	27
28	1661	571	0.0	114	2384	1873	2248	2771	3835	4358	3025	1943	28
29	1661	570	0.0	1700		1874	2535	2918	3774	4198	2878	1985	29
30	1659	499	0.	1733		1813	2601	2924	3646	4157	2894	2017	30
31	1723		0.	1738		1820		2931		4151	2315		31
MEAN	2145	655	0.0	170	1500	2150	1136	309	3678	4220	3725	1943	MEAN
MAX	2993	1560	0.0	1738	2846	2591	26 1	3573	3958	4435	4408	2809	MAX.
MIN	1659	499	0.0	0.	575	1812	432	269	3073	3640	2815	1438	MIN.
AC. FT.	132050	38999	0.0	10483	83294	132188	67468	190024	219434	259488	229061	115613	AC.FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *
a — 25-HOUR DAY
b — 23-HOUR DAY

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2033											1471602

LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	MAXIMUM DISCHARGE OF RECORD CFS	GAGE HT.	DATE	PERIOD OF RECORD DISCHARGE	GAGE HEIGHT ONLY	DATUM OF GAGE PERIOD FROM	TO	ZERO ON GAGE	REF. DATUM
37 47 45	121 35 05	SW 31 1S 4E				JUN 51-DATE		1951		0.00	USGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	80077	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1675	610	131	0.0	741	1795	1258	2215	[illegible]	[illegible]	2481	[illegible]	1
2	1655	491	254	0.0	392	1795	938	2354	2251	2372	2693	1994	2
3	1662	496	298	[illegible]	561	1754	[illegible]	2329	2228	[illegible]	[illegible]	[illegible]	3
4	1665	518	215	0.0	510	1798	630	2356	2263	2388	2572	[illegible]	4
5	1670	494	213	0.0	487	[illegible]	615	2401	[illegible]	[illegible]	2682	1771	5
6	1646	402	213	0.0	462	1774	[illegible]	2481	2276	2533	2651	1792	6
7	1651	402	213	[illegible]	440	1564	655	2392	2254	2549	2628	1659	7
8	2076	401	448	0.0	508	1548	[illegible]	236	2238	2735	2637	[illegible]	8
9	1390	379	90	[illegible]	622	1511	492	2352	[illegible]	2747	2678	1396	9
10	1401	358	9.0	[illegible]	796	148[illegible]	30[illegible]	2365	2250	2774	[illegible]	1178	10
11	1340	360	8.0	0.0	824	147[illegible]	3[illegible]	2334	[illegible]	2787	2534	483	11
12	1356	412	4.0	[illegible]	1033	144[illegible]	3[illegible]	2331	2225	2836	2384	[illegible]	12
13	1339	400	8.0	0.0	1028	1497	[illegible]	2271	[illegible]	2826	2417	1049	13
14	1268	474	8.0	0.0	1000	1183	317	2484	[illegible]	2716	2351	[illegible]	14
15	1050	500	54	0.0	1019	1163	35	2482	[illegible]	2813	2372	1125	15
16	1076	513	4.0	0.0	972	1233	[illegible]	2496	[illegible]	2753	2371	1219	16
17	1107	370	4.0	0.0	1164	1646	5[illegible]	246	[illegible]	2769	2389	1426	17
18	1108	372	4.0	[illegible]	1214	1636	5[illegible]	2253	[illegible]	2783	2319	1416	18
19	1122	369	4.0	[illegible]	1212	1499	633	2227	[illegible]	2744	2364	1331	19
20	1145	350	4.0	[illegible]	1532	128	938	2299	[illegible]	2786	[illegible]	1404	20
21	1125	481	0.0	[illegible]	1566	1271	141[illegible]	[illegible]	2687	2765	2449	1506	21
22	864	481	0.0	[illegible]	1581	1372	1364	1955	[illegible]	2778	2661	1395	22
23	682	453	0.0	0.0	1856	1336	[illegible]	[illegible]	[illegible]	2731	2690	1479	22
24	856 a	454	[illegible]	[illegible]	1999	134[illegible]	1467 b	201[illegible]	[illegible]	[illegible]	2449	1417	24
25	892	470	0.0	[illegible]	2 76	1644	148[illegible]	1813	[illegible]	2774	2437	1403	25
26	843	470	0.0	0.0	2196	15[illegible]	1522	1811	[illegible]	2790	[illegible]	1389	26
27	752	292	0.0	[illegible]	2157	1537	1422	1796	[illegible]	[illegible]	2132	1385	27
28	670	291	0.0	0.0	1810	1243	1953	1852	[illegible]	[illegible]	[illegible]	1422	28
29	660	291	0.0	[illegible]		1316	2138	1879	[illegible]	2783	2115	1451	29
30	658	207	0.0	0.0		13[illegible]	[illegible]	19[illegible]	[illegible]	2655	2135	1432	30
31	659		0.0	972		13[illegible]		[illegible]		2688	[illegible]		31
MEAN	1202	419	70.8	31.4	1134	1461	924	[illegible]	[illegible]	2693	445	1441	MEAN
MAX.	2076	610	448	972	2196	18[illegible]	[illegible]	[illegible]	[illegible]	2841	2693	[illegible]	MAX.
MIN.	658	207	0.0	[illegible]	392	11[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MIN.
AC. FT.	73985	24914	4336	1928	62491	91[illegible]43	54863	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *
a — 25-HOUR DAY
b — 23-HOUR DAY

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
1374											[illegible]

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 47 11	120 23 05	NW 19 13S 15E									

Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	807710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	238	37	55	17	3.0	278	202	396	401	397	411	337	1
2	248	36	47	17	4.0	209	191	381	418	424	450	311	2
3	238	36	39	16	5.0	241	142	336	421	428	469	276	3
4	226	36	38	16	7.0	288	109	314	424	434	441	236	4
5	209	36	38	16	9.0	288	96	366	426	436	416	229	5
6	182	38	38	15	11	294	157	386	424	444	378	264	6
7	148	38	45	14	13	298	278	396	424	474	384	328	7
8	111	38	54	12	14	256	224	381	414	474	394	318	8
9	98	37	55	10	16	217	142	384	401	444	401	276	9
10	87	34	53	10	17	191	98	391	391	431	401	256	10
11	86	33	52	9.0	18	189	96	398	384	431	396	209	11
12	86	30	53	8.0	19	193	93	388	384	426	396	182	12
13	98	31	51	7.0	22	196	92	361	386	428	398	219	13
14	118	32	50	5.0	24	202	98	361	396	454	411	254	14
15	103	36	45	61	100	189	116	361	406	461	411	271	15
16	74	41	36	96	158	196	131	366	401	472	416	286	16
17	90	35	19	60	158	226	134	354	404	485	418	258	17
18	108	37	18	41	173	238	156	314	416	496	418	238	18
19	103	53	18	27	207	219	169	294	426	469	426	236	19
20	100	68	18	19	221	186	189	321	434	431	428	236	20
21	96	78	18	15	219	177	212	354	438	418	426	254	21
22	92	78	17	14	234	205	200	324	436	408	421	278	22
23	95	65	17	12	258	241	226	308	431	396	401	296	23
24	103	55	17	12	306	248	268	294	416	408	401	301	24
25	101	54	17	11	364	231	288	288	388	418	396	298	25
26	88	55	17	10	346	184	288	276	386	411	391	288	26
27	66	58	17	9.0	328	175	291	276	388	401	404	271	27
28	82	60	17	8.0	318	180	394	301	391	398	411	256	28
29	93	59	17	7.0		169	464	301	394	394	414	261	29
30	88	58	17	6.0		177	411	301	394	401	384	231	30
31	62		17	4.0		209		334		401	348		31
MEAN	120	46.0	33.0	19.0	128	219	198	342	408	432	408	265	MEAN
MAX.	248	78.0	55.0	96.0	364	298	464	398	438	496	469	337	MAX.
MIN.	62.0	30.0	17.0	4.0	3.0	169	92.0	276	384	394	348	182	MIN.
AC. FT.	7370	2740	2000	1160	7090	13470	11810	21040	24280	26570	25110	15780	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
219											158420

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OF GAGE	REF. DATUM
36 48 37	120 22 35	SW 7 13S 15E	8840		6-1-52	OCT 39-DATE		1939		142.53	USBR

Station located 2.5 miles below Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 4,310 square miles. This station is equipped with DWR radio telemeter.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	867920	BIG CREEK DIVERSION NEAR FISH CAMP

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.5	7.5	7.8	13 F	19	19	34	[illegible]	56	25	9.2	4.0	1
2	1.7*	5.2	9.5	13 E	19	19	33	46	47 *	25	9.1	4.1	2
3	1.6	3.9	8.1*	16 E	19	19	32	44	49 *	24	8.3	4.0*	3
4	1.4	3.4*	7.1	18 E	18	19 *	33	43	54	23	8.2*	3.7	4
5	1.3	3.3	6.9	19 E	19	18	34	42	54	21	7.7	3.8	5
6	1.2	3.1	6.6	20	19	18	32	42 *	54	20 *	7.5	4.0	6
7	1.5	2.9	6.4	19	19	18	29 *	43	53	18	7.2	5.2	7
8	1.7	3.7	6.5	21	19	18	25	42	52	17	6.8	5.0	8
9	1.6	9.6	7.1	17	18 *	18	24	42	51	17	6.6	4.4	9
10	1.6	6.8	7.3	17	18	18	26	42	51	16	6.5	4.0	10
11	1.4	8.8	14	18	18	18	33	43	51	16	8.8	4.0	11
12	1.4	18	12	18 *	19	18	23	44	50	16	8.0	3.9	12
13	1.6	11	7.1	19	18	19	21	45	49	15	7.7	4.0	13
14	1.6	8.2	8.5	19	18	19	23	44	47	14	7.2	3.9	14
15	1.5	7.0	7.7	19	18	19	27	44	48	14	6.9	3.6	15
16	1.6	5.3	6.9	19	19	19	29	46	47	14	6.4	3.9	16
17	1.6	5.3	6.1	19	19	19	29	46	46	14	6.1	3.8	17
18	1.4	5.3	6.6	19	19	19	33	47	44	14	5.9	4.1	18
19	1.2	5.3	7.6	19	19	19	38	46	43	13	5.8	4.3	19
20	1.3	5.3	13	18	19	20	38	45	40	13	5.6	4.0	20
21	1.4	5.3	14	19	19	20	39	45	40	13	5.5	3.8	21
22	1.4	5.3	20	19	19	31	41	44	39	12	5.2	3.7	22
23	1.4	5.3*	17	20	19	45	42	42	37	12	5.2	3.6	23
24	1.3	6.3	14	20	19	44	44	42	36	12	5.1	3.4	24
25	1.2	7.3	11	21	19	37	47	42	34	11	5.1	3.4	25
26	1.1	8.4	12	19	19	36	48	42	33	11	4.7	3.4	26
27	1.4	7.3	11	19	19	36	50	48	30	10	4.2	3.9	27
28	3.2	6.8	10	18	19	33	52	56	30	9.9	4.3	4.2	28
29	13	7.0	11	18		32	52	57	28	9.4	4.4	2.9	29
30	5.0	7.3	13	19		34	53	57	27	9.4	4.1	3.7	30
31	3.8		18	19		35		57		9.7	4.0		31
MEAN	2.1	6.5	10.1	18.4	18.7	24.4	35.5	45.7	44.0	15.1	6.4	3.9	MEAN
MAX.	13.0	18.0	20.0	21.0	19.0	45.0	53.0	57.0	56.0	25.0	9.2	5.2	MAX.
MIN.	1.1	2.9	6.1	13.0E	18.0	18.0	21.0	42.0	27.0	9.4	4.0	2.9	MIN.
AC. FT.	127	387	622	1133	1039	1500	2110	2813	2618	929	391	233	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
R — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
19.2	58.0	1.87	6	1	0000	0.0		9	29	1750	13900

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B &M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 28 10	119 36 52	NE25 5S 21E		3.58	1-30-63	DEC 58-DATE		1958		0.00	LOCAL

Station located 195 feet above road culvert pipe, 1.4 miles southeast of Fish Camp. This is regulated diversion from Big Creek to Lewis Fork, Fresno River. Stage-discharge relationship at times affected by ice and extreme high flows affected by 36-inch culvert pipe below station. Altitude of gage is approximately 5,400 feet (from topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	B67325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.7	17	16	56	59	53	125	87	93	42	15	6.8	1
2	1.1*	17	26	53	57	73	133	87	90	42	14	7.2	2
3	0.6	12	24 *	71	58	75	111	83	81 *	39	13	6.8*	3
4	1.9	10 *	22	83	57	75	107	82	85	39	13 *	6.8	4
5	2.5	9.5	21	173	78	74 *	110	80	85	36	14	7.6	5
6	2.5	9.0	20	480	110	77	128 *	82 *	83	35 *	14	8.3	6
7	1.8	8.3	19	300	77	76	130	83	82	33	13	10	7
8	2.3	11	19	145	68 *	73	140	82	83	32	13	11	8
9	2.9	32	20	114	63	71	136	81	79	31	12	11	9
10	1.9	49	20	99	61	70	118	79	77	30	12	8.6	10
11	2.6	28	30	92	59	71	127	77	75	32	14	9.0	11
12	2.5	127 *	33	83 *	56	93	121	77	73	30	15	8.4	12
13	1.9	57	23	77	55	91	152	79	73	29	14	8.7	13
14	2.0	25	22	74	61	81	147	77	72	28	13	8.4	14
15	2.6	22	19	72	54	78	151	74	76	30 *	12	6.5	15
16	2.5	19	18	71	54	76	154	74	74	29	11	7.0	16
17	2.8	22	17	76	53	77	153	75	70	29	10	7.3	17
18	2.7	16	19	77	52	74	160	73	66	29	10	7.6	18
19	2.5	16	35	79	50	71	182	71	67	28	10	8.2	19
20	2.1	12	48	79	51	70	156	73	64	28	11	8.3	20
21	1.9	12	42	72	50	71	135	81	66	27	11	7.6	21
22	2.2	11	109	67	50	74	133	72	65	24	11	7.6	22
23	3.0	12	620 #	79	49	66	122	71	64	23 *	11	7.4	23
24	4.4	13	478	147	47	67	120	70	64	22	11	6.9	24
25	4.9	14	141	88	47	83	121	70	62	21	11	6.0	25
26	5.2	20	135	77	47	80	115	70	61	21	10	5.6	26
27	5.8	18	196	73	56	130	110	84	59	21	9.1	7.1	27
28	12	16	115	70	52	101	104	93	54	22	7.9	8.4	28
29	44 *	16	74	67		93	100	92	52	20	7.4	8.0	29
30	19	16	67	67		88	98	90	52	20	7.5	5.9	30
31	13		62	64		97		91		21	7.0		31
MEAN	5.1	22.2	81.0	104	58.3	79.0	130	79.4	71.6	28.8	11.5	7.8	MEAN
MAX.	44.0	127	620 F	480	110	130	182	93.0	93.0	43.0	15.0	11.0	MAX.
MIN.	0.6	8.3	16.0	53.0	47.0	53.0	98.0	70.0	52.0	20.0	7.0	5.6	MIN.
AC. FT.	315	1323	4979	6397	3235	4858	7734	4879	4259	1773	708	464	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
56.5	1380 E	4.10	12	23	0640	0.1	0.77	10	3	1400	40920

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OF GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 20 44	119 38 20	SE 2 7S 21E	2930E	4.93	2-1-63	SEP 61-DATE		1961	DATE	0.00	LOCAL

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Motel. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,520 feet (from topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1959	[illegible]	MIAM[illegible] CREEK NEAR [illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	[illegible].4	[illegible].4	2.9	13	16	12	18	22	8.9	[illegible].5	[illegible]	[illegible]	1
2	[illegible].3*	[illegible].8	3.5*	13	16	11	23	21	9.2	[illegible].5	[illegible]	[illegible]	2
3	[illegible].3	3.1	4.5	14	15	11	23	[illegible]	9.4*	[illegible].2	[illegible].5	[illegible]*	3
4	[illegible].3	1.3*	4.[illegible]	18	15	10 *	18	[illegible].8	[illegible].0	[illegible].0	2.7*	[illegible].6	4
5	[illegible].2	1.1	3.7	40	21	1[illegible]	18	18	8.8	4.8	[illegible].7	[illegible].6	5
6	[illegible].3	1.[illegible]	3.3	193 E	27	1[illegible]	[illegible]2	18 *	[illegible]	4.8*	[illegible]	[illegible].5	6
7	[illegible].2	[illegible]	3.1	89 *	20	11	23 *	17	8.[illegible]	4.4	2.5	2.[illegible]	7
8	[illegible].3	1.[illegible]	2.9	38	17 *	10	22	17	8.5	4.3	[illegible].5	[illegible].1	8
9	1.2	5.1	[illegible].9	28	16	10	21	18	8.7	4.3	2.5	2.[illegible]	9
10	1.[illegible]	9.5	2.9	24	15	10	19	17	8.2	4.4	2.5	[illegible]	10
11	[illegible].4	5.7	4.3	22	14	10	19	16	7.7	4.2	[illegible].6	1.9	11
12	[illegible].3	29	6.3	20	14	12	18	15	7.3	4.1	3.0	1.8	12
13	[illegible].3	11	4.2	19	13	13	20	16	7.4	4.2	[illegible]	[illegible]	13
14	[illegible].3	4.8	3.5	18	13	12	22	14	7.1	3.9	[illegible]	1.7	14
15	[illegible].4	3.8	3.2	17	12	13	27	14	[illegible]	3.7	[illegible].6	1.7	15
16	[illegible].3	3.4	3.1	17	12	13	32	14	7.[illegible]	3.6	[illegible]	[illegible]	16
17	[illegible].4	3.[illegible]	2.9	18	12	13	32	13	7.6	3.7	2.4	1.[illegible]	17
18	[illegible].4	2.7	2.7	19	11	13	35	13	7.1	3.6	2.4	[illegible]	18
19	[illegible].3	2.6	5.8	20	12	12	37	12	6.7	3.5	2.3	1.[illegible]	19
20	[illegible].3	2.3	9.4	21	12	12	36	12	6.[illegible]	3.4	2.2	1.[illegible]	20
21	[illegible].3	[illegible].2	8.7	19	12	12	34	13	6.7	3.2	2.2	1.7	21
22	[illegible].3	2.1	27	18	12	11	33	13	6.6	3.2	2.2	1.6	22
23	[illegible].3	[illegible].1	237 #	21	12	11	30	12	6.[illegible]	3.2	2.1	1.7	23
24	[illegible].3	2.1	176 E	43	11	11	3[illegible]	12	6.2	3.0	[illegible]	1.7	24
25	[illegible].4	2.3	46	24	11	11	3[illegible]	1[illegible]	6.4	[illegible]	2.1	1.[illegible]	25
26	[illegible].5	3.[illegible]	39	20	[illegible].1	11	3[illegible]	9.2	6.4	3.1	2.1	[illegible]	26
27	[illegible].5	3.3	69	19	15	21	28	1[illegible]	6.[illegible]	3.0	2.2	[illegible]	27
28	1.7	3.[illegible]	34	17	14	17	27	9.7	[illegible]	3.1	2.1	[illegible]	28
29	5.4	3.1	23	16		15	25	[illegible]	[illegible]	3.0	2.0	2.1	29
30	2.1	[illegible]	19	16		14	23	9.[illegible]	[illegible]	2.7	[illegible]	1.[illegible]	30
31	1.3		17	16		14		8.8		3.1	[illegible]		31
MEAN	[illegible].7	4.1	25.[illegible]	28.7	14.3	1[illegible].1	[illegible]	14.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MEAN
MAX.	6.4	29.[illegible]	237 [illegible]	193 [illegible]	27.[illegible]	21.[illegible]	37.[illegible]	22.[illegible]	9.6	[illegible].5	3.1	2.1	MAX.
MIN.	[illegible].2	1.[illegible]	2.7	13.[illegible]	11.[illegible]	1[illegible].[illegible]	18.[illegible]	8.0	[illegible]	2.9	[illegible]	[illegible].6	MIN
AC. FT.	44	244	1537	1763	795	[illegible]	1531	877	437	239	150	100	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1[illegible].7	[illegible]37 E	[illegible]	12	23	[illegible]	[illegible]	2.40	[illegible]	[illegible]	1710	8400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B &M	OF RECORD CFS	OF RECORD GAGE HT	OF RECORD DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 23 38	119 39 10	SE22 6S 21E	1140E	9.08	2-1-63	DEC 59-DATE		1959	DATE	0.00	

Station located 150 feet below bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Maximum discharge of record from rating curve extended above 202 cfs. Altitude of gage is approximately 3,500 feet (from topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	B07610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	12	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	8.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	9.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	12	9.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	12	0.0	4.0	3.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	8.0	0.0	12
13	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	12	0.0	13
14	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	4.0	0.0	14
15	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	15
16	4.0	0.0	0.0	8.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	57	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	18
19	0.0	0.0	0.0	39	0.0	0.0	0.0	5.0	0.0	8.0	12	0.0	19
20	0.0	0.0	0.0	27	0.0	0.0	0.0	12	0.0	12	4.0	0.0	20
21	0.0	0.0	0.0	16	0.0	0.0	0.0	10	8.0	12	0.0	0.0	21
22	0.0	0.0	0.0	9.0	0.0	0.0	0.0	4.0	12	7.0	0.0	0.0	22
23	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	8.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	27
28	12	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	8.0	0.0	9.0	28
29	4.0	0.0	0.0	0.0		0.0	0.0	4.0	0.0	12	0.0	4.0	29
30	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	12	0.0	0.0	30
31	0.0		0.0	0.0		0.0		0.0		4.0	9.0		31
MEAN	1.9	0.0	0.0	7.4	0.0	0.0	0.0	2.5	2.1	5.1	2.9	1.5	MEAN
MAX.	12.0	0.0	0.0	68.0	0.0	0.0	0.0	12.0	12.0	12.0	12.0	12.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	119			452				155	127	315	179	89	AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO	DAY	TIME	TOTAL ACRE FEET
2.0											1436

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 59 38	120 30 02		8200		6-5-52	OCT 40-DATE		1940		116.5	USED

Station located 800 feet below the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 5,630 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	[illegible]	EAST FORK [illegible] RIVER NEAR AHWAHNEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	4.9	9.7	114	56	38	8[illegible]	76	29	14	4.[illegible]	[illegible]	1
2	0.0	3.4*	9.1	101	54	36	99	77	31	14	3.4	1.2	2
3	0.0	5.8	12	204	55	35	82	73	3[illegible]	13	2.9*	1.3	3
4	0.0	4.3	11	204	56	33	70	68	18	12	2.8	1.1	4
5	0.0	3.5	9.2	290 *	72 *	32	67	65	26	10	2.6	1.[illegible]	5
6	0.0	3.1	7.8	947	111	33	113	63	25	8.7	2.5	1.1	6
7	0.0	2.9	8.1*	452	81	36	136	61 *	24 *	7.7	2.2	1.4*	7
8	0.0	2.8	8.2	229	71	41	192 *	56	25	6.5*	1.9	2.0	8
9	0.0	13	8.7	177	67	36	196	54	26	7.2	1.9	2.1	9
10	0.0	82	9.0	150	61	36 *	274	51	24	7.2	1.9	1.6	10
11	0.0	60	10	135	59	34	200	50	21	7.0	2.1	1.3	11
12	0.0	219 *	21	122	55	61	175	46	19	6.7	2.3	1.4	12
13	0.0	95	15	109	53	82	244	46 *	19	6.5	2.7	1.2	13
14	0.0	35	13	100	52	59	226	44	19	6.3	2.7	1.2	14
15	0.0	22	13	94	51	51	202	42	19	5.5	2.1	1.2	15
16	0.0	19	13	90	49	45	183	4[illegible]	20	4.9	1.9	1.2	16
17	0.0	15	13	88	46	43	163	41	20	4.6	1.6	1.3	17
18	0.0	13	13	86	46	43	154	39	18	4.9	1.5	1.3	18
19	0.0	13	59	89	44	41	153	37	17	4.6	1.4	1.4	19
20	0.0	11	67	97	42	38	150	37	16	4.5	1.4	1.7	20
21	0.0	11	43	84	42	36	135	40	16	4.1	1.2	1.0	21
22	0.0	10	73	78	41	33	126	41	16	4.1	1.2	1.8	22
23	0.0	9.8	1130 #	79	39	34	115	41	15	4.0	1.6	1.6	23
24	0.0	9.6	746	194	37	34	110	38	15	3.8	1.6	1.5	24
25	.0	9.3	201	105	37	33	105	35	15	3.7	1.6	1.4	25
26	0.1	10	223	89	36	33	99	33	15	3.5	1.6	1.3	26
27	0.1	13	526	82	47	106	92	31	15	4.1	1.4	1.9	27
28	0.2	10	328	72	44	75	86	29	15	4.1	1.4	2.3	28
29	15	9.4	180	62		54	82	29	15	3.7	1.1	3.0	29
20	12	8.6	151	61		46	78	28	14	3.8	1.2	2.7	30
31	5.6		146	59		51		27		4.0	1.0		31
MEAN	1.1	24.5	132	156	53.7	44.8	140	46.5	20.2	6.4	2.0	1.3	MEAN
MAX	15.0	219	1130 E	947	111	106	274	78.0	31.0	14.[illegible]	4.1	3.[illegible]	MAX.
MIN	0.0	2.8	7.8	59.0	36.0	32.0	67.0	27.0	14.0	3.5	1.0	1.0	MIN.
AC. FT.	65	1457	8086	9606	2983	2753	8311	2856	1204	394	121	92	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
52.4	3190 E	9.85	12	23	0630	0.0		10	1	0000	37930

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 20 09	119 48 59	SE 7 7S 20E	3710E	10.34	1-31-63	NOV 57-DATE		1957	DATE	0.00	LOCAL

Station located 1.1 miles above mouth, 5.5 miles west of Ahwahnee. Drainage area 57.8 square miles. Maximum discharge of record from rating curve extended above 1,789 cfs. Altitude of gage 980 feet (from topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1958	9643.	WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.1	0.7	7[illegible]	[illegible]	18	59	33	1.7	1.0	0.0	0.0	1
2	0.0	0.1*	0.8	8.1	26	16	49	32	0.4	0.9	0.0	0.0	2
3	0.0	0.0	1.0	122	24	14	52	30	1.9	0.8	0.0*	0.0	3
4	0.0	0.0	1.0	154	23	14	45	28	1.3	0.7	0.0	0.0	4
5	0.0*	0.0	0.8	186 *	42 *	13	44	26	0.9	0.6	0.0	0.0	5
6	0.0	0.0	0.8	922	39	14	87	25	0.1	0.5	0.0	0.0	6
7	0.0	0.0	0.8*	543	27	17	118	24 *	6.5	0.4	0.0	0.0*	7
8	0.0	0.0	0.8	156	25	17	173 *	22	0.4*	0.4*	0.0	0.0	8
9	0.0	0.0	0.8	120	24	15	183	21	1.0	0.4	0.0	0.0	9
10	0.0	19 *	0.8	99	21	14 *	247	20	0.0	0.3	0.0	0.0	10
11	0.0	21	1.0	86	21	14	2[illegible]9	19	5.2	0.3	0.0	0.0	11
12	0.0	157 *	1.4	75	20	32	170	18	4.0	0.3	0.0	0.0	12
13	0.0	42	1.0	65	19	43	202	17	3.9	0.3	0.0	0.0	13
14	0.0	8.2	0.9	59	19	26	165	15	4.[illegible]	0.2	0.0	0.0	14
15	0.0	3.3	0.9	55	18	22	140	16	4.3	0.2	0.0	0.0	15
16	0.0	2.2	1.0	50	17	20	128	15	4.4	0.2	0.0	0.0	16
17	0.0	1.5	1.0	47	18	18	113	14	2.9	0.2	0.0	0.0	17
18	0.0	1.2	0.9	44	18	16	98	13	3.6	0.0	0.0	0.0	18
19	0.0	1.0	14	44	17	18	88	12	3.3	0.2	0.0	0.0	19
20	0.0	1.0	12	46	17	17	79	12	2.5	0.0	0.0	0.0	20
21	0.0	1.0	0.2	39	16	16	72	14	2.7	0.0	0.0	0.0	21
22	0.0	0.9	71	37	16	16	67	14	0.4	0.1	0.0	0.0	22
23	0.0*	0.8	#23	50	15	16	60	14	2.0	0.0	0.0	0.0	23
24	0.0	0.8	467	92	14	17	56	12	2.0	0.1	0.0	0.0	24
25	0.0	0.0	91	50	14	17	53	11	1.9	0.0	0.0	0.0	25
26	0.0	0.9	174	42	14	16	49	10	1.9	0.0	0.0	0.0	26
27	0.0	0.9	337	39	26	90	45	9.1	1.9	0.0	0.0	0.0	27
28	0.0	0.9	210	37	20	53	41	8.4	1.5	0.0	0.0	0.0	28
29	0.1	1.0	100	34		37	38	7.7	1.4	0.0	0.0	0.0	29
30	0.0	0.8	102	32		31	35	7.2	1.1	0.0	0.0	0.0	30
31	0.0		105	30		35		7.2		0.1	0.0		31
MEAN	0.0	8.9	81.6	113	21.3	23.4	98.9	17.0	4.3	0.3	0.0	0.0	MEAN
MAX.	0.1	157	823	922	42.0	90.0	247	32.0	8.4	1.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.7	30.0	14.0	13.0	35.0	7.2	1.1	0.0	0.0	0.0	MIN.
AC. FT.		530	5015	6940	1184	1436	5883	1046	256	17			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — EXCEEDED

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
30.8	2260	7.[illegible]	12	23	0630	0.0		10	1	0000	22310

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M O B & M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 25 14	119 52 25	SE10 6S 19E	3590E	8.67	4-3-58	NOV 57-DATE		1957		0.00	LOCAL

Station located 15 feet below Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Maximum discharge of record from rating curve extended above 1,829 cfs. Altitude of gage is 1,680 feet (from topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	4643[illegible]	MI[illegible]LE F[illegible]K [illegible]HOW[illegible]LLA RIV[illegible] NEAR [illegible]IMI[illegible]WA[illegible]SEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	[illegible]	[illegible]	[illegible]	40	14	8.9	23	15	[illegible]	2.1	[illegible]	[illegible]	1
2	[illegible]	[illegible]*	1.1	35	13	8.6	22	15	[illegible]	[illegible]	[illegible]	[illegible]	2
3	[illegible]	0.1	1.5	80	13	7.7	18	15	[illegible]	1.9	0.2*	[illegible]	3
4	[illegible]	[illegible]	2.[illegible]	102	12	7.[illegible]	14	14	[illegible]	1.8	0.2	[illegible]	4
5	[illegible]*	[illegible]	1.4	127 *	17 *	7.[illegible]	15	[illegible]	[illegible]	1.7	0.2	0.1	5
6	[illegible]	[illegible]	1.3	371	23	7.[illegible]	39	14	[illegible]	[illegible]	[illegible]	[illegible]	6
7	[illegible]	0.0	1.1*	193	15	7.6	55	13 *	4.4*	1.4	[illegible]	0.2*	7
8	[illegible]	[illegible]	[illegible]	73	13	[illegible]	79 *	13	4.4	1.2*	[illegible]	[illegible]	8
9	[illegible]	1.3	1.0	54	13	8.[illegible]	76	12	[illegible]	1.3	[illegible]	[illegible]	9
10	[illegible]	8.6	1.[illegible]	48	12	8.1*	99	11	4.6	1.2	[illegible]	[illegible]	10
11	[illegible]	7.5	1.4	42	11	7.8	[illegible]	1[illegible]	4.1	1.2	[illegible]	[illegible]	11
12	[illegible]	84 *	2.[illegible]	34	11	14	61	[illegible].7	[illegible]	1.1	[illegible]	[illegible]	12
13	[illegible]	19	1.8	29	11	24	1[illegible]5	[illegible].7*	[illegible]	[illegible]	[illegible]	[illegible]	13
14	[illegible]	5.9	1.4	27	11	14	99	[illegible].6	3.5	[illegible]	[illegible]	[illegible]	14
15	[illegible]	4.1	1.3	25	10	11	70	8.1	3.6	[illegible]	0.2	[illegible]	15
16	[illegible]	3.6	1.2	23	9.5	9.7	50	7.7	3.3	[illegible]	0.1	[illegible]	16
17	[illegible]	2.7	1.1	21	9.7	9.2	41	7.4	3.6	[illegible]	[illegible]	[illegible]	17
18	[illegible]	2.2	1.1	19	[illegible].9	8.8	36	7.6	3.5	0.5	0.1	[illegible]	18
19	[illegible]	1.8	8.9	20	9.2	8.8	32	6.9	[illegible]	[illegible]	[illegible]	[illegible]	19
20	[illegible]	1.5	12	22	9.1	8.5	3[illegible]	7.2	3.0	0.5	[illegible]	[illegible]	20
21	[illegible]	1.3	6.0	19	8.9	8.5	28	7.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21
22	[illegible]	1.2	20	17	8.9	8.[illegible]	27	8.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22
23	[illegible]*	1.2	409 *	19	8.5	7.8	25	7.7	2.8	[illegible]	[illegible]	[illegible]	23
24	[illegible]	1.1	277	70	8.2	8.[illegible]	24	7.[illegible]	2.6	0.3	[illegible]	[illegible]	24
25	[illegible]	1.1	56	27	8.1	8.2	23	6.3	2.6	0.4	[illegible]	[illegible]	25
26	[illegible]	1.3	69	22	7.5	7.[illegible]	21	6.[illegible]	[illegible]	[illegible]	0.2	[illegible]	26
27	[illegible]	1.3	205	19	11	35	20	6.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27
28	[illegible]	1.3	115	18	11	22	19	5.2	2.5	[illegible]	[illegible]	[illegible]	28
29	1.[illegible]	1.1	54	17		14	18	5.3	2.4	0.3	[illegible]	0.2	29
30	[illegible]	1.0	52	16		12	16	5.3	2.1	[illegible]	[illegible]	[illegible]	30
31	[illegible]		51	15		13		5.[illegible]		0.4	[illegible]		31
MEAN	[illegible]	5.2	43.8	53.0	11.4	11.[illegible]	4[illegible].8	9.3	3.6	[illegible].9	[illegible].1	[illegible].1	MEAN
MAX.	1.2	84.[illegible]	409	371	23.[illegible]	35.[illegible]	1[illegible]5	15.	4.7	2.1	0.4	[illegible].2	MAX.
MIN	[illegible]	[illegible]	1.0	15.0	7.5	7.2	1[illegible].0	5.[illegible]	2.1	[illegible]	[illegible]	[illegible].1	MIN
AC. FT.	3	308	2690	3260	632	678	2487	571	216	54	9	6	AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
15.1	1[illegible]	[illegible]	1	23	[illegible]	[illegible]		[illegible]	1	[illegible]	10920

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 22 56	119 50 11	NE 25 6S 19E	1280	10.10	2-1-63	MAR 58-DATE		1958	DATE	0.00	LOCAL

Station located 6 miles west of Nipinnawasee, 10 miles southeast of Mariposa. Tributary to East Fork Chowchilla River. Drainage area is 12.3 square miles. Altitude of gage is 1,520 feet (from topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	B64260	STRIPED ROCK CREEK NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.2	27	11	7.3	13	6.9	1.0	0.1	0.0	0.0	1
2	0.0	0.0*	0.3	19	11	7.0	11	6.7	1.1	0.1	0.0	0.0	2
3	0.0	0.0	0.5	44	11	6.7	11	6.6	0.9	0.1	0.0*	0.0	3
4	0.0	0.0	0.3	42	11	6.3	9.5	6.5	0.8	0.1	0.0	0.0	4
5	0.0 *	0.0	0.3	28 *	18 *	6.3	9.5	6.0	0.7	0.0	0.0	0.1	5
6	0.0	0.0	0.3	121	16	5.9	19	5.6	0.6	0.0	0.0	0.1	6
7	0.0	0.0	0.3*	166	13	5.8	22	5.2*	0.6*	0.1	0.0	0.4*	7
8	0.0	0.0	0.3	50	12	5.7	32 *	4.7	0.7	0.0*	0.0	0.1	8
9	0.0	0.9	0.2	34	11	5.4	43	4.2	0.7	0.0	0.0	0.1	9
10	0.0	4.8	0.2	28	10	5.4*	174	4.2	0.7	0.0	0.0	0.1	10
11	0.0	3.4	0.4	24	10	5.4	72	4.1	0.5	0.1	0.0	0.1	11
12	0.0	40 *	0.4	20	9.5	10	37	3.7	0.4	0.0	0.1	0.1	12
13	0.0	9.7	0.3	18	9.6	14	45	3.4	0.4	0.0	0.0	0.1	13
14	0.0	2.2	0.3	17	10	9.0	29	3.5	0.4	0.1	0.0	0.1	14
15	0.0	0.9	0.3	16	9.8	7.7	23	3.4	0.4	0.0	0.0	0.1	15
16	0.0	0.5	0.3	14	9.4	6.8	19	3.0	0.4	0.0	0.0	0.2	16
17	0.0	0.3	0.3	13	9.3	5.7	18	3.2	0.3	0.0	0.0	0.1	17
18	0.0	0.3	0.2	13	8.9	5.9	16	2.8	0.3	0.1	0.0	0.2	18
19	0.0	0.2	2.3	14	8.6	5.6	16	2.4	0.2	0.0	0.0	0.2	19
20	0.0	0.2	1.8	14	9.6	5.6	15	2.6	0.2	0.0	0.0	0.3	20
21	0.0	0.2	1.1	12	9.3	6.0	14	3.2	0.1	0.0	0.0	0.2	21
22	0.0	0.2	2.4	12	8.9	6.0	13	3.2	0.1	0.0	0.0	0.2	22
23	0.0 *	0.2	217 #	15	8.7	5.6	12	2.6	0.1	0.0	0.0	0.2	23
24	0.0	0.2	183	35	7.5	6.0	12	2.2	0.1	0.0	0.0	0.2	24
25	0.0	0.2	34	16	7.7	5.9	11	2.0	0.2	0.0	0.0	0.2	25
26	0.0	0.4	98	14	7.3	5.8	10	1.8	0.1	0.0	0.0	0.2	26
27	0.0	0.3	113	13	9.8	21	9.5	1.6	0.1	0.0	0.0	0.2	27
28	0.0	0.2	111	13	7.9	12	9.1	1.5	0.1	0.0	0.0	0.1	28
29	0.0	0.2	43	13		9.1	8.7	1.2	0.1	0.0	0.0	0.1	29
30	0.0	0.2	41	12		8.3	7.6	1.0	0.1	0.0	0.0	0.1	30
31	0.0		48	12		9.0		0.9		0.1	0.0		31
MEAN	0.0	2.2	29.1	28.7	10.2	7.5	24.7	3.5	0.4	0.0	0.0	0.1	MEAN
MAX.	0.0	40.0	217 E	166	18.0	21.0	174	6.9	1.1	0.1	0.1	0.4	MAX.
MIN.	0.0	0.0	0.2	12.0	7.3	5.4	7.6	0.9	0.1	0.0	0.0	0.0	MIN.
AC. FT.		130	1787	1763	567	461	1470	218	25	2		8	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
8.9	655 E	6.98	12	23	0600	0.0		10	1	0000	6430

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M D B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 20 27	119 53 35	NE 9 7S 19E	1180E	8.87	4-3-58	NOV 57-DATE		1957		0.00	LOCAL

Station located 8.7 miles north of Raymond, 11 miles southeast of Mariposa. Tributary to Chowchilla River. Drainage area is 17.1 square miles. Maximum discharge of record from rating curve extended above 351 cfs. Altitude of gage is approximately 1,090 feet (from U. S. Geological Survey topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	800435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	NR	NR	NR	430	69	0.0	0.0	16	0.0	0.0*	0.0	0.0	1
2	NR	NR	NR	398	63	0.0	0.0	4.1	0.0	0.0	0.0	0.0	2
3	NR	NR	NR	288	57	0.0*	0.0	0.0	0.0*	0.0	0.0	0.0	3
4	NR	NR	NR	241	52	0.0	38	0.0*	0.0	0.0	0.0	0.0	4
5	NR	NR	NR	485	46	0.0	66 *	0.0	0.0	0.0	0.0	0.0	5
6	NR	NR	NR	645 *	43	0.0	57	0.0	0.0	0.0	0.0*	0.0	6
7	NR	NR	NR	1270 *	38	0.0	36	0.0	0.0	0.0	0.0	0.0*	7
8	NR	NR	NR	1620 *	80 *	0.0	67	0.0	0.0	0.0	0.0	0.0	8
9	NR	NR	NR	967	121	0.0	272	0.0	0.0	0.0	0.0	0.0	9
10	NR	NR	NR	749	76	0.0	492	0.0	0.0	0.0	0.0	0.0	10
11	NR	NR	NR	570	73	0.0	937	0.0	0.0	0.0	0.0	0.0	11
12	NR	NR	NR	429	52	0.0	1000 *	0.0	0.0	0.0	0.0	0.0	12
13	NR	NR	NR	396	50	0.0	693 *	0.0	0.0	0.0	0.0	0.0	13
14	NR	NR	NR	198	42	0.0	597	0.0	0.0	0.0	0.0	0.0	14
15	NR	NR	NR	174	27	0.0	571	0.0	0.0	0.0	0.0	0.0	15
16	NR	NR	NR	167	22	0.0	546	0.0	0.0	0.0	0.0	0.0	16
17	NR	NR	NR	134	18 *	0.0*	457	0.0	0.0	0.0	0.0*	0.0	17
18	NR	NR	NR	130	8.9	0.0*	309	0.0	0.0	0.0	0.0	0.0	18
19	NR	NR	NR	115	0.5	0.0*	218	0.0	0.0	0.0	0.0	0.0	19
20	NR	NR	NR	103	0.0	0.0	167 *	0.0	0.0	0.0	0.0	0.0	20
21	NR	NR	NR	97	0.0	0.0	137	0.0	0.0	0.0	0.0	0.0	21
22	NR	NR	NR	102	0.0	0.0	111 *	0.0	0.0	0.0	0.0	0.0	22
23	NR	NR	0.0*	89	0.0	0.0	85	0.0	0.0	0.0	0.0	0.0	23
24	NR	NR	167	91	0.0	0.0	74	0.0	0.0	0.0	0.0	0.0	24
25	NR	NR	716 E	86	0.0	0.0	71	0.0	0.0	0.0	0.0	0.0	25
26	NR	NR	841 E	213	0.0	0.0	54	0.0	0.0	0.0	0.0	0.0	26
27	NR	NR	695	190 *	0.0	0.0	62 *	0.0	0.0	0.0	0.0	0.0	27
28	NR	NR	976 *	138	0.0	0.0	56	0.0	0.0	0.0	0.0	0.0	28
29	NR	NR	1100 *	103		0.0	43	0.0	0.0	0.0	0.0	0.0	29
30	NR	NR	873	87		0.0	34	0.0	0.0	0.0	0.0	0.0	30
31	NR		591	75		0.0		0.0		0.0	0.0		31
MEAN	NR	NR	NR	345	33.5	0.0	242	0.6	0.0	0.0	0.0	0.0	MEAN
MAX.	NR	NR	NR	1620	121	0.0	1000	16.0	0.0	0.0	0.0	0.0	MAX.
MIN.	NR	NR	NR	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	NR	NR	NR	21180	1861		14400	40					AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
N — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
NR	1740	11.79	1	8	0710	0.0		12	23		NR

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 08 52	120 36 17	SE13 9S 12E	1740	11.79	1-8-65	DEC 64-DATE		1964	DATE	90.00	USGS

Station located on left bank 2.8 miles below San Joaquin River and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Recorder installed 12-23-64.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	352400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	3.1	207	30	17	35	22	5.3	0.7	0.0	0.0	1
2	0.0	0.0*	3.4	139	28	16	28	20	5.7	0.6	0.0	0.0	2
3	0.0	0.0	3.7	257	27	14	30	20	5.4	0.5	0.0*	0.0	3
4	0.0	0.0	3.4	315	25	13	26	16	5.2	0.4	0.0	0.0	4
5	0.0*	0.0	3.0	273 *	44 *	13	23	17	4.9	0.3	0.0	0.0	5
6	0.0	0.0	2.8	1430	55	13	56	16	4.5	0.3	0.0	0.0	6
7	0.0	0.0	2.7	1090	39	13	90	15 *	4.4	0.2	0.0	0.0*	7
8	0.0	0.0	2.4	311	32	13	242	14	4.3*	0.2*	0.0	0.0	8
9	0.0	1.2	2.6	186	31	13	347 *	14	4.7	0.2	0.0	0.0	9
10	0.0	69	2.6	139	28	12 *	725	14	4.4	0.2	0.0	0.0	10
11	0.0	76	3.0	111	26	11	513	14	3.9	0.2	0.0	0.0	11
12	0.0	331 *	3.5	90	24	16	317	13	3.2	0.1	0.0	0.0	12
13	0.0	114	3.3	76	24	27	323	13 *	2.9	0.1	0.0	0.0	13
14	0.0	26	3.0	64	24	17	248	12	2.9	0.1	0.0	0.0	14
15	0.0	11	2.8	58	22	15	158	12	2.5	0.1	0.0	0.0	15
16	0.0	7.0	2.8	51	21	13	124	11	2.8	0.1	0.0	0.0	16
17	0.0	5.7	2.7	45	20	13	98	11	2.5	0.1	0.0	0.0	17
18	0.0	4.6	2.5	40	19	12	79	9.5	2.5	0.1	0.0*	0.0	18
19	0.0	4.0	9.4	41	18	12	69	9.5	2.4	0.1	0.0	0.0	19
20	0.0	3.8	17	40	19	11	61	9.2	2.3	0.1	0.0	0.0	20
21	0.0	3.6	8.7	35	17	11	55	10	1.5	0.1	0.0	0.0	21
22	0.0	3.5	33 E	32	17	11	48	11	1.6	0.0	0.0	0.0	22
23	0.0*	3.2	1540 #	38	16	11	42	10	1.4	0.0	0.0	0.0*	23
24	0.0	3.2	1170	116	15	11	39	9.2	1.3	0.0	0.0	0.0	24
25	0.0	3.1	189	60	15	11	36	9.2	1.1	0.0	0.0	0.0	25
26	0.0	3.6	367	49	14	11	33	8.1	1.1	0.0	0.0	0.0	26
27	0.0	3.5	577	44	22	52	30	7.1	1.1	0.0	0.0	0.0	27
28	0.0	3.1	533	42	20	46	27	6.6	1.1	0.0	0.0	0.0	28
29	0.0	2.9	251	39		27	24	5.9	1.0	0.0	0.0	0.0	29
30	0.0	2.6	287	35		22	23	5.3	0.8	0.0	0.0	0.0	30
31	0.0		414	33		22		5.3		0.0	0.0		31
MEAN	0.0	21.8	179	177	24.7	17.1	132	12.0	3.0	0.2	0.0	0.0	MEAN
MAX.	0.0	331	1540	1430	55.0	62.0	725	22.0	5.7	0.7	0.0	0.0	MAX.
MIN	0.0	0.0	2.6	32.0	14.0	11.0	23.0	5.3	0.8	0.0	0.0	0.0	MIN
AC. FT.		1300	11010	10880	1373	1049	7853	738	177	10			AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
47.5	5200	10.81	12	23	0510	0.0		10	1	0000	34390

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 23 55	120 00 10	NE 21 6S 18E	7180E	11.62	4-3-58	NOV 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 66.0 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,100 feet (from topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	86210[illegible]	MARIPO[illegible] A [illegible]-EK [illegible] EL A MARI[illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	[illegible]	3.0	532	42	[illegible]	26	[illegible]	[illegible]	[illegible]	0.0	[illegible]	1
2	0.0	[illegible]	3.0	408	39	22	37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2
2	0.0	[illegible]	3.0	263	37	21	31	24	[illegible]	[illegible]	[illegible]	[illegible]	3
4	0.0	[illegible]	3.0	310	29	19	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4
5	0.0	0.0	3.0	345	38	18	26	[illegible]	[illegible]	0.0	0.0	0.0	5
6	0.0	[illegible]	3.0	502	60	18	26	[illegible]	[illegible]	[illegible]	[illegible]	0.0	6
7	0.0	[illegible]	4.0	804	60	18	76	[illegible]	[illegible]	0.0	0.0	0.0	7
8	0.0	[illegible]	3.0	742	50	18	137	[illegible]	[illegible]	[illegible]	[illegible]	0.0	8
9	0.0	0.0	3.0	714	43	17	325	[illegible]	[illegible]	[illegible]	[illegible]	0.0	9
10	0.0	[illegible]	3.0	623	39	17	444	19	[illegible]	[illegible]	0.0	0.0	10
11	[illegible]	0.0	3.0	518	35	16	570	18	[illegible]	[illegible]	[illegible]	0.0	11
12	0.0	38	3.0	308	34	19	555	17	[illegible]	[illegible]	[illegible]	[illegible]	12
13	0.0	162	3.0	161	32	29	491	16	[illegible]	0.0	0.0	0.0	13
14	0.0	54	3.0	112	31	32	410	15	[illegible]	[illegible]	[illegible]	0.0	14
15	[illegible]	22	4.0	85	30	23	325	14	[illegible]	[illegible]	[illegible]	[illegible]	15
16	0.0	14	4.0	80	29	26	217	13	[illegible]	[illegible]	[illegible]	0.0	16
17	0.0	10	4.0	62	28	19	144	12	[illegible]	0.0	0.0	[illegible]	17
18	0.0	8.0	6.0	60	26	18	114	11	[illegible]	[illegible]	[illegible]	[illegible]	18
19	0.0	7.0	5.0	58	25	17	88	10	[illegible]	[illegible]	[illegible]	[illegible]	19
20	0.0	6.0	6.0	[illegible]	25	16	75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20
21	0.0	5.0	19	54	23	16	64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21
22	[illegible]	4.0	17	46	23	15	53	[illegible]	[illegible]	[illegible]	[illegible]	0.0	22
23	0.0	4.0	445	43	22	14	44	11	[illegible]	[illegible]	[illegible]	[illegible]	23
24	0.0	4.0	740	98	21	14	37	11	[illegible]	[illegible]	[illegible]	[illegible]	24
25	0.0	3.0	756	124	21	14	34	[illegible]	[illegible]	[illegible]	[illegible]	0.0	25
26	0.0	3.0	665	73	20	14	32	[illegible]	[illegible]	[illegible]	[illegible]	0.0	26
27	0.0	3.0	672	62	21	19	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27
28	0.0	3.0	700	58	25	69	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28
29	0.0	3.0	658	54		46	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29
30	0.0	3.0	616	48		35	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30
31	0.0		581	44		25		[illegible]		[illegible]			31
MEAN	0.0	12.0	192	242	32.0	22.0	152	14.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MEAN
MAX.	0.0	162	756	804	60.0	69.0	570	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MAX.
MIN.	0.0	0.0	3.0	42.0	20.0	14.0	25.0	[illegible]	[illegible]	[illegible]	[illegible]	0.0	MIN
AC. FT.		706	11784	14876	1801	1345	8967	874					AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
R — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
56.[illegible]	878		1	7		0.0		1[illegible]	1		40460

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE		1952		337.63	USCGS

Station located 1.5 miles below Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir. Records furnished by U. S. Corps of Engineers. Drainage area is 108 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	B00420	MARIPOSA BYPASS NEAR CRANE RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8				1615 **									8
9													9
10													10
11													11
12													12
13													13
14													14
15							532 **						15
16													16
17													17
18													18
19													19
20													20
21					INSUFFICIENT DATA TO PUBLISH								21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29			1196 **										29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *
** — RESULT OF DISCHARGE MEASUREMENT

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 12 00	130 41 50	NW 31 8S 11E						1962		0.00	USCGS

This station was installed in January 1962, for the Lower San Joaquin Flood Control Project for the purpose of recording flows diverted into Mariposa Bypass by float-activated electrically operated gates. No continuous water stage recorder is installed to date. Miscellaneous measurements of instantaneous discharge will be presented when appropriate.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	[illegible]	[illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.4	88	8.[illegible]	[illegible]	[illegible]	3.4	.8	[illegible]	[illegible]	[illegible]	1
2	[illegible]	0.0	0.4	61	6.[illegible]	[illegible]	[illegible]	3.2	[illegible]	[illegible]	[illegible]	[illegible]	2
3	[illegible]	0.0	0.4	39	6.[illegible]	[illegible]	[illegible]	3.[illegible]	.6	0.3	[illegible]	[illegible]	3
4	[illegible]	[illegible]	0.4	35	5.[illegible]	[illegible]	[illegible]	2.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4
5	0.0	0.0	0.4	33	9.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5
6	0.0	[illegible]	0.4	58	12	3.[illegible]	[illegible]	2.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6
7	[illegible]	[illegible]	0.4	116	8.[illegible]	[illegible]	[illegible]	[illegible]	.5	[illegible]	[illegible]	[illegible]	7
8	0.0	0.0	0.4	116	6.[illegible]	[illegible]	21	[illegible]	0.6	[illegible]	[illegible]	[illegible]	8
9	0.0	3.0	0.4	107	6.[illegible]	3.[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9
10	0.0	[illegible]	0.4	94	6.[illegible]	3.[illegible]	71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
11	[illegible]	0.5	0.4	68	5.[illegible]	[illegible]	103	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11
12	0.0	0.5	0.4	31	5.[illegible]	[illegible]	66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12
13	[illegible]	[illegible]	0.4	28	5.[illegible]	7.[illegible]	3[illegible]	1.5	.5	[illegible]	[illegible]	[illegible]	13
14	0.0	0.4	0.4	26	5.[illegible]	4.[illegible]	21	1.4	[illegible]	[illegible]	[illegible]	[illegible]	14
15	0.0	0.4	0.4	25	4.[illegible]	3.[illegible]	14	1.4	[illegible]	[illegible]	[illegible]	[illegible]	15
16	0.0	0.4	0.4	23	4.[illegible]	3.[illegible]	11	1.4	.5	[illegible]	[illegible]	[illegible]	16
17	0.0	0.4	0.4	21	4.[illegible]	3.[illegible]	9.5	1.3	0.5	[illegible]	[illegible]	[illegible]	17
18	0.0	0.4	0.4	18	4.[illegible]	3.[illegible]	[illegible].9	1.1	[illegible].5	[illegible]	[illegible]	[illegible]	18
19	0.0	0.4	0.5	20	4.[illegible]	3.[illegible]	6.8	1.[illegible]	[illegible].5	[illegible]	[illegible]	[illegible]	19
20	0.0	0.4	0.4	22	4.[illegible]	2.[illegible]	6.6	[illegible]	.5	[illegible]	[illegible]	[illegible]	20
21	0.0	0.4	0.4	18	4.[illegible]	2.[illegible]	6.3	1.[illegible]	[illegible].5	[illegible]	[illegible]	[illegible]	21
22	0.0	0.4	0.5	14	3.[illegible]	2.[illegible]	5.6	1.[illegible]	.5	[illegible]	[illegible]	[illegible]	22
23	0.0	0.4	87	14	3.[illegible]	2.[illegible]	4.8	1.1	[illegible].4	[illegible]	[illegible]	[illegible]	23
24	[illegible]	0.4	112	31	3.[illegible]	[illegible]	4.6	1.2	[illegible].4	[illegible]	[illegible]	[illegible]	24
25	[illegible]	[illegible]	98	24	3.[illegible]	2.[illegible]	4.4	1.1	[illegible].4	[illegible]	[illegible]	0.[illegible]	25
26	0.0	0.4	37	21	3.[illegible]	2.[illegible]	4.4	1.[illegible]	[illegible].4	0.0	[illegible]	[illegible]	26
27	0.0	0.4	98	18	4.0	7.[illegible]	4.2	[illegible].8	.4	[illegible]	[illegible]	[illegible]	27
28	0.0	0.4	104	17	4.[illegible]	6.[illegible]	4.[illegible]	[illegible].8	.4	[illegible]	[illegible]	0.0	28
29	0.0	0.4	102	14		3.[illegible]	3.8	[illegible].8	[illegible].3	[illegible]	[illegible]	[illegible]	29
30	[illegible]	0.4	86	12		3.[illegible]	3.3	[illegible].7	[illegible].3	0.[illegible]	[illegible]	[illegible]	30
31	0.0		114	11		3.[illegible]		[illegible].6		[illegible]	[illegible]		31
MEAN	0.0	0.4	27.0	39.[illegible]	5.1	3.3	15.0	1.6	[illegible].5	0.1	0.[illegible]	0.0	MEAN
MAX.	0.0	0.5	114	116	12.0	7.[illegible]	103	[illegible].4	.8	[illegible].3	[illegible]	[illegible]	MAX.
MIN	0.0	0.0	0.4	11.[illegible]	3.[illegible]	3.[illegible]	[illegible]	.6	.3	[illegible]	[illegible]	[illegible]	MIN
AC. FT.	[illegible]	23	1680	2426	282	22[illegible]	916	97	30	3			AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
7.8	120		1	7		0.0		10	1		5660

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950		338.22	USCGS

Station located 0.25 mile below Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	B55400	BEAR CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.7	134	5.9	2.5	9.2	4.3	0.3	0.1	0.0	0.0	1
2	0.0	0.0*	0.8	71	5.3	2.1	29	4.0	0.3	0.1	0.0	0.0	2
3	0.0	0.0	1.0	232	4.7	1.9	29	3.7	0.3	0.0	0.0*	0.0	3
4	0.0	0.0	1.1	166	4.3	1.8	16	3.6	0.3	0.0	0.0	0.0	4
5	0.0*	0.0	0.9	122 *	7.9	1.6	13	3.3	0.3	0.0	0.0	0.0	5
6	0.0	0.0	0.8	922 E	25	1.7	65	2.9	0.3	0.0	0.0	0.0	6
7	0.0	0.0	0.8*	918 E	12	1.6	99	2.7*	0.2	0.0	0.0	0.0*	7
8	0.0	0.0	0.7	140	9.6	1.8	288	2.4	0.2*	0.0*	0.0	0.0	8
9	0.0	0.0	0.7	63	8.3	1.6	312 *	2.2	0.2	0.0	0.0	0.0	9
10	0.0	2.4	0.7	39	7.1	1.6*	660	1.9	0.2	0.0	0.0	0.0	10
11	0.0	36	0.8	27	5.4	1.6	299	1.7	0.2	0.0	0.0	0.0	11
12	0.0	189 *	1.0	20	5.8	2.1	144	1.5	0.2	0.0	0.0	0.0	12
13	0.0	104	1.0	16	5.3	6.4	182	1.3*	0.1	0.0	0.0	0.0	13
14	0.0	19	0.9	13	5.3	4.3	113	1.3	0.1	0.0	0.0	0.0	14
15	0.0	9.4	0.9	11	4.7	3.2	67	1.2	0.1	0.0	0.0	0.0	15
16	0.0	5.4	0.9	9.1	4.2	2.7	45	1.1	0.2	0.0	0.0	0.0	16
17	0.0	3.3	0.9	7.7	3.8	2.6	31	0.8	0.1	0.0	0.0	0.0	17
18	0.0	2.4	0.9	6.8	3.5	2.4	22	0.7	0.1	0.0	0.0*	0.0	18
19	0.0	1.9	3.3	7.0	3.1	2.1	18	0.7	0.1	0.0	0.0	0.0	19
20	0.0	1.5	6.8	7.1	3.0	2.1	14	0.8	0.1	0.0	0.0	0.0	20
21	0.0	1.2	6.9	6.0	2.9	2.0	13	0.9	0.1	0.0	0.0	0.0	21
22	0.0	1.0	52	5.4	2.7	1.8	11	1.1	0.1	0.0	0.0	0.0	22
23	0.0*	0.9	1058 #	5.6	2.4	1.8	9.2	1.0	0.1	0.0	0.0	0.0*	23
24	0.0	0.9	971 F	39	2.2	1.7	8.3	0.8	0.1	0.0	0.0	0.0	24
25	0.0	0.8	120	17	2.0	1.6	7.6	0.7	0.1	0.0	0.0	0.0	25
26	0.0	1.0	364 E	12	2.0	1.6	6.9	0.7	0.1	0.0	0.0	0.0	26
27	0.0	0.9	359	10	3.4	21	6.4	0.5	0.1	0.0	0.0	0.0	27
28	0.0	0.9	326	8.9	3.7	17	5.8	0.5	0.1	0.0	0.0	0.0	28
29	0.0	0.8	136	7.9		8.8	5.2	0.4	0.1	0.0	0.0	0.0	29
30	0.0	0.7	190	7.0		6.3	4.8	0.3	0.1	0.0	0.0	0.0	30
31	0.0		420	6.4		5.8		0.3		0.0	0.0		31
MEAN	0.0	12.8	130	98.6	5.6	3.8	84.4	1.6	0.2	0.0	0.0	0.0	MEAN
MAX	0.0	189	1058 E	922 E	25.0	21.0	660	4.3	0.3	0.1	0.0	0.0	MAX.
MIN.	0.0	0.0	0.7	5.4	2.0	1.6	4.8	0.3	0.1	0.0	0.0	0.0	MIN.
AC. FT.		760	7990	6063	310	232	5025	98	10				AC.FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO	DAY	TIME	TOTAL ACRE FEET
28.3	4166 F	9.97	1	7	0110	0.0		10	1	0000	20488

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 28 38	120 06 43	SW 21 5S 17E	4166E	9.97	1-7-65	DEC 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 3.7 miles north of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 24.6 square miles. Altitude of gage is approximately 1,210 feet (from topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
[illegible]	[illegible]	[illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR	APR.	MAY	JUNE	JULY	AUG	SEPT.	DAY
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1
2	[illegible]	[illegible]	[illegible]	141	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5
6	[illegible]	[illegible]	[illegible]	484	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6
7	[illegible]	[illegible]	[illegible]	1254	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8
9	[illegible]	[illegible]	[illegible]	165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11
12	[illegible]	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12
13	[illegible]	149	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13
14	[illegible]	52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14
15	[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22
23	[illegible]	[illegible]	688	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23
24	[illegible]	[illegible]	[illegible]	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24
25	[illegible]	[illegible]	553	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25
26	[illegible]	[illegible]	170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27
28	[illegible]	[illegible]	448	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28
29	[illegible]	[illegible]	278	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29
30	[illegible]	[illegible]	221	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30
31	[illegible]		652	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]		31
MEAN	[illegible]	[illegible]	148	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MEAN
MAX	[illegible]	149	[illegible]	1284	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MAX
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MIN
AC. FT.		657	[illegible]	[illegible]	964	[illegible]	[illegible]	[illegible]	[illegible]				AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
[illegible]	1 44		1	[illegible]		[illegible]		[illegible]	[illegible]		[illegible]

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-5[illegible]	JAN [illegible]5-DATE		195[illegible]		32[illegible]	[illegible]SCGS

Station located approximately 0.75 mile below Bear Dam. Tributary to San Joaq[illegible]in River via Eastside Bypass. Flow regulated by Bear Reservoir. Records furnished by U. S. Corps of Engineers. Drainage area is 72 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	856400	BURNS CREEK AT HORNITOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.4	44	5.0	2.4	1.9	1.7	0.7	0.2	0.0	0.0	1
2	0.0	0.0	0.4	24	4.3	2.2	2.1	1.8	0.7	0.1	0.0	0.0	2
3	0.0	0.0	0.5	82	4.5	2.0	2.2	1.7	0.6	0.2	0.0*	0.0	3
4	0.0	0.0	0.5	31	4.4	1.8	1.6	1.6	0.5	0.1	0.0	0.0	4
5	0.0*	0.0	0.4	20 *	22 *	1.7	1.3	1.7	0.4	0.1	0.0	0.0	5
6	0.0	0.0	0.3	571 E	16	1.8	2.6	1.7	0.4	0.1	0.0	0.0	6
7	0.0	0.0	0.3*	730 E	6.6	1.8	5.3	1.5*	0.3	0.1	0.0	0.0	7
8	0.0	0.0	0.3	62	5.2	1.6	60 *	1.3	0.4*	0.1*	0.0	0.0	8
9	0.0	0.2	0.3	35	4.9	1.5	74	1.2	0.4	0.1	0.0	0.0	9
10	0.0	15	0.3	24	4.3	1.4*	300 E	1.0	0.4	0.1	0.0	0.0	10
11	0.0	13	0.4	18	4.2	1.3	90	0.8	0.4	0.1	0.0	0.0	11
12	0.0	41 *	0.3	14	3.8	2.2	27	0.7	0.3	0.1	0.0	0.0	12
13	0.0	44	0.3	11	3.7	3.1	91	0.6	0.4	0.1	0.0	0.0	13
14	0.0	5.8	0.3	8.9	3.7	1.7	30	0.7	0.4	0.1	0.0	0.0	14
15	0.0	3.1	0.4	7.6	3.4	1.4	15	0.7	0.3	0.1	0.0	0.0	15
16	0.0	2.1	0.3	6.5	3.1	1.3	10	0.6	0.3	0.1	0.0	0.0	16
17	0.0	1.6	0.4	5.8	2.9	1.3	7.5	0.6	0.3	0.0	0.0	0.0	17
18	0.0	1.3	0.4	5.4	2.6	1.4	5.6	0.6	0.3	0.1	0.0	0.0	18
19	0.0	1.0	0.9	6.4	2.5	1.3	5.2	0.7	0.3	0.1	0.0	0.0	19
20	0.0	0.9	0.8	6.6	2.5	1.3	4.4	0.8	0.3	0.0	0.0	0.0	20
21	0.0	0.8	0.9	5.4	2.6	1.0	4.3	1.0	0.2	0.0	0.0	0.0	21
22	0.0	0.7	3.7	4.8	2.2	1.1	3.5	1.1	0.2	0.0	0.0	0.0	22
23	0.0*	0.6	332 #	24	2.1	1.2	3.1	1.2	0.3	0.0	0.0	0.0	23
24	0.0	0.6	585 E	34	2.0	1.1	2.9	1.0	0.3	0.0	0.0	0.0	24
25	0.0	0.6	49	9.8	1.8	1.1	2.8	1.2	0.3	0.0	0.0	0.0	25
26	0.0	0.8	228 E	7.9	1.9	1.1	2.5	1.0	0.2	0.0	0.0	0.0	26
27	0.0	0.6	132	6.7	3.9	9.8	2.4	1.1	0.2	0.0	0.0	0.0	27
28	0.0	0.5	188	6.2	2.9	3.8	2.2	0.9	0.2	0.0	0.0	0.0	28
29	0.0	0.4	64	6.2		2.0	2.0	0.9	0.2	0.0	0.0	0.1	29
30	0.0	0.4	80	5.5		1.8	1.8	0.8	0.2	0.0	0.0	0.1	30
31	0.0		234 E	5.2		1.8		0.8		0.0	0.0		31
MEAN	0.0	4.5	61.4	59.0	4.6	1.9	25.5	1.1	0.3	0.1	0.0	0.0	MEAN
MAX.	0.0	44.0	585 E	730 E	22.0	9.8	300 E	1.8	0.7	0.2	0.0	0.1	MAX.
MIN.	0.0	0.0	0.3	4.8	1.8	1.0	1.3	0.6	0.2	0.0	0.0	0.0	MIN.
AC. FT.		268	3780	3630	256	120	1520	65	21	4			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
13.3	5900 E	9.37	1	7	0010	0.0		10	1	0000	9660

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M O B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 29 42	120 14 17	SE17 5S 16E	9200E	10.66	2-15-62	DEC 58-DATE		1958		0.00	LOCAL

Station located 130 feet south of Stockton-Mariposa road, 0.2 mile southwest of Hornitos. Tributary of San Joaquin River via Bear Creek. Drainage area is 26.7 square miles. Maximum discharge of record from rating curve extended above 398 cfs. by slope-area measurement of peak flow. Previously reported as 4,340 cfs. Altitude of gage is approximately 780 feet (from U. S. Geological Survey topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	8564[illegible]	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	157	14	7.0	[illegible]	6.[illegible]	0.0	[illegible]	0.[illegible]	0.[illegible]	1
2	0.0	0.0	0.0	100	14	6.0	5.0	6.[illegible]	0.[illegible]	0.0	0.[illegible]	0.[illegible]	2
3	0.0	0.0	0.0	138	13	6.0	5.0	5.[illegible]	0.0	0.0	[illegible].0	0.0	3
4	0.0	0.0	0.0	124	11	5.0	5.0	5.[illegible]	0.0	0.0	0.0	0.[illegible]	4
5	0.0	0.0	0.0	78	24	5.0	5.0	4.[illegible]	0.0	0.[illegible]	[illegible].0	[illegible].0	5
6	0.0	0.0	0.0	412	53	5.0	5.0	3.6	0.[illegible]	0.0	0.[illegible]	0.0	6
7	0.0	0.0	0.0	1529	30	5.0	5.0	2.8	0.0	0.0	0.0	0.[illegible]	7
8	0.0	0.0	0.0	465	19	5.[illegible]	13	2.6	0.[illegible]	0.0	0.0	0.0	8
9	0.0	0.0	0.0	125	14	5.0	81	3.[illegible]	0.0	0.0	0.0	0.0	9
10	0.0	18	0.0	96	13	4.0	232	2.2	0.0	[illegible].0	[illegible].0	0.0	10
11	0.0	14	0.0	84	11	4.0	275	1.7	0.0	[illegible].0	0.0	0.0	11
12	0.0	35	0.0	60	10	5.0	82	1.5	0.0	0.0	[illegible]	0.0	12
13	0.0	19	0.0	55	9.[illegible]	6.0	123	1.4	0.0	0.0	0.0	0.0	13
14	0.0	5.0	0.0	46	9.0	6.0	120	1.2	0.0	0.0	0.0	0.0	14
15	0.0	3.0	0.0	40	9.0	5.0	52	1.[illegible]	0.0	0.0	0.0	0.0	15
16	0.0	2.0	0.0	35	8.0	5.0	36	.7	0.[illegible]	0.[illegible]	[illegible]	[illegible]	16
17	0.0	1.5	0.0	30	8.0	5.0	24	[illegible].4	0.0	0.0	0.0	0.0	17
18	0.0	1.2	0.1	26	8.0	4.0	17	0.2	0.0	0.0	0.0	0.0	18
19	0.0	1.0	0.2	26	8.0	4.0	14	[illegible].1	0.0	0.0	0.0	0.0	19
20	0.0	0.8	0.1	30	7.0	4.0	11	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.5	0.1	25	7.0	3.5	9.[illegible]	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.4	0.2	20	6.0	3.5	9.0	[illegible]	0.[illegible]	0.0	0.0	0.[illegible]	22
23	0.0	0.3	303	19	6.0	3.5	9.0	[illegible]	0.0	0.0	0.0	0.0	23
24	0.0	0.2	761	98	5.0	3.0	10	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.2	164	46	5.0	3.0	11	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.1	253	28	5.0	3.0	13	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.1	434	22	6.0	5.0	12	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	494	21	8.0	8.0	10	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	237	19		8.0	9.0	[illegible]	0.0	0.0	0.0	0.0	29
30	0.0	0.0	198	16		6.0	8.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0		452	15		5.0		0.0		0.0	0.0		31
MEAN	0.0	3.4	106	129	12.0	4.9	40.0	1.6	0.0	0.0	0.0	0.0	MEAN
MAX	0.0	35.0	761	1529	53.0	8.0	275	6.[illegible]	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	15.0	5.0	3.0	5.0	0.0	0.0	0.0	0.0	0.0	MIN
AC. FT.		203	6540	7904	674	302	2410	96					AC. FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
25.0	1672		1	7		0.0		10	1		18130

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
37 22 27	120 16 35	NE 36 6S 15E	2590		12-24-55	APR 50-DATE		1950		260.60	USCGS

Station located 0.5 mile below Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	807400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33	20	9.8	2670	315	75	95	160	118	144	45	127	1
2	27	21	8.7	2510	292 *	80	88	146	137	107	50	143	2
3	26	19	8.1 *	2040	263	69	95	155	183	83	55	138	3
4	28	17	8.2	1670	242	46	95	161	186 *	74	55 *	123	4
5	31 *	14 *	7.9	1480	231	41	83	151	204	76	53	117	5
6	30	10	7.9	1580	221	39	70	144	185	88 *	51	118	6
7	28	9.7	7.7	2020	223	40	56	140	230	92	53	128 *	7
8	27	9.4	7.4	3930 *	252	40	132	127	213	86	53	131	8
9	27	9.9	7.0	4310 *	241	43 *	277	123	197	78	57	135	9
10	27	10	7.4	4350	258	44	825	118	237	71	55	203	10
11	26	8.4	8.0	3410	258	47	1150	114	232	63	55	189	11
12	25	9.3	7.6	2530	235	53	1820	102	215	60	53	173	12
13	21	8.8	7.6	1900	200	59	2140	89	190	60	58	170	13
14	19	17	7.8	1370	173	90	2150 *	78	175	57	69	160	14
15	17	87	7.8	1030	163	118	2070	76	196	54	71	166	15
16	15	65	8.3	837	153	111	1850	77	172	54	75	184	16
17	15	30	8.6	732	141	81	1610	85	167	46	86	192	17
18	17	33	9.0	635	123	60	1420	96	155	42	94	198	18
19	15	33	11	574	90	53	1150	104	137	42	96	195	19
20	15	30	9.9	535	68	57	884	99	124	40	94	191	20
21	15	26	9.1 E	488	60	52	728	83	121	38	93	179	21
22	15	23	9.6 E	461	54	58	580	90	89	47	94	151	22
23	14	22	11 E	442	52	61	521	100	78	49	91	134	23
24	16	21	70 E	410	52	66	474	110	98	58	88	141	24
25	16	19	469 E	424	50	66	347	124	99	61	101	149	25
26	12	17	975 E	458	53	62	343	127	115	50	110	143	26
27	10	15	1550 E	503	54	56	451	116	125	48	111	133	27
28	10	12	2240 #	523	62	55	366	105	137	46	119	129	28
29	16	12	2720 *	469		80	258	105	157	41	115	118	29
30	35	9.7	3150	397		143	196	115	159	40	109	111	30
31	31		2920	352		124		116		47	110		31
MEAN	21.3	21.3	461	1472	164	66.7	744	114	161	62.6	78.0	152	MEAN
MAX.	35.0	87.0	3150	4910	315	143	2150	161	237	144	119	203	MAX.
MIN.	10.0	8.4	7.0	352	50.0	39.0	56.0	76.0	78.0	38.0	45.0	111	MIN.
AC. FT.	1307	1266	28340 E	90530	9082	4104	44280	7014	9582	3852	4798	9062	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
294	5020	72.20	1	9	1340	6.8	60.38	12	9	1500	213200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	6060	73.04	2-17-62	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	B00975	PANOCHE DRAIN NEAR DO[illegible] PAL[illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	18	12	27 *	16	13	58	37	20	45	5[illegible] *	60	40	1
2	20	12 *	23	15	15	55	38	21	45	59 *	60	59	2
3	19	11	21	17	14	53 *	41	23	42 *	56	58	56	2
4	19	12	20	14	17	52	40	24 *	42	52	59	52	4
5	19	14	15	16	17	52	34 *	24	46	48	58	47	5
6	18	12	15	19	17	49	29	25	45	45	58	48	6
7	18	13	23	19	18	47	29	39	43	46	58	50	7
8	17	14	26	17	19	47	25	42	44	46	56	[illegible]	8
9	16	17	22	15	19	47	25	38	44	49	58	[illegible]	9
10	17	28	33	13	20	47	25	34	43	50	63	[illegible]	10
11	19	18	24	13	17	47	25	39	42	51	66	54	11
12	18	19	21	13 *	20	49	23	43	42	55	67	52	12
13	18	15	18	15	21	54	23	43	42	57	67	51	12
14	16	12	17	15	21	46	22	43	44	57	68	48	14
15	18 *	11	18	14	25	47	23	46	47	57	68	46	15
16	18	13	17	17	25	46	24	46	49	56	68	44	16
17	16	14 E	20	14	32 *	45	25	47	51	54	68	43	17
18	15	19 E	28	13	40	47	26	43	53	51	67	43	18
19	17	15 #	23	13	40	45	23	41	56	50	65 *	43	19
20	18	13	21	13 E	41	44	22	44	61	49	63	32	20
21	20	11	20 *	13	44	42	23	46	63	46	63	26	21
22	17	15	20	13	44	47	21	48	57 *	49 *	63	26	22
23	17	24	22	13	44	49	20	48	52	49	63	25 *	23
24	13	22	19	13	51	46	20	49	50	49	64	26	24
25	15	21	14	13	51	40	19	48	50	48	65	26	25
26	16	21	18	13	53	39	21	48	48	49	67	30	26
27	17	20	22	13	55	42	22	52	47	49	68	30	27
28	20	20	18	14	58	37	21	46	49	52	68	25	28
29	45	23	18	13		36	21	44	53	58	66	24	29
30	20	23	16	12		36	22	47	54	58	61	24	30
31	13		18	12		40		49		59	58		31
MEAN	18.2	16.5	20.5	14.3	30.4	46.2	25.6	46.[illegible]	48.3	51.8	63.3	4[illegible].7	MEAN
MAX	45.0	28.0	33.0	19.0	58.0	58.0	41.0	52.0	63.0	59.0	68.0	6[illegible].0	MAX.
MIN	13.0	11.0	14.0	12.0	13.0	36.0	19.0	20.0	4[illegible].0	45.0	56.0	24.0	MIN
AC. FT	1121	980	1263	879	1688	2838	1525	2479	2874	3185	3890	2479	AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
34.8	69.0	8.73	8	16	1040	[illegible].5	[illegible].36	11	21	1410	25200

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M O B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 55 25	120 41 19	NW 5 12S 12E	[illegible].0	8.[illegible]	8-14-6[illegible]	FEB 59-SEP 62 OCT 64-DATE	OCT 62-JUL [illegible]	1959	DATE	-2.[illegible]	LOCAL

Station located midway between Outside and Main Canals [illegible].5 mile sout of Main Canal levee road, 5.6 [illegible]iles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is [illegible]perat[illegible] under a cooperative a[illegible]reement between the Department of Water Resources and the Pano[illegible]he Drainage District. Altitude [illegible]f [illegible]age is a proxi[illegible]ately 140 feet (from U. S. Geological Survey topographic [illegible]ap).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	352600	NORTH FORK MERCED RIVER NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.4	1.7	1.4	33	6.6	12	19	18	7.9	2.7	1.2	1.3	1
2	0.5	0.8*	2.3	23	4.4	11	23	19	7.3	3.2	1.0	1.0	2
3	0.5	0.3	2.6	54	2.2	9.7	25	18	7.0	2.5	1.2*	0.7	3
4	0.5	0.6	2.1	87 *	1.8	9.7	22	18	6.5	2.1	1.0	0.8	4
5	0.3	1.2	2.1	251 E	24 *	9.7	21	17	7.1	1.9	1.1	0.8	5
6	0.2	0.6	2.1	1380 E	32	11	27	17	6.7	1.9	1.0	1.2	6
7	0.2*	1.5	2.2*	656 E	16	12	33	15 *	6.2*	2.1	0.8	1.4*	7
8	0.2	2.6	2.1	203	12	11	60 *	14	6.6	2.8	0.8	1.3	8
9	0.1	5.8	2.5	126	11	10	93	14	6.6	2.5	0.7	1.1	9
10	0.3	8.0	2.6	96	8.7	10 *	84	13	6.3	2.1	0.8	1.0	10
11	0.5	8.6	5.7	82	8.2	12	68	13	5.9	2.1	1.1	1.3	11
12	0.2	39 *	5.9	73	8.2	16	67	12	5.8	1.9	1.6	1.7	12
13	0.1	15	5.1	65	8.0	18	96	12	5.8	1.9	1.4	1.5	13
14	0.2	6.9	4.8	57	9.3	16	126	11	5.4	1.9	1.3	1.5	14
15	0.2	4.4	4.4	51	8.5	14	124	11	5.1	1.9	0.9	1.2	15
16	0.2	3.1	4.8	44	8.3	14	105	10	4.9	1.8	0.8	0.8	16
17	0.2	2.7	4.4	38	8.6	13	82	11	4.6	1.4	1.1	1.1	17
18	0.1	2.5	4.2	32	9.1	11	68	10	4.8	1.4	0.9	1.3	18
19	0.1	1.7	27	30	8.7	11	58	10	4.9	1.0	0.8	1.2	19
20	0.2	1.6	32	26 *	8.8	11	51	10	4.7	1.2	0.6	1.8	20
21	0.4	1.7	23 *	18	11	11	45	10	4.9	1.1*	0.5	1.4	21
22	0.4	1.5	227 E	12	11	11	38	10	5.0	0.9	0.6	1.0	22
23	0.7	1.4	865 #	28	11	11	34	9.9	4.6	0.9	0.6	1.2	23
24	0.9	1.1	739 E	85	9.7	11	32	9.5	5.1	1.0	0.5	0.9	24
25	0.9	1.1	150	54	9.9*	11	29	8.7	4.5	1.3	0.4	1.1	25
26	1.0	2.1	142	38	9.7	11	25	8.3	4.8	1.4	0.4	1.4	26
27	1.1	1.6	425	29	16	40	22	8.4	4.4	1.3	0.5	1.3	27
28	2.5	1.5	228	21	13	32	21	8.1	3.8	1.2	0.5	1.6	28
29	3.1	1.5	106	15		23	20	7.8	3.3	1.6	0.5	2.1	29
30	0.6	1.5	70	12		19	19	8.2	3.2	1.5	0.6	2.5	30
31	0.6		56	9.2		18		7.8		1.5	0.5		31
MEAN	0.6	4.1	102	120	10.6	14.2	51.2	11.9	5.5	1.7	0.8	1.3	MEAN
MAX.	3.1	39.0	865 E	1380 E	32.0	40.0	126	19.0	7.9	3.2	1.6	2.5	MAX.
MIN	0.1	0.3	1.4	9.2	1.8	9.7	19.0	7.8	3.2	0.9	0.4	0.7	MIN.
AC. FT.	35	245	6251E	7395	587	873	3049	733	325	107	51	76	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
27.2	1860 E	6.67	1	6	0740	0.0		10	4	1920	19730

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 44 51	120 02 12	NW 19 2S 18E	3440E	7.83	1-31-63	DEC 58-DATE		1958		0.00	LOCAL

Station located 40 feet above Greeley Hill Road Bridge, 9 miles northeast of Coulterville. Drainage area is 30.3 square miles. Altitude of gage is 2,360 feet (from U. S. Geological Survey topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
[illegible]	[illegible]	[illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	[illegible]	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1
2	[illegible]	.2*	[illegible]	31	[illegible]	[illegible]	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2
3	[illegible]	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3
4	[illegible]	.1	2.2	83 *	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4
5	[illegible]	.1	[illegible]	76	[illegible] *	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5
6	[illegible]	[illegible]	1.1	656 E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6
7	[illegible]	[illegible]	1.2*	355 E	[illegible]	[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7
8	[illegible]	.1	1.0	77	[illegible]	[illegible]	13 *	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8
9	[illegible]	[illegible]	[illegible]	39	[illegible]	[illegible]	137	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9
10	[illegible]	8.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
11	[illegible]	8.3	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11
12	[illegible]	78 *	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12
13	[illegible]	33	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13
14	[illegible]	5.4	1.6	8.5	4.6	3.6	146	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14
15	[illegible]	2.5	1.4	7.5	4.4	[illegible]	96	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15
16	[illegible]	1.6	1.2	6.1	[illegible]	2.8	52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16
17	[illegible]	1.1	[illegible]	5.2	[illegible]	[illegible]	32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17
18	[illegible]	.8	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18
19	[illegible]	.6	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19
20	[illegible]	.5	11	[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20
21	[illegible]	.5	10	4.2	3.2	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21
22	[illegible]*	0.5	224 E	[illegible]	3.4	1.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22
23	[illegible]	[illegible]	760 #	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23
24	[illegible]	.4	578 E	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24
25	[illegible]	0.3	57	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25
26	[illegible]	1.2	143	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26
27	[illegible]	0.7	232	7.2	4.2	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27
28	[illegible]	0.5	137	7.0	3.5	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28
29	[illegible]	[illegible]	60	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	29
30	[illegible]	[illegible]	50	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30
31	[illegible]		88	[illegible]		[illegible]	[illegible]			[illegible]	[illegible]		31
MEAN	[illegible]	4.9	77.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MEAN
MAX.	[illegible]	78.[illegible]	760 E	656 E	[illegible]	25.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MAX.
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MIN
AC. FT.		293	4750	3227	254	233	2878	[illegible]	84	16	[illegible]	2	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
16.5	1770 E	5.71	12	23	[illegible]	[illegible]		[illegible]	1	0000	11970

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M O B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 42 58	120 11 20	SE 34 2S 16E	1770E	5.71	12-23-65	DEC 58-DATE		1958		0.00	LOCAL

Station located below Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 698 cfs. Altitude of gage is 1,740 feet (from topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.3	81	294	87	606	58	13 *	564	1270	418	106	66	1
2	1.4*	63	466 *	63	68	4010 *	12	2340	1280 *	719 *	102 *	66 *	2
3	1.4	70	202	48	286	4350	11	2490 *	1340	422	99	70	3
4	1.3	68 *	281	47	1660 *	3780	11	2470	1380	398	97	66	4
5	1.4	64	56	87	1890	1810	741	2430	1390	399	97	67	5
6	1.7	43	34	4700	2290	3690	1340	2410	1420	331	104	66	6
7	1.5	35	26	12600 *	2660	3710	1380	2390	1700	225	96	67	7
8	1.5	40	21	8720 *	1010	3660	1770	2390	2570	214	88	78	8
9	1.7	52	18	5990	79	3440	1990	2310	3040	216	83	92	9
10	1.7	230	16	3750	46	3130	2990	2240	3210	185	79	77	10
11	2.0	427	15	2070 *	39	3010	3420	2210	3250	50	76	72	11
12	2.1	532	13	172	466	1940	684	1950	3260	144	86	68	12
13	1.8	1280	12	943	2300	781	109	1040	3240	137	88	72	13
14	1.8	943	11	2330	2310	2780	453	1010	3260	136	101	71	14
15	1.8	685	10	2570	2230	2840	3020 *	995	3250	121	96	62	15
16	1.8	510	9.8	2580	1680	2970	3150	990	2140	121	93	59	16
17	1.7	347	9.2	2160	1170	2970	3160	1010	621	122	97	57	17
18	1.9	237	13	674	956	2180	2930	1020	571	131	83	52	18
19	1.9	220	22	102	916	122	258	1030	610	136	82	46	19
20	1.8	185	19	73	219	130	48	1040	545	122	82	43	20
21	1.8	256	23	57	1210	127	441	1090	475	122	82	46	21
22	1.8	201	71	752	1060	108	2790	1140	255	121	82	47	22
23	3.1	178	83	2210	999	90	2810	1180	234	117	84	43	23
24	3.6	164	158	3110	955	81	2580	1200	341	115	67	41	24
25	3.8	176	136	3230	112	76	2180	1240	1060	108	63	40	25
26	3.9	287	121	3040	66	70	284	1250	1090	113	75	41	26
27	4.1	318	150	1810	48	71	134	1270	607	112	76	35	27
28	4.2	306	144	129	37	127	137	1270	221	106	71	32	28
29	6.4	433	120	67		89	194	1270	228	112	71	52	29
30	6.1	255	90	1720		22	204	1290	236	117	71	97	30
31	71		94	1900		16		1290		110	67		31
MEAN	4.6	290	88.3	2187	977	1682	1308	1543	1470	197	85.3	59.7	MEAN
MAX	71.0	1280	466	12600	2660	4350	3420	2490	3260	719	106	97.0	MAX.
MIN.	1.3	35.0	9.2	47.0	37.0	16.0	11.0	564	221	106	63.0	32.0	MIN.
AC. FT.	284	17230	5431	134500	54280	103400	77840	94850	87460	12110	5244	3552	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM				MINIMUM				TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
823	14500	17.10	1	7	1230	1.2	4.73	10	4	1650	596200

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		0.00	LOCAL

Station located 0.2 mile below Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and Lake McClure. Prior to November 1958, records available for a site 3.6 miles downstream. Altitude of gage is 221 feet. U. S. Geological Survey datum.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	805155	MERCED RIVER AT [illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT.	DAY
1	32	42	317	511	1690	194	134 *	157	[illegible]	[illegible]	136	[illegible]	1
2	30 *	57 *	389 *	285	552	1810	117	1470	[illegible] *	544	145	107 *	2
3	29	83	476	229	338	3950	106	2360 *	1344	[illegible]	133 *	119	3
4	31	82	298	244	1080 *	4080	97	2410	1390	419	124	120	4
5	30	85	321	202	1910	2160 *	144	2380	1390	409	128	128	5
6	25	93	144	1290	2190	294[illegible]	1360	2380	1400	412 *	128	132	6
7	29	94	94	11500 *	2750	3580	1600	2350	1410	331	127	135	7
8	26	84	81	10200 *	2410	3590	1930	2310	[illegible]	263	14[illegible]	143	8
9	27	86	68	7400 *	703	3530	2140	2320	267[illegible]	250	138	145	9
10	23	96	58	4650	369	3190	2830	2260	291[illegible]	208	122	147	10
11	16	225	62	3220 *	287	307[illegible]	3800	2200	2980	178	121	137	11
12	24	514	51	1270	253	2890	2690	216[illegible]	[illegible]	[illegible]	115	138	12
13	25	832	42	615	1450	900	727	1420	2760	143	147	145	13
14	20	1330	37	2070	2390	2130	669	1160	2950	134	152	134	14
15	15	934	34	2580	2400	2770	1990 *	1140	297[illegible]	116	158	152	15
16	26	740	33	2700	2150	2870	3390	1130	262[illegible]	96	150	149	16
17	34	594	33	2690	1620	2960	3430	115[illegible]	110[illegible]	95	133	131	17
18	32	438	31	181[illegible]	1330	291[illegible]	3410	1163	[illegible]	[illegible]	126	145	18
19	31	345	33	649	1210	1060	1940	1150	74[illegible]	11[illegible]	131	139	19
20	29	298	33	419	873	422	477	111[illegible]	[illegible]	11[illegible]	119	134	20
21	27	272	38	354	883	375	282	11[illegible]	667	[illegible]	114	123	21
22	26	309	41	315	1340	342	1760	1240	478	11[illegible]	125	120	22
23	26	272	132	1790	1260	295	2900	1280	348	12[illegible]	125	123	23
24	28	248	1410 *	2750	1230	243	2870	13[illegible]	313	119	104	121	24
25	28	221	912	3320	856	243	2530	1317	616	126	109	1[illegible]9	25
26	29	233	392	3320	349	229	1490	1[illegible]	1[illegible]0	11[illegible]	111	116	26
27	29	345	849	2730	276	232	470	1340	1[illegible]	[illegible]	119	123	27
28	30	369	494	1190	239	252	341	1330	4[illegible]	126	112	12[illegible]	28
29	44	397	603	454		323	324	1310	292	122	123	114	29
30	51	467	368	712		242	364	132[illegible]	26[illegible]	12[illegible]	12[illegible]	112	30
31	45		454	2250		152		13[illegible]		126	121		31
MEAN	28.9	340	269	2377	1228	1740	1544	1574	1467	203	128	129	MEAN
MAX	51.[illegible]	1330	1410	11500	2750	4080	3800	2410	300[illegible]	500	158	152	MAX
MIN	15.0	42.0	31.0	202	239	152	97.0	357	260	[illegible].0	104	107	MIN
AC FT	1779	20200	16520	146200	58210	107000	91860	96817	86970	12470	7872	7658	AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
916	14100	27.40	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	663500

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	T 4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67	12-4-50	JUL 41-DATE	APR 41-JUL 41	195[illegible]		96.24	SCPS

Station located 150 feet below McSwain Bridge, immediately north of Cressey. Prior to May 2[illegible], 196[illegible], station located 250 feet upstream. Altitude of gage is approximately 85 feet. U. S. Coast and Geodetic Survey datum.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	808720	ORESTIMBA CREEK NEAR CROWS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.2	47	0.2	6.0	0.0*	0.0	89	14	7.9	12	29	43	1
2	2.9	43	0.1	2.5	0.0	0.0	29	4.8	11 *	26	24	23	2
3	3.0	48	0.0	0.3	0.0	0.0	7.4	2.2	22	13	7.9	12	3
4	5.1	49 *	0.0	73	0.0	0.0*	32	2.3	30	13	8.2*	39	4
5	13 *	46	0.0	40 *	0.0	3.7	85	1.5*	10	19	14	21	5
6	15	33	0.0	225	0.0	22	90	0.8	7.0	13 *	14	19	6
7	17	22	0.0	335	0.0	12	58 *	1.8	9.7	13	15	21 *	7
8	18	18	0.4	0.0	0.0	2.3	84	1.5	14	13	14	8.8	8
9	8.9	17	1.4	0.0	0.0	0.4	104	2.0	18	10	11	7.6	9
10	4.7	17	0.6	0.0	0.0	0.4	86	1.7	7.7	13	7.9	11	10
11	4.9	18	0.7	0.0	0.0	1.0	157	2.4	5.9	16	7.3	8.9	11
12	3.5	17	1.7	0.0	0.2	3.1	75	3.7	5.4	36	9.3	8.6	12
13	2.9	19	1.5	0.0	1.9	3.4	59	2.9	6.0	57	19	36	13
14	1.3	23	2.0	0.0	1.2	1.5	49	2.6	5.2	17	67	43	14
15	1.1	19	1.0	0.0	0.0*	0.7	23	5.0	14	20	44	14	15
16	0.8	16	0.9	0.0	0.0	0.7	25	14	19	20	20 *	16	16
17	0.1	13	0.5	0.0	0.0	1.0*	41	6.8	15	19	29	14 *	17
18	0.0	12	0.3	0.0*	0.0	0.2	52	5.8	31	20	15	19	18
19	0.8	8.0	1.1	0.0	0.0	0.3	44	6.4	21	33	14	6.7	19
20	2.5	4.7	0.6	0.0	0.1	0.4	17	6.9	37	18	8.9	5.8	20
21	3.0	3.8	0.3*	0.0	0.5	1.8	42	5.3	15	20	22	0.1	21
22	1.7	2.8	0.3	0.0	0.3	2.4	65	5.9	7.6	17	12	0.6	22
23	0.7	3.3	0.2	0.0	0.3	3.4	49	8.6	7.7	16	18	2.9	23
24	0.1	3.5	0.3	0.0	1.3	3.2	19	21	8.2	13	8.2	41	24
25	0.0	3.7	0.1	0.0	1.0	5.0	2.4	20	11	15	7.8	5.1	25
26	0.0	4.0	0.1	0.0	0.0	3.7	2.1	42	21	27	8.6	0.3	26
27	10	3.9	0.0	0.0	0.0	6.5	2.6	32	16	13	26	13	27
28	21	3.5	0.1	0.0	0.0	2.6	5.6	27	15	12	27	0.6	28
29	28	1.8	0.1	0.0		7.6	4.9	9.9	13	14	10	0.6	29
30	53	0.6	0.1	0.0		4.0	5.4	10	11	17	9.4	17	30
31	64		0.1	0.0		20		11		14	17		31
MEAN	9.3	17.4	0.5	22.0	0.2	3.7	46.8	9.1	14.1	18.7	17.6	15.3	MEAN
MAX.	64.0	49.0	2.0	335	1.9	22.0	157	42.0	37.0	57.0	67.0	43.0	MAX.
MIN.	0.0	0.6	0.0	0.0	0.0	0.0	2.1	0.8	5.2	10.0	7.3	0.1	MIN.
AC. FT.	574	1033	29	1352	13	225	2786	559	838	1148	1080	910	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM				MINIMUM				TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
14.6	526	5.72	1	6	1400	0.0		10	17	1640	10550

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 24 59	121 00 45	SW 8 6S 9E	2650E	12.08	2-1-63	DEC 57-DATE		1957		0.00	LOCAL

Station located 0.1 mile below River Road Bridge, 3.7 miles northeast of Crows Landing. This includes drainage returned to San Joaquin River. Daily flows are estimated during periods of backwater from San Joaquin River. Maximum discharge of record from rating curve extended above 1,654 cfs. Altitude of gage is approximately 50 feet (from U. S. Geological Survey topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	[illegible]	[illegible]AN JOAQUIN [illegible]IVER AT [illegible]HYLEN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	755	1080	810	4670	2910	135[illegible]	141[illegible]	145[illegible]	1770	[illegible]	580	73[illegible]	1
2	770	1150	810	4700	3220	123[illegible]	148[illegible]	1290	1790	1040	625	73[illegible]	2
3	820	860	780	4690	2860	128[illegible]	146[illegible]	1430	1770	775	605	710	3
4	880	735	780	4620	2510	2720	153[illegible]	1890	1770	1090	575	680	4
5	880	720	810	4520	1950	348[illegible]	158[illegible]	2640	1790	108[illegible]	540	71[illegible]	5
6	875	705	750	4370	2720	3560	156[illegible]	2760	1840	995	520	770	6
7	845	690	750	4400	3230	320[illegible]	163[illegible]	2810	187[illegible]	985	530	765	7
8	860	685	690	4820	3520	345	221[illegible]	2860	194[illegible]	1010	580	745	8
9	835	685	660	5100	3590	367[illegible]	27[illegible]	291[illegible]	2120	995	610	785	9
10	810	620	630	5310	3480	3760	3190	2960	2680	955	625	785	10
11	780	660	660	5480	2880	3730	363[illegible]	2920	3020	910	595	825	11
12	795	660	660	5470	2240	368[illegible]	413	2830	319[illegible]	865	770	850	12
13	825	675	660	5170	1910	354[illegible]	442[illegible]	275[illegible]	3290	990	835	840	13
14	845	780	630	5160	1900	332	4470	2670	3450	835	865	790	14
15	810	705	575	4890	2810	2620	4390	2180	3480	740	870	715	15
16	765	735	550	4560	3180	3140	4390	1857	3430	705	785	715	16
17	735	1400	560	4340	3180	3350	4560	1770	3450	675	715	775	17
18	705	1150	555	4210	3020	3430	461[illegible]	1710	3160	640	650	820	18
19	705	1100	555	3910	2690	3430	4620	1720	2010	625	600	835	19
20	705	1120	565	3680	2390	3100	4510	1740	1590	650	645	820	20
21	705	1080	560	3150	2180	1820	403[illegible]	1750	1530	660	620	770	21
22	720	1010	555	3380	1790	1520	35[illegible]	1770	1370	645	670	820	22
23	705	980	590	2500	1910	1320	3320	1810	1280	595	695	775	23
24	675	810	1090	3590	2220	1180	366[illegible]	1910	1170	550	685	760	24
25	675	910	3260	3240	2280	1090	3790	2020	1120	580	665	730	25
26	705	880	4140	3980	2170	106[illegible]	3790	1970	1130	605	685	740	26
27	705	845	4190	3830	1890	1110	3670	1870	1430	615	655	750	27
28	720	810	4360	4060	1470	1120	3170	1830	1640	605	670	820	28
29	895	845	4470	3830		1150	2210	1780	1470	570	655	835	29
30	910	845	4580	3260		1230	1720	1710	1190	580	715	865	30
31	1065		4640	2670		1280		1730		540	695		31
MEAN	790	864	1480	4244	2575	2416	3178	2106	2091	779	662	776	MEAN
MAX.	1065	1400	4640	5480	3590	3760	4620	2960	3480	1090	870	865	MAX.
MIN.	675	620	550	2500	1470	1060	1410	1290	1120	540	520	680	MIN
AC. FT.	48555	51431	90992	260945	143008	148562	189104	129501	124443	47891	40711	46175	AC. FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
R — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
1825	5500	39.25	1	12	0600						1321318

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 33 47	121 09 06	NW 25 4S 7E	23900	45.15	3-8-41	JUL 28-DATE			1959	0.00	USED
								1960		0.00	USCGS
								1960		3.81	USED

Station located at Laird Slough Bridge, 5 miles above the Tuolumne River. High flows bypaasing this station through old channel of San Joaquin River are included in figures shown. Records furnished by City of San Francisco.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	B04175	TUOLUMNE RIVER AT LAGRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.6	586	1140 *	7140	2920	2780	642	526	531	1030	23	23	1
2	7.0*	621	921	7010	2880	2800	1990	514	1180	424	38 *	25	2
3	2.7	609	993	6900	2890 *	2310 *	2460	517	1100	353	22	26 *	3
4	18	615	1050	6820	3110	1730	2560	653	1100 *	356	46	148	4
5	7.9	641	764	6920	3870	1620	2090	1250	920	355	115	2.6	5
6	13	742	723	7940	4450	1650	1820 *	1230 *	523	352 *	67	0.2	6
7	7.2	610	1030	7530 *	4470	2150	1870	1180	510	351	23	0.6	7
8	2.4	595	1000	7020	4410	2470	1870	1110	558	351	23	0.1	8
9	2.5	694	978	7250	4450	2080	2800	1110	738	351	77	0.1	9
10	0.4	804 *	1020	7540	3980	693	3360	737	541	351	96	0.1	10
11	0.4	825	1060	7700	3680	336	3890	471	683	613	24	0.1	11
12	1.6	886	895	7610	3700	32	4540	477	1890	962	22	0.1	12
13	5.8	1200	759	7120	3700	27	5050	471	2290	388	21	0.1	13
14	10	1620	1310	3520	3660	37	5770	470	1350	392	21	19	14
15	9.6	1190	1310	2380	3160	132	6330	478	1150	375	21	13	15
16	9.5	906	1240	2380	2860	60	5040	460	2290	96	36	12	16
17	20	1080	1220	2330	2870	131	3720	794	1650	24	61	9.9	17
18	22	2000	1330	2230	2880	130	3590	1130	841	23	25	11	18
19	20	2050	1220	2250	2870	77	3440	1050	524	22	21	18	19
20	14	1940	1060	2300	2850	35	2860	1140	504	22	21	379	20
21	14	1890	1450	2380	2780	23	2880	1220	1260	92	20	497	21
22	15	1750	1870 E	2320	3100	22	2910	1550	2060	163	23	532	22
23	21	1530	3060 E	2310	3650	20	2890	2030	2070	25	26	537	23
24	19	1190	6360 E	2270	3720	315	2730	1850	2080	24	26	683	24
25	77	946	6030	3030	3510	318	2630	1210	1840	23	26	737	25
26	524	835	6170	3940	2910	333	2640	786	2060	23	25	711	26
27	653	860	6140	3480	2860	25	2160	704	2150	24	24	725	27
28	618	862	6700 *	3180	2780	21	1710	651	2140	23	24	890	28
29	577	860	6880	3170		315	1030	462	1570	23	24	1140	29
30	619	967	6850	3150		322	542	467	1390	22	23	1220	30
31	615		7090	3080		642		465		22	22		31
MEAN	127	1064	2569	4652	3392	763	2927	876	1316	247	34.4	279	MEAN
MAX.	653	2050	7090	7940	4470	2800	6330	2030	2290	1030	115	1220	MAX.
MIN.	0.4	586	723	2230	2780	20.0	542	460	504	22.0	20.0	0.1	MIN.
AC. FT.	7793	63280	157900	286000	188400	46880	174200	53880	78330	15180	2114	16580	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
1506	9190	76.49	1	7	0340	0.0		9	6	1830	1091000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 39 59	120 27 40	NW 20 3S 14E	48200	188.0	12-8-50	OCT 36-SEP 60 OCT 61-DATE		1937		0.00	USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by reservoirs and powerplants. Drainage area is 1,540 square miles. Altitude of gage is approximately 175 feet (from U. S. Geological Survey topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	804165	TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	29	708	1100 *	7450	2950	2880	562	516	423	1430	52	[illegible]	1
2	33 *	731	951	7280	2860	2900	1770	481	[illegible]	451	49 *	42	2
3	38	734	944	7220	2860 *	2630 *	2390	456	1190	402	53	46 *	3
4	40	730	1030	7150	2910	2010	2530	499	1112 *	367	54	9[illegible]	4
5	37	727	862	7150	3620	1800	2290	1190	1060	365	75	116	5
6	48	772	682	8040	4330	1820	1910 *	1220 *	516	364 *	146	4[illegible]	6
7	45	866	786	7900 *	4390	2040	1940	1190	467	364	105	3[illegible]	7
8	50	705	968	7230	4340	2500	1880	112[illegible]	528	368	60	33	8
9	46	721	938	7560	4380	2420	2540	11[illegible]0	707	365	54	36	9
10	43	885 *	968	7650	4130	114[illegible]	3230	871	528	367	96	33	10
11	45	977	998	7940	3630	649	3570	441	526	434	123	31	11
12	40	1070	949	7790	3620	167	4180	430	1320	104[illegible]	64	29	12
13	38	1270	764	7530	3660	114	4810	425	236[illegible]	58[illegible]	57	29	13
14	36	1950	1000	4510	3620	97	5170	428	1590	418	52	26	14
15	44	1590	1280	2710	3360	163	5950	416	1150	438	50	3[illegible]	15
16	51	121[illegible]	1250	2660	2920	152	5250	419	192[illegible]	20[illegible]	48	43	16
17	50	94[illegible]	1190	2620	2900	176	3650	582	1910	126	55	36	17
18	55	2170	1300	2500	2910	194	3460	1090	1130	56	87	37	18
19	53	2300	1290	2500	2930	156	3440	1040	550	52	55	36	19
20	52	2330	1150	2530	2920	115	2800	1120	53[illegible]	53	48	176	20
21	54	2200	1250	2590	2860	84	278[illegible]	1200	839	55	44	499	21
22	53	2030	1800	2550	2960	72	2780	1310	1990	225	43	546	22
23	53	1830	3670	2500	3590	68	2770	1930	2[illegible]	86	42	749	23
24	59	1335	7120	2470	3710	206	2650	1810	2040	57	39	640	24
25	59	1190	6710	2840	3660	388	2510	1440	2[illegible]2	48	45	763	25
26	415	925	6880	3940	3010	401	2500	841	182[illegible]	49	48	749	26
27	841	860	6760	3710	2980	263	2250	674	212[illegible]	51	44	7[illegible]6	27
28	822	871	7070	3240	2900	84	1760	623	211[illegible]	54	44	87[illegible]	28
29	789	853	7360	3220		210	1310	435	1840	54	45	119[illegible]	29
30	765	872	7200 *	3180		390	570	423	1330	55	40	1340	30
31	759		7330	3110		670		423		56	34		31
MEAN	179	1212	2689	4879	3390	870	2840	843	1286	291	59.7	297	MEAN
MAX	841	2330	7360	8040	4390	2900	5950	1900	2360	1430	146	1340	MAX
MIN	29.0	705	682	247	2860	68.0	562	416	423	48.0	34.0	26	MIN
AC FT.	10990	72090	165300	300000	188300	53470	169000	51850	76530	17920	3671	[illegible]	AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
1556	8760	17.[illegible]7	1	6	1710	2[illegible].[illegible]	[illegible].32	9	14	6[illegible]	112[illegible]

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 38 08	120 37 03	NW35 3S 12E	49800	128.2	12-8-50	JUL 28-OCT 36 JAN 37-FEB 38 JUN 38-DATE		1930 1940	194[illegible] 	106.20 0.00	USCGS USCGS

Station located at highway bridge, 7.5 miles east of Waterford. Flow regulated by reservoirs and powerplants.
Altitude of gage is approximately 110 feet (from U. S. Geological Survey topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	804150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	89	633	1070	7700	3100	2950	817	597	517	1670	129	120	1
2	94 *	644	1080	7530	2960	2980	1840	568	1010	565	128	121	2
3	97	675	946 *	7440	2930 *	2770 *	2730	549	1130	523	127 *	124 *	3
4	102	674	1010	7320	2960	2050	2940	518	1150 *	463	132	125	4
5	97	683	959	7270	3650	1780	2750	1070 *	1140	458	142	225	5
6	102	704	773	8020	4340	1800	2240 *	1220	660	455	217	140	6
7	103	796	788	8030 *	4420	1960	2290	1210	561	455 *	188	132	7
8	107	675	1000	7140	4390	2550	2240	1120	605	468	149	116	8
9	110	688	975	7480	4380	2530	2830	1120	752	458	132	115	9
10	108	819 *	967	7510	4230	1300	3750	990	655	467	161	113	10
11	111	890	1000	7840	3680	710 *	4030	529	606	471	213	110	11
12	107	945	1010	7680	3700	302	4650	508	1140	1080	200	115	12
13	107	1040	855	7460	3720	251	5430 *	501	2560	746	149	113	13
14	121	1630	907	5110	3670	160	5800	499	1750	500	134	110	14
15	185	1490	1270	2820 *	3470	170 *	6790 *	488	1170	517	131	109	15
16	141	1150	1280	2730	2950	238	6280	501	1860	381	130	125	16
17	136	868	1200	2660	2950	200	4480	572	2160	222	132	122	17
18	132	1820	1240	2550	2960	257	4220	1110	1310	143	161	122	18
19	128	2130	1290	2540	2950	236	4180	1070	660	127	152	124	19
20	128	2170 *	1190	2530	2940	208	3490	1140	604	125	133	143	20
21	130	2100	1160	2600	2890	163	3370	1230	719	132	125	571	21
22	133	1990	1620	2590	2960	147	3330	1260	2060	258	122	659	22
23	133	1890	3120	2580	3600	140	3320	1960	2130	187	123	670	23
24	144	1410 *	7260	2490	3780	167	3100	1930	2160	128	125	724	24
25	148	1270	6930	2790	3760	436	2850	1680	2200	117	122	875	25
26	247	1040	6750 *	4010	3130	451	2830	928	1890	120	129	873	26
27	642	931	6990	3860	3040	433	2650	770	2250	124	125	879	27
28	643	947	7240	3330	2970	175	1970	722	2260	130	125	941	28
29	665	923	7740 *	3290		182	1590	556	2060	131	125	1230	29
30	613	932	7530	3260		447	684	520	1400	132	120	1440	30
31	650		7580	3210		650		507		137	114		31
MEAN	208	1152	2733	4947	3446	929	3316	901	1371	384	142	380	MEAN
MAX.	665	2170	7740	8030	4420	2980	6790	1960	2560	1670	217	1440	MAX.
MIN.	89.0	633	773	2490	2890	140	684	488	517	117	114	109	MIN.
AC. FT.	12800	68540	168100	304200	191400	57110	197300	55420	81580	23580	8717	22580	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1645	8710	79.03	1	6	2000	86.0	71.3	10	1	0000	1191000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		0.00	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. Altitude of gage is approximately 80 feet. U. S. Coast and Geodetic Survey datum. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	804130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	51 *	40	18	699	43 *	25	162	82	69	112	130	65	1
2	52	33	18	301	40	23 *	117	80	88	90	142	64	2
3	48	28	18	185	39	23	77	84	132	118	132 *	61 *	3
4	53	25 *	20 *	192	38	23	90	90 *	121 *	125	126	58	4
5	54	23	21	168 *	39	24	97 *	77	122	121	116	58	5
6	57	21	23	288	37	23	125	88	149	132	88	66	6
7	50	21	19	2830 *	74	23	120	89	148	140 *	46	79	7
8	58	20	19	1300	80	23	121	94	136	121	50	86	8
9	87	21	19	414	57	23	121	89	91	110	59	94	9
10	101	45	18	259	47	23	254	96	89	77	59	123	10
11	109	117	16	195	43	31	1130	92	130	55	74	119	11
12	116	94	14	159	41	43	546	94	143	58	108	123	12
13	111	92	14	137	37	1240 *	261	120	155	54	119	121	13
14	106	92	15	123	35	530	518	88	152	45	90	108	14
15	107	104	17	109	34	136 *	241	70	139	37	78	121	15
16	90	70	15	97	32	91	166	73	140	39	62	124	16
17	69	47	14	90	31	63	128	77	136	37	66	181	17
18	65	37	14	85	31	50	109	77	135	37	80	191	18
19	56	34	13	77	30	45	98	70	130	34	71	174	19
20	66	31	13	72	28	40	87	72	115	38	79	98	20
21	39	27	14	73	28	39	84	75	121	48	78	95	21
22	36	25	19	76	28	38	82	77	116	46	61	80	22
23	34	23	291	69	27	49	80	91	127	44	61	78	23
24	37	21	1880 *	66	26	53	106	128	131	41	65	70	24
25	39	18	2280	131	26	62	99	123	129	42	67	83	25
26	39	17	525 *	115	25	73	78	66	126	52	62	80	26
27	35	17	1220	83	25	113	52	59	163	90	62	111	27
28	35	18	956 *	67	24	148	56	54	157	98	66	127	28
29	96	17	893	57		119	54	65	132	104	69	129	29
30	108	17	449	51		110	65	66	112	104	78	102	30
31	62		357	47		100		65		107	65		31
MEAN	66.0	39.8	298	278	37.3	110	178	82.9	128	76.0	80.9	102	MEAN
MAX	116	117	2280	2830	80.0	1240	1130	128	163	140	142	191	MAX.
MIN	34.0	17.0	13.0	47.0	24.0	23.0	52.0	54.0	69.0	34.0	46.0	58.0	MIN
AC. FT.	4058	2370	18290	17090	2073	6756	10560	5100	7605	4673	4977	6087	AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
123	3390	84.52	12	25	0350	13.0	67.71	12	14	0740	89640

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE 24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile below Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. Prior to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. Altitude of gage is approximately 80 feet. U. S. Coast and Geodetic Survey datum.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	6 41 5	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	285	840	1220	8700	3660	3110	1270	1390	940	1870	450	370	1
2	285	810	1390	8790	3580	3090	1490	1290	915	1810	455	380	2
3	285	790	1340	8480	3450	3170	2490	1220	1410	1140	450	375	3
4	285	810	1280	8230	3370	2830	3070	1180	1560	1050	430	375	4
5	275	810	1340	8140	3580	2550	3040	1180	1590	945	430	385	5
6	290	815	1220	7860	4090	2480	3010	1660	1600	920	425	405	6
7	290	850	1150	8140	4590	2340	2760	1810	1240	870	435	405	7
8	290	920	1130	11100	4780	2590	2840	1790	1090	860	410	400	8
9	295	860	1290	8190	4840	2990	2870	1740	1100	845	415	400	9
10	310	925	1270	8300	4840	2950	3510	1760	1220	775	395	400	10
11	325	1130	1290	9630	4400	2040	451	1580	1220	785	430	410	11
12	325	1240	1320	9650	4010	1590	5430	1180	1230	810	510	405	12
13	330	1270	1270	9430	3950	1600	5800	1120	1950	1250	575	410	13
14	345	1430	1110	8820	3950	2040	6370	1080	2860	1000	510	400	14
15	350	1950	1310	6750	3970	1070	6820	1040	2420	770	425	390	15
16	390	1820	1590	5100	3740	910	716	975	1990	745	435	405	16
17	340	1500	1580	4350	3460	905	6520	1000	2580	630	410	430	17
18	295	1280	1530	4010	3390	875	5670	1100	2520	530	405	450	18
19	275	2100	1640	3790	3330	915	5490	1510	1780	450	390	440	19
20	255	2410	1630	3580	3200	855	5310	1520	1230	410	395	435	20
21	250	2420	1530	3340	3260	740	4650	1570	1120	410	400	NR	21
22	255	2360	1640	3260	3180	690	4610	1670	1390	455	400	NR	22
23	255	2230	2120	3210	3340	665	3880	1880	2270	455	390	NR	23
24	250	2100	4310	3180	3760	660	3900	2360	2440	445	380	NR	24
25	245	1790	8140	3210	3870	680	3820	2340	2490	410	390	NR	25
26	240	1520	8000	3700	3760	855	3660	2020	2430	405	395	NR	26
27	280	1280	8730	4460	3210	925	3580	1450	2380	410	390	NR	27
28	575	1210	8420	4560	3200	915	3040	1280	2400	430	380	1180	28
29	840	1190	8560	4210		725	2490	1180	2550	430	380	1230	29
30	900	1180	8710	3940		735	1980	1040	2280	435	400	1470	30
31	840		8540	3750		895		970		430	375		31
MEAN	356	1391	3081	6154	3777	1589	4034	1448	1807	745	421	NR	MEAN
MAX.	900	2420	8730	10100	4840	3110	7160	2360	2860	1870	575	NR	MAX.
MIN.	240	790	1050	3180	3180	660	1270	970	915	405	375	NR	MIN.
AC. FT.	21917	83790	189421	378367	209772	97716	240 79	89028	107494	45818	25884	NR	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
	10500	39.50	1	8	0300						

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 36 12	121 07 50	NW 7 4S 8E		46.65	12-9-50	30-DATE			1959	0.00	USED
								1960		0.00	USCGS
								1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Records furnished by City of San Francisco.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	[illegible]	[illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	NR	NR	1850	[illegible]	[illegible]	[illegible]	281	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1
2	NR	NR	1920	[illegible]	636	44	326	[illegible]	[illegible]	[illegible]	83	[illegible]	2
3	NR	NR	2000	[illegible]	616	416	[illegible]	[illegible]	[illegible]	[illegible]	835	[illegible]	3
4	NR	NR	1960	[illegible]	574	486	453	41[illegible]	[illegible]	[illegible]	870	[illegible]	4
5	NR	NR	1940	991[illegible]	549	[illegible]	478	41[illegible]	[illegible]	[illegible]	9[illegible]	114	5
6	NR	NR	1930	945	589	[illegible]	471	[illegible]	39[illegible]	1947	88	118	6
7	NR	NR	1870	953	456	413	450	434	408	186	45	12[illegible]	7
8	NR	NR	1810	1785	6940	[illegible]	48	43[illegible]	411	184	36	12[illegible]	8
9	NR	NR	1780	1191	7170	[illegible]	[illegible]	451	46[illegible]	[illegible]	260	[illegible]	9
10	NR	NR	1780	1211	715	[illegible]	428	47[illegible]	457	171	274	[illegible]	10
11	NR	NR	1770	1231	668	618	684	47[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11
12	NR	NR	1780	1256	6760	489	736	4340	[illegible]	162	[illegible]	[illegible]	12
13	NR	NR	1810	1230	577	[illegible]	667	416	[illegible]	[illegible]	[illegible]	[illegible]	13
14	NR	NR	178[illegible]	1191	567	528	912	391[illegible]	[illegible]	14[illegible]	143	23	14
15	NR	NR	1710	1230	593	[illegible]	[illegible]	355	618	[illegible]	136	[illegible]	15
16	NR	NR	1770	955	[illegible]	[illegible]	551	306	[illegible]	[illegible]	[illegible]	[illegible]	16
17	NR	NR	1860	9460	[illegible]	41[illegible]	947	179	546	[illegible]	[illegible]	[illegible]	17
18	NR	NR	1860	7840	533	417	912	261	[illegible]	[illegible]	[illegible]	[illegible]	18
19	NR	NR	1910	7470	550	428	907	287	307	[illegible]	[illegible]	[illegible]	19
20	NR	NR	1970	708	536	[illegible]	692	242	29[illegible]	[illegible]	[illegible]	1350	20
21	NR	NR	1930	647	51[illegible]	322	[illegible]	29[illegible]	16[illegible]	985	99	1,9[illegible]	21
22	NR	NR	1870	6760	4930	258	767	30[illegible]	[illegible]	985	[illegible]	135	22
23	NR	NR	2260	5960	4300	218	[illegible]	224	198	945	[illegible]	149	23
24	NR	NR	2680	518	5230	2[illegible]	727	417	317	970	[illegible]	1540	24
25	NR	2260	8640	649	552	178	752	445	317[illegible]	[illegible]	965	161	25
26	NR	2210	[illegible]	59[illegible]	55[illegible]	186	744	424	[illegible]	[illegible]	99	[illegible]	26
27	NR	21[illegible]	10690	741	[illegible]	197	[illegible]	462	[illegible]	[illegible]	[illegible]	[illegible]	27
28	NR	1980	11230	755	465	213	467	3[illegible]	383	[illegible]	[illegible]	193	28
29	NR	1900	11470	720		216	643	277	341	[illegible]	[illegible]	198	29
30	NR	1860	10440	670		214	507	25[illegible]	376	965	[illegible]	1,4[illegible]	30
31	NR		11110	624		238		253		[illegible]	[illegible]		31
MEAN	NR	NR	3913	9[illegible]38	5851	3852	6738	3695	3931	484	[illegible]28	1351	MEAN
MAX.	NR	NR	11470	12561	7170	618	951	477	618	2720	1437	.140	MAX.
MIN	NR	NR	1700	596	465	178	281	253	243	96	83	1030	MIN
AC FT.	NR	NR	240875	55874	1,4932	336866	4[illegible]919	[illegible]7167	[illegible]	[illegible]140	631[illegible]	[illegible]	AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
	1257[illegible]	32.4[illegible]	[illegible]	12	16[illegible]						

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 38 10	121 12 54	NE 32 3S 7E	384[illegible]	38.43	4-2-40	MAR 33-DATE			1959	[illegible]	USED
								196[illegible]		[illegible]	USCGS
								196[illegible]		3.51	USED

Station located 2.9 miles above the mouth of the Stanislaus River. Records furnished by City of San Francisco.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	21 *	105	141	5440	2720	1740	1490	4450	473	535 *	40	39	1
2	22	113	153	4700	2700 *	1740	1670	4130	1230	777	44 *	45 *	2
3	21	113	125	3460	2650	1730 *	1710	3420	1790 *	835	37	50	3
4	23	109 *	139 *	1940 *	2430	1720	1690	2590 *	2350	578	38	48	4
5	21	103	140	2150	2310	1720	1680 *	1950	4000	654	33	52	5
6	20	103	108	6340	2330	1730	1650	1850	4470	1030	36	58	6
7	23	104	121	12500	2360	1730	1550	1930	4440	887	35	52	7
8	22	106	121	9940	2370	1720	1710	2540	4360	540	37	47	8
9	24	129	98	6570	2370	1700	2150	2950	4310	292	39	38	9
10	32	192	84	5680	2360	1500	2630	2910	4210	140	40	72	10
11	28	126	68	4740 *	2320	1090	3710	2860	4130	103	36	68	11
12	25	153	60	3780	2330	1650	3830	2850	4050	69	54	69	12
13	24	168	71	3480	2330	2280	3960	2530	4010	59	44	74	13
14	29	113	82	2930	2320	2050	3780	2230	3630	52	44	93	14
15	76	102	74	2710	2290	2010	3880	1340	2900	42	40	99	15
16	88	101	95	2720	2060	1990	3890	498	1640	41	32	109	16
17	88	99	367	2720	1640	1980	3740	129 *	451	39	29	107	17
18	87	98	170	2730	1680	1960	3430	87	337	42	35	103	18
19	87	103	132	2640	1660	1940	3340	76	217	40	37	106	19
20	84	106	142	2660	1650	1920	3550 *	75	179	41	33	110	20
21	83	118	376	2870	1620	1800	3750	210 *	170	44	45	104	21
22	80	111	1830 *	4030	1600	1480	4300	1940	160	38	44	57	22
23	82	172	6060	4620	1580	1240	4640	2680	138	37	42	42	23
24	97	173	26500 *	4070	1600	917	4340	2460	545	44	40	38	24
25	100	103	16900	3570	1720	808	4030	2310	1500	41	37	38	25
26	95	142	8670 *	2620	1730	544	3930	1850	1390	37	38	36	26
27	88	133	10500	2290	1750	1130	3920	868	870	38	47	30	27
28	85	112	10600	2500	1740	1380	4270	478	243	37	40	33	28
29	102	94	8420 *	2720		1410	4480	251	192	43	38	29	29
30	100	96	6340	2720		1390	4350	252	664	45	39	29	30
31	120		5870	2730		1410		216		40	42		31
MEAN	60.5	120	3373	4018	2079	1594	3235	1771	1968	234	39.2	62.5	MEAN
MAX.	120	192	26500	12500	2720	2280	4640	4450	4470	1030	54.0	110	MAX.
MIN.	20.0	94.0	60.0	1940	1580	544	1490	75.0	138	37.0	29.0	29.0	MIN.
AC. FT.	3723	7140	207400	247100	115500	98000	192500	108900	117100	14360	2410	3719	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
1544	38800	26.36	12	24	1710	19.0	1.35	10	5	2050	1118000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 47 18	120 45 41	SW 4 2S 11E	52000	30.05	11-21-50	JUN 28-DEC 39 APR 40-DATE				0.00	LOCAL

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter. Altitude of gage is approximately 70 feet (from U. S. Geological Survey topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	803145	STANISLAUS RIVER AT RIVERBANK

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	76 *	178	130	5690	2730	1770	1500	4500	491	664	100	104	1
2	72	165	206	4900	2710 *	1770	1670	4380	1100	780	104 *	108 *	2
2	68	171	194	3830	2660	1760	1720	3720	1670 *	938	108	117	2
4	66	170 *	158	2300 *	2520	1740 *	1710	2950 *	1910	764	96	122	4
5	74	169	192	2000	2330	1740	1700 *	2240	3190	685	96	124	5
6	75	167	180	4320	2340	1730	1710	2090	4140	916	92	117	6
7	76	166	148	10800	2350	1740	1590	2080	4190	975 *	93	115	7
8	74	161	182 *	10700	2370	1730	1630	2490	4140	732	92	111	8
9	74	166	174	6970	2360	1740	2060	2960	4080	523	98	104	9
10	73	256	148	5770	2360	1630	2680	2980	3980	311	102	119	10
11	73	264	131	5230 *	2320	1360	3560	2950	3910	243	103	143	11
12	75	201	111	3960	2310	1260	4050	2910	3820	196	145	140	12
12	74	241	100	3730	2290	2390	4210	2730	3750	160	138	140	12
14	106	208	132	3180	2290	2010	4000	2330	3600	144	123	148	14
15	117	161	144	2880	2270	1980	4050	1700	2980	128	126	171	15
16	144	146	140	2850	2220	1960	4080	884	2040	127	118	181	16
17	154	143	363	2830	1760	1930	4040	320 *	980	120	101	191	17
18	148	139	350	2810	1780	1920	3730	230	653	130	104	185	18
19	149	134	279	2770	1760	1900	3520	201	503	119	105	193	19
20	151	138	281	2710	1750	1880	3780 *	198	401	108	109	210	20
21	146	142	270	2800	1730	1830	3780	201 *	378	112	110	213	21
22	147	148	1220 *	3350	1710	1590	4290	1140	345	113	115	190	22
23	145	140	3830	4710	1690	1420	4930	2240	306	109	114	138	23
24	148	234	16700 #	4070	1660	1120	4640	2250	311	112	122	115	24
25	161	153	18900 E	3830	1770	1040	4360	2030	1280	114	121	120	25
26	160	173	9170 *	2820	1790	893	4140	1990	1440	117	118	120	26
27	157	184	10300	2430	1800	1050	4040	1140	1090	114	120	112	27
28	158	167	10800	2490	1780	1450	4180	788	647	117	113	108	28
29	192	149	9240 *	2750		1460	4670	508	332	114	114	115	29
30	185	129	6780	2730		1470	4460	485	602	103	112	115	30
31	169		6010	2730		1470		488		105	108		31
MEAN	119	172	3128	4030	2122	1637	3349	1874	1942	322	110	140	MEAN
MAX.	192	264	18900 F	10800	2730	2390	4930	4500	4190	975	145	213	MAX.
MIN.	66.0	129	100	2000	1660	893	1500	198	306	103	92.0	104	MIN.
AC. FT.	7313	10240	192300	247800	117800	100600	199300	115200	115600	19820	6783	8309	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1576	26800 E	97.92	12	25	0000	65.0	72.63	10	4	1200	1141000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
34 44 31	120 56 21	SW 24 2S 9E	85800	103.18	12-23-55	JUL 40-DATE		1940		0.00	USCGS

Station located at Burneyville Bridge, immediately north of Riverbank. Drainage area is 1,055 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	903115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	188	211	203	5460	2700	1780	1840	4350	705	903	289	305	1
2	185 *	212	199	5300	2690 *	1780	1900	4380	767	822	254 *	298 *	2
3	165	203	224 *	5000	2670	1780	2070	4250	1340 *	922	242	319	3
4	157	200	235	4120 *	2610	1770 *	2160	3660	1790	1050	249	356	4
5	169	202 *	219	2660	2440	1770	2140	2790 *	2300	955	229	363	5
6	168	202	226	2680	2320	1770	2190	2260	3380	943	234	387	6
7	165	200	227	4630	2320	1770	2190 *	2160	3990	1120 *	249	378	7
8	174	201	209	6770	2340	1760	2050	2230	4140	1070	284	355	8
9	195	204	216	6320	2340	1800	2240	2740	4200	831	279	348	9
10	180	213	219	5700	2350	1840	2710	3050	4210	660	233	337	10
11	186	266	206	5350	2330	1620	3170	3010	4150	547	239	332	11
12	173	305	197	5050	2310	1360	3880	2970	4340	474	312	343	12
13	169	282	186	4400	2310	1960	4220	2950	4020	391	350	334	13
14	183	290	177	3920	2300	2330	4340	2670	4010	343	344	327	14
15	189	265	187	3350	2300	2190	4240	2380	3780	315	325	296	15
16	193	232	194	3070	2290	2120	4200	1720	3140	293	325	355	16
17	210	218	193	3000	2050	2070	4210	1160	2080	290	277	391	17
18	211	209	275	2950	1780	2040	4150	811	1200	352	241	382	18
19	192	203	328	2920	1760	2030	3910	659	1000	336	253	371	19
20	181	200	304	2820	1740	2020	3800	647	857	312	247	426	20
21	176	200	298	2790	1720	2000	3930	565	788	285	268	426	21
22	172	201	323	2970	1680	1900	4010	637	672	287	276	373	22
23	175	202	1230	3680	1660	1700	4340	1840	597	257	243	351	23
24	181	201	3440 *	4320	1630	1500	4630	2550	553	273	229	339	24
25	187	235	8415 F	4130	1670	1230	4570	2490	757	270	241	352	25
26	192	228	7070 E	3630	1760	1150	4380 *	2440	1510	264	251	389	26
27	191	219	6600 E	2780	1780	1090	4180	1990	1540	253	243	419	27
28	194	229	6815 E	2460	1780	1460	4110	1280	1260	242	234	377	28
29	202	222	6715 E	2600		1600	4240	990	781	261	263	384	29
30	225	211	6300 E	2730		1640	4410	798	621	237	332	369	30
31	227		5710	2720		1660		754		261	306		31
MEAN	186	222	1850	3880	2130	1758	3480	2167	2139	510	269	359	MEAN
MAX.	227	305	8415 F	6770	2700	2330	4630	4380	4210	1120	350	426	MAX.
MIN.	157	200	177	2460	1630	1090	1840	565	553	237	229	296	MIN.
AC. FT.	11420	13220	113700E	238600	118300	108100	207100	133300	127300	31380	16540	21390	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1575	9670 F	49.81	12	25	0710	147	27.18	10	4	0130	1140000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M O B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 41 57	121 10 06	SW 2 3S 7E				OCT 62-DATE	MAR 50-SEP 62	1950	1951	0.00	USED
								1951		0.00	USED
								1951		3.60	USCGS

Station located on left bank 9.35 miles above mouth, 0.6 mile northwest of Bacon and Gates Road junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. When the water stage reaches a gage height of 45 feet (approximately 6,000 cfs), and overflow condition occurs at the gage making it necessary to estimate flows above 45-foot stage. These estimates are based on flows at the Stanislaus River at Ripon gage. Altitude of gage is approximately 50 feet.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	[illegible]	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1410	2120	2130	1820	8500	594	419	6[illegible] *	3370	[illegible]	1[illegible]	[illegible]	1
2	1480 *	2140	2210	17800	8750	574 *	467 *	641	3350	36[illegible]	1[illegible]6	149[illegible]	2
3	1420	2050	2290 *	17300	8620 *	561	524	6[illegible] *	3[illegible] *	31[illegible]	1[illegible]	13[illegible]	3
4	1390	1860	2140	16600	812[illegible]	6[illegible]5	6[illegible]	645	461	30[illegible]	1[illegible]	1320	4
5	1410	1820	2170	15200	773[illegible]	674	64[illegible]	615	503[illegible]	308	955	142[illegible]	5
6	1430	1790	2150	14[illegible]00	7040	7[illegible]2	639	58[illegible]	5[illegible]70	291	485	154[illegible]	6
7	1450	1770	2020	14300	8720	678	62[illegible]	589	6640	285	1[illegible]3	154[illegible]	7
8	1400	1790	1930	18100 *	9360	67[illegible]	6470	5920	6750	286[illegible]	111[illegible]	16[illegible]	8
9	1410	1780	2020	21800 *	9780	732	678	63[illegible]	683[illegible]	274	114	151[illegible]	9
10	1430	1790	2020	22[illegible]00	9835	71[illegible]	771	67[illegible]	71[illegible]	2[illegible]4[illegible]	1[illegible]8	14[illegible] *	10
11	1470	1900 *	1990	22000	9267	715	928	67[illegible]	74[illegible]	2[illegible]	1[illegible]	14[illegible]	11
12	1440	2050	2020	22700	8360	63[illegible]	11[illegible]	64	7670	[illegible]	134	157	12
13	1440	2080	2040	22100	7930	6[illegible]0	12[illegible]	62[illegible]	8[illegible]1[illegible]	23[illegible]	172[illegible]	1[illegible]1[illegible]	13
14	1500	2150	1940	20500	7730	718	38[illegible] *	596	9130	23[illegible]	1820	151[illegible]	14
15	1520	2460	1840	18000 *	7970	599[illegible]	141	536	9260	[illegible]	175[illegible]	136[illegible]	15
16	153[illegible]	3010	206[illegible]	151[illegible]	8430	546	14[illegible] *	461	84[illegible]	176[illegible]	68[illegible]	1360	16
17	1460	2950	21[illegible]	1280[illegible]	826	571	45	395	764	16[illegible]	38	151[illegible]	17
18	1360	2610	2120	11500	7790	5790	43	354	5950	144	124	16[illegible]	18
19	1290	2660	2220	10800	7430	532	36[illegible]	3[illegible]8	5490	12[illegible] *	1[illegible]7	16[illegible]	19
20	1180	2190	2310	1[illegible]10	7100	574	35[illegible]	367[illegible]	4140	12[illegible]	1[illegible]6	17[illegible]	20
21	1140	3280	2261	922	69[illegible]	486	1[illegible]	361	764	112[illegible]	1[illegible]	1[illegible]0	21
22	1150	3240	2240	865	6610	406	115	374	934	1[illegible]8	1[illegible]7	17[illegible]	22
23	1140	3120	2780	8677	6470	36[illegible]	1[illegible]6	454	87[illegible]	11[illegible]	126	15[illegible]	23
24	1140	3000	4950	9220	5890	329	3[illegible]80	5[illegible]9[illegible]	393[illegible]	1[illegible]	11[illegible]	18[illegible]	24
25	1160	2750	14000	9630	7150	292	112	628	3950	11[illegible]	114[illegible] *	1950	25
26	1200 *	2520	19800 *	10100	7180	288	111	614[illegible]	4[illegible]	[illegible]	1[illegible]	2180	26
27	1220	2300	18700	1[illegible]400	6810	291	1[illegible]6	554	478[illegible]	[illegible]	121[illegible]	2[illegible]90	27
28	1410	2180	20100	1[illegible]580	6340	327	973	452	508[illegible] *	11[illegible]	114	2[illegible]70	28
29	1780	2150	20900	1[illegible]200		343	842	393[illegible]	484	1[illegible]8	12[illegible]	24[illegible]0	29
30	1940	2150	205[illegible]0 *	9600		342	793	362[illegible]	418	1050 *	126[illegible]	2060	30
31	2050		19200	8800		366		36[illegible]		1010	121[illegible]		31
MEAN	1411	2355	6037	14385	7028	53[illegible]6	9859	5206	5650	1073	1221	1478	MEAN
MAX	205[illegible]	328[illegible]	209[illegible]0	227[illegible]0	987[illegible]	77[illegible]	145[illegible]	689[illegible]	[illegible]28	372	182[illegible]	2560	MAX.
MIN	114[illegible]	177[illegible]	1840	865[illegible]	6340	288	4[illegible]9	350[illegible]	334	1[illegible]1	955	118[illegible]	MIN
AC. FT.	86780	140200	371200	884[illegible]	440[illegible]	32[illegible]5[illegible]	586[illegible]	3256[illegible]	336[illegible]	1213	[illegible]	[illegible]	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
5247	[illegible]	[illegible].27	[illegible]	[illegible]	[illegible]						[illegible]

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 40 34	121 15 51		79000	27.75	12-9-50	JUL 22-DEC 23		1931		8.4	USED
						JAN 24-FEB 25					
						JUN 25-OCT 28			1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 30 feet above the Durham Ferry Highway Bridge, 3 miles below the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 14,010 square miles. Natural flow of stream affected by storage reservoirs, power development, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	C01120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	22	0.0	0.0	0.0	58	0.0	0.0	0.0	0.0	18	24	113	1
2	17	0.0	0.0	0.0	58	0.0	0.0	0.0	0.0	18	23	113	2
3	17	0.0	0.0	0.0	61	0.0	0.0	0.0	0.0	18	22	140	3
4	17	0.0	0.0	0.0	63	0.0	0.0	0.0	0.0	18	21	162	4
5	18	0.0	0.0	0.0	61	0.0	0.0	0.0	0.0	20	19	165	5
6	19	0.0	0.0	0.0	61	0.0	0.0	0.0	0.0	19	19	172	6
7	19	0.0	0.0	0.0	22	0.0	0.0	0.0	0.0	19	66	172	7
8	19	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	19	94	169	8
9	19	0.0	0.0	26	13	0.0	0.0	0.0	0.0	6.0	102	172	9
10	18	0.0	0.0	54	4.0	0.0	0.0	0.0	0.0	0.0	102	189	10
11	18	0.0	0.0	54	0.0	0.0	0.0	0.0	0.0	0.0	107	220	11
12	16	0.0	0.0	52	0.0	0.0	0.0	0.0	0.0	0.0	110	220	12
13	6.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	110	220	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113	234	14
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113	234	15
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111	213	16
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	113	175	17
18	0.0	0.0	0.0	0.0	0.0	0.0	[illegible]	0.0	0.0	18	122	159	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22	128	149	19
20	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	24	110	125	20
21	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	0.0	24	122	125	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11	24	125	122	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	26	127	122	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	26	131	102	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	28	128	20	25
26	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	18	28	119	0.0	26
27	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	18	24	113	0.0	27
28	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	18	24	113	0.0	28
29	0.0	0.0	0.0	45		0.0	0.0	0.0	18	24	119	0.0	29
30	0.0	0.0	0.0	54		0.0	0.0	0.0	18	24	122	0.0	30
31	0.0		0.0	57		0.0		0.0		24	110		31
MEAN	7.0	0.0	0.0	13.0	15.0	0.0	1.0	0.0	5.0	16.0	95.0	133	MEAN
MAX.	22.0	0.0	0.0	57.0	63.0	0.0	21.0	0.0	18.0	28.0	131	234	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	0.0	MIN.
AC. FT.	446			819	823		71		296	1004	5867	7948	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
23.9											17274

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D B.&M.	OF RECORD CFS	OF RECORD GAGE HT.	OF RECORD DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OH GAGE	REF. DATUM
36 10	119 50	20S 19E									

Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	CD2602	CROSS CREEK BELOW LAKELAND CANAL N2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28				22									28
29				27									29
30													30
31													31
MEAN				1.6									MEAN
MAX.				27									MAX.
MIN.				0.0									MIN
AC FT.				97									AC FT

E — ESTIMATED
NR — NO RECORD
• — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND •

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
0.1						0.0		10	1	0000	97

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 12 42	119 34 05	NE10 20S 22E				21-DATE					

Station located below Cross Creek Weir, 4 miles east of Guernsey. Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records furnished by the Corcoran Irrigation District.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	C03130	ELK BAYOU NEAR TULARE[a]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	*					*				0.0			1
2			*				*			0.0			2
2										0.0			3
4				*						0.0			4
5		*						*		0.0			5
6										0.0			6
7									*	b *			7
8													8
9					*								9
10													10
11													11
12	N	N	N	N	N	N	N	N	N				12
13	O	O	O	O	O	O	O	O	O				13
14													14
15													15
16	F	F	F	F	F	F *	F	F	F				16
17	L	L	L	L	L	L	L	L	L				17
18	O	O	O	O	O *	O	O	O	O				18
19	W *	W	W	W *	W	W	W	W	W				19
20		*											20
21													21
22													22
23									*				23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN
AC FT.													AC FT

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# – E AND *
a – SEE NOTE (a) BELOW
b – SEE NOTE (b) BELOW

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
						0.0		10	1	0000	

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 08 37	119 19 48	SW36 20S 24E	261	2.35	2-5-63	OCT 58-DATE	MAR 57-SEP 58	1959		0.00	LOCAL

Station located 1.8 miles west of U. S. Highway 99, 5.8 miles south of Tulare. Prior to March 4, 1960, station located 700 feet west of U. S. Highway 99, 4.5 miles south of Tulare. Tributary to Tule River. Prior records, 1942 to July 1953, available at a site 1 mile east of Elk Bayou Avenue, 3.6 miles below Old Highway 99 Bridge. Recorder installed March 6, 1957. Altitude of gage is approximately 250 feet (from U. S. Geological Survey topographic map).

(a) A partially opened gate in the control created a condition making it impossible to record low flows if such flow did occur.
(b) Station discontinued on July 7, 1965.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	[illegible]	FRIANT-KERN CANAL [illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1
2	0.0	0.0	0.0	[illegible]	25	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2
2	0.0	0.0	0.0	[illegible]	25	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3
4	0.0	0.0	0.0	[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4
5	[illegible]	0.0	0.0	[illegible]	25	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5
6	0.0	0.0	0.0	[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6
7	0.0	0.0	0.0	[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7
8	[illegible]	[illegible]	[illegible]	[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8
9	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]	6.[illegible]	[illegible]	[illegible]	[illegible]	9
10	0.0	0.0	0.0	[illegible]	0.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10
11	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.4	[illegible]	[illegible]	[illegible]	0.	11
12	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	15	13	[illegible]	[illegible]	[illegible]	12
13	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	15	15	[illegible]	[illegible]	[illegible]	13
14	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	15	15	[illegible]	[illegible]	[illegible]	14
15	[illegible]	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	15	15	[illegible]	[illegible]	[illegible]	15
16	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	16
17	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	15	15	[illegible]	[illegible]	0.	17
18	0.0	0.0	0.0	0.0	0.0	[illegible]	[illegible]	15	5.6	[illegible]	[illegible]	[illegible]	18
19	0.0	0.0	0.0	0.0	9.2	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	19
20	0.0	0.0	0.0	[illegible]	15	[illegible]	[illegible]	15	[illegible]	0.	[illegible]	[illegible]	20
21	0.0	0.0	0.0	0.0	22	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	21
22	0.0	0.0	0.0	0.0	25	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	22
23	0.0	0.0	0.0	0.0	22	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	23
24	0.0	0.0	0.0	0.0	14	[illegible]	[illegible]	15	0.[illegible]	0.0	[illegible]	[illegible]	24
25	0.0	0.0	0.0	10	7.3	[illegible]	[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	25
26	[illegible]	[illegible]	0.0	25	5.6	9.3	[illegible]	12	0.[illegible]	[illegible]	[illegible]	[illegible]	26
27	[illegible]	0.0	0.0	25	8.3	14	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	27
28	0.0	0.0	0.0	25	16	15	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	28
29	0.0	0.0	0.0	25		15	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	29
30	0.0	0.0	0.0	25		14	0.0	10	0.[illegible]	0.0	[illegible]	[illegible]	30
31	0.0		0.0	24		15		10		[illegible]	[illegible]		31
MEAN	0.0	0.0	0.0	5.1	13.0	4.5	[illegible]	9.1	4.1	0.0	[illegible]	[illegible]	MEAN
MAX	0.0	0.0	0.0	25.0	25.0	15.0	[illegible]	15.[illegible]	15.[illegible]	[illegible]	0.[illegible]	[illegible]	MAX.
MIN	0.0	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0	MIN
AC. FT.				315	721	276	[illegible]	56[illegible]	246				AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
2.9											2,129

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 05 00	119 04 50	SW20 21S 27E									

These flows are deliveries from Friant-Kern Canal into Porter Slough under contract agreement with the U. S. Bureau of Reclamation. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	211	140	0.0	42	187	0.0	0.0	85	1
2	0.0	0.0	0.0	0.0	210	140	0.0	0.0	187	0.0	0.0	100	2
3	0.0	0.0	0.0	0.0	209	179	0.0	0.0	187	0.0	0.0	109	3
4	0.0	0.0	0.0	0.0	211	180	0.0	0.0	187	0.0	0.0	110	4
5	0.0	0.0	0.0	0.0	211	180	0.0	0.0	187	0.0	0.0	110	5
6	0.0	0.0	0.0	0.0	211	179	0.0	0.0	187	0.0	0.0	110	6
7	0.0	0.0	0.0	0.0	211	160	0.0	0.0	62	0.0	0.0	110	7
8	0.0	0.0	5.0	0.0	211	151	0.0	109	0.0	0.0	0.0	110	8
9	0.0	0.0	4.0	0.0	207	151	0.0	140	0.0	0.0	0.0	110	9
10	0.0	0.0	6.0	0.0	162	50	0.0	140	0.0	0.0	0.0	110	10
11	0.0	0.0	1.5	0.0	95	0.0	0.0	151	0.0	0.0	0.0	126	11
12	0.0	0.0	0.0	0.0	152	0.0	0.0	132	0.0	0.0	0.0	135	12
13	0.0	0.0	0.0	0.0	190	0.0	0.0	120	0.0	0.0	0.0	135	13
14	0.0	0.0	0.0	0.0	190	0.0	0.0	120	0.0	0.0	0.0	135	14
15	0.0	11	0.0	0.0	190	0.0	0.0	143	0.0	0.0	0.0	135	15
16	0.0	78	0.0	0.0	190	0.0	0.0	155	0.0	0.0	0.0	135	16
17	0.0	23	0.0	0.0	190	0.0	85	155	0.0	0.0	0.0	151	17
18	0.0	0.0	0.0	0.0	190	0.0	122	155	0.0	0.0	0.0	159	18
19	0.0	31	0.0	0.0	190	0.0	122	155	0.0	0.0	0.0	159	19
20	0.0	52	0.0	0.0	190	0.0	122	155	0.0	0.0	0.0	159	20
21	0.0	46	0.0	0.0	190	0.0	122	155	0.0	0.0	0.0	159	21
22	0.0	34	0.0	0.0	190	0.0	122	155	0.0	0.0	0.0	159	22
23	0.0	67	0.0	0.0	190	0.0	140	155	0.0	0.0	0.0	161	23
24	0.0	38	0.0	0.0	190	0.0	147	155	0.0	0.0	0.0	161	24
25	0.0	32	0.0	95	190	0.0	147	154	0.0	0.0	0.0	161	25
26	0.0	0.0	0.0	234	190	0.0	147	155	0.0	0.0	0.0	161	26
27	0.0	0.0	0.0	234	117	0.0	147	155	0.0	0.0	0.0	161	27
28	0.0	0.0	0.0	234	73	0.0	147	155	0.0	0.0	0.0	161	28
29	0.0	0.0	0.0	234		0.0	147	155	0.0	0.0	0.0	161	29
30	0.0	0.0	0.0	219		0.0	147	175	0.0	0.0	57	161	30
31	0.0		0.0	211		0.0		187		0.0	85		31
MEAN	0.0	14.4	0.5	47.1	184	48.7	62.1	11.7	39.5	0.0	4.6	137	MEAN
MAX.	0.0	78.0	6.0	234	211	180	147	187	187	0.0	85.0	161	MAX.
MIN.	0.0	0.0	0.0	95.0	73.0	0.0	0.0	0.0	0.0	0.0	57.0	85.0	MIN.
AC. FT.		857	33	2898	10217	2995	3697	7196	2348		282	8130	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
5.3											38650

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M.D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OH GAGE	REF. DATUM
36 04 25	119 05 15	NW29 21S 27E									

These flows are deliveries from Friant-Kern Canal into Tule River under contract agreements with the U. S. Bureau of Reclamation. Delivery is located on the Tule River approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	C321	NORTH FORK [illegible] RIVER AT SPRINGVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.2*	0.2	12	75	75	44 *	63	133	52	10	0.5	0.4	1
2	0.1	0.3	12	68	73	42	72 *	118	5[illegible]	9.0	0.5	0.4*	2
3	0.1	0.3	16 *	67	71	40	71	114	45	8.2	1.6	[illegible]	3
4	0.1	0.3	13	107 *	68	39	109	92	42	7.0	1.7	[illegible]	4
5	0.1	0.3*	11	185	70	37	91	85 *	43	6.6	0.7	[illegible]	5
6	0.1	0.3	10	171	91	36	87	81	46	5.7	0.6	[illegible]	6
7	0.3	0.2	9.2	378	83	36	143	76	47 *	4.2	0.5	1.0	7
8	0.2	0.1	8.8	185	70	36	150	70	46	2.8	0.6	0.7	8
9	0.3	0.9	8.5	128	68 *	35	238	67	45	2.6	0.5	0.5	9
10	0.7	0.3	8.2	104	63	33	262	64	41	2.1	0.3	0.5	10
11	0.6	5.6	8.6	94	59	35	204	61	39	2.0	0.6	0.5	11
12	0.7	71	15	87	55	55	157	59	38	1.8	1.0	0.5	12
13	0.6	61	15	82	53	74	154	56	37	1.2	0.9	0.3	13
14	0.3	24	12	77	52	54	146	59	35	0.9	0.8	0.3	14
15	0.2	13	11	76	50	51	155	59	34	1.0	1.1	0.3	15
16	0.3	9.1	10	73	49	47	176	61	32	0.8	1.1	0.3	16
17	0.6	6.9	9.9	75	47	46	165	70	29	1.0	0.9	0.3	17
18	0.7	6.2	9.3	83	47	49	170	77	25	0.7	0.9	0.6	18
19	0.2	5.6	11	89 *	46	47	204	74	24	0.7*	0.6	0.8	19
20	0.1	5.7	21	100	47	50	248	73	21	0.7	1.2	0.9	20
21	0.1	5.8	22	89	47	49	252	72	20	0.6	0.5	0.7	21
22	0.4	5.9	19	81	46	48	239	69	19	0.6	0.3	0.8	22
23	0.3	6.5	112	90	46	48 *	205	64	19 *	0.5	0.6	1.0	23
24	0.3	7.1	267 *	258	43	49	190	57	17	0.7	0.5	1.0	24
25	0.5	8.0	161	145	43	47	186	51	17	1.0	0.6	1.0	25
26	0.4	9.7	105	112	42	43	184	45	16	0.6	0.6	0.8	26
27	0.4	12	681	99	44	51	179	45	15	0.8	0.5	0.8	27
28	0.7	10	306	91	47	53	170	45	14	0.6	0.6	0.8	28
29	0.9	8.7	143	84		48	156	47	12	0.5	0.4	0.8*	29
30	0.3	10	101	78		46	141	48	10	0.6	0.6	0.9	30
31	0.2		90	77		46		49		0.9	0.6		31
MEAN	0.4	10.0	72.2	113	57.0	45.6	166	68.8	31.3	2.5	0.7	0.7	MEAN
MAX.	0.9	71.0	681	378	91.0	74.0	262	133	52.0	10.0	1.7	1.0	MAX.
MIN.	0.1	0.1	8.2	67.0	42.0	33.0	63.0	45.0	16.0	0.5	0.3	0.3	MIN
AC. FT	22	595	4440	6938	3164	2805	9852	4233	1842	152	44	39	AC. FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
47.1	1490	8.61	12	27	0210	0.0		10	2	1700	34190

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 08 23	118 48 16	SE35 20S 29E	4600E	10.29	1-31-63	FEB 57-DATE		1957		0.00	LOCAL

Station located at State Highway 190 Bridge, 0.8 mile northeast of Springville. Drainage area is 97.9 square miles. Maximum discharge of record from rating curve extended above 2,470 cfs. Altitude of gage is approximately 990 feet (from U. S. Geological Survey topographic map).

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	[illegible]	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	399	214	[illegible]	[illegible]	[illegible]	160	[illegible]	5.6	86	1
2	[illegible]	0.0	0.0	410	218	[illegible]	[illegible]	[illegible]	16[illegible]	[illegible]	1[illegible]	108	2
3	[illegible]	[illegible]	[illegible]	431	222	[illegible]	[illegible]	[illegible]	160	[illegible]	12	117	3
4	[illegible]	0.0	[illegible]	160	218	[illegible]	[illegible]	[illegible]	160	[illegible]	7.8	120	4
5	0.0	0.0	[illegible]	168	214	[illegible]	[illegible]	[illegible]	160	[illegible]	7.8	120	5
6	0.0	0.0	[illegible]	310	214	[illegible]	[illegible]	[illegible]	160	[illegible]	4.0	127	6
7	0.0	0.0	3.6	179	218	164	[illegible]	[illegible]	56	21	0.8	127	7
8	[illegible]	0.0	[illegible]	394	218	15[illegible]	[illegible]	84	[illegible]	8.3	[illegible]	114	8
9	[illegible]	[illegible]	[illegible]	331	214	15[illegible]	[illegible]	127	[illegible]	1.7	[illegible]	100	9
10	[illegible]	0.0	[illegible]	111	182	56	[illegible]	127	[illegible]	[illegible]	[illegible]	97	10
11	0.0	0.0	0.0	78	190	[illegible]	0.0	136	0.0	3.3	0.0	114	11
12	0.0	0.0	0.0	108	194	0.0	[illegible]	120	[illegible]	4.[illegible]	0.0	127	12
13	0.0	0.0	0.0	66	214	[illegible]	[illegible]	111	[illegible]	1.8	[illegible]	127	13
14	[illegible]	0.0	[illegible]	37	206	[illegible]	[illegible]	111	[illegible]	[illegible]	[illegible]	127	14
15	[illegible]	0.0	[illegible]	47	202	[illegible]	[illegible]	127	[illegible]	[illegible]	[illegible]	127	15
16	0.0	18	0.0	66	198	[illegible]	0.0	133	[illegible]	[illegible]	[illegible]	127	16
17	0.0	14	[illegible]	49	198	[illegible]	44	133	[illegible]	[illegible]	1.3	136	17
18	0.0	0.0	0.0	47	198	[illegible]	108	133	[illegible]	[illegible]	1.9	143	18
19	0.0	0.0	0.0	175	206	[illegible]	108	133	[illegible]	[illegible]	[illegible]	143	19
20	0.0	27	0.0	261	202	[illegible]	108	133	[illegible]	[illegible]	1.1	143	20
21	[illegible]	30	[illegible]	293	206	[illegible]	108	133	[illegible]	[illegible]	[illegible]	147	21
22	[illegible]	45	0.0	312	175	[illegible]	111	133	0.[illegible]	[illegible]	3.4	143	22
23	[illegible]	39	0.0	317	175	[illegible]	124	133	[illegible]	[illegible]	8.6	147	23
24	[illegible]	29	268	331	175	[illegible]	133	133	[illegible]	[illegible]	6.9	147	24
25	0.0	35	405	322	175	[illegible]	133	133	[illegible]	[illegible]	8.6	147	25
26	[illegible]	5	389	302	171	[illegible]	133	133	[illegible]	0.[illegible]	1.9	147	26
27	[illegible]	[illegible]	247	261	117	[illegible]	133	133	[illegible]	[illegible]	[illegible]	147	27
28	[illegible]	[illegible]	270	226	76	[illegible]	133	133	[illegible]	[illegible]	[illegible]	150	28
29	0.0	0.0	274	222		[illegible]	133	133	[illegible]	[illegible]	[illegible]	147	29
30	0.0	0.0	399	219		[illegible]	133	153	0.0	1.9	48	147	30
31	0.0		405	214		[illegible]		160		6.9	78		31
MEAN	0.0	8.1	86.1	214	193	49.8	54.7	1.1	33.9	1.6	6.9	130	MEAN
MAX	0.0	45.0	405	410	222	179	133	162	160	21.0	78.0	150	MAX.
MIN.	0.0	0.0	0.0	37.[illegible]	76.0	[illegible]	[illegible]	0.0	0.0	[illegible]	0.0	86.0	MIN
AC. FT.		480	5297	13180	10731	3065	3257	6185	3015	100	423	7734	AC. FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
72.5											52470

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 40	119 06 22	NW30 21S 27E	5170	8.17	5-19-57	FEB 57-DATE		1957 1959	1959	0.00 -3.48	LOCAL LOCAL

Station located 330 feet above Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	[illegible]	[illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	16	0.0	0.[illegible]	9.7	4.9	[illegible].4	.	23	16	16	[illegible]	[illegible].6	1
2	16	0.0	0.[illegible]	8.4	[illegible]	[illegible]	.	22	16	16	[illegible]	[illegible].6	2
3	15	0.0	0.0	[illegible].8	0.0	7.[illegible]	.	21	16	16	[illegible]	[illegible]	3
4	16	0.0	0.0	12	0.[illegible]	7.[illegible]	.	21	15	17	11	16	4
5	17	0.0	0.0	14	8.6	6.5	.	21	15	16	[illegible]	16	5
6	21	0.0	[illegible]	14	14	6.5	.	22	16	18	[illegible]	16	6
7	27	0.0	5.5	14	13	[illegible].2	.	22	14	[illegible]	9.[illegible]	14	7
8	26	0.0	16	15	13	6.5	.	22	19	21	9.[illegible]	12	8
9	30	0.0	17	14	13	6.2	.	22	19	20	[illegible].3	12	9
10	27	0.0	18	13	14	6.5	.	22	19	21	[illegible]	11	10
11	22	0.0	18	14	14	7.2	.	22	19	21	[illegible]	[illegible]	11
12	17	0.0	18	13	14	[illegible]	.0	22	19	21	11	10	12
13	1.[illegible]	0.[illegible]	18	13	14	1.6	.	22	19	18	[illegible]	8.4	13
14	[illegible].7	0.0	18	13	14	.	.	22	19	12	11	6.[illegible]	14
15	0.4	0.0	18	13	14	.	.	21	19	[illegible]	[illegible]	5.7	15
16	0.3	0.0	18	13	14	.	.	22	18	[illegible]	[illegible]	[illegible].0	16
17	0.2	0.0	20	13	14	.	.	22	[illegible]	10	10	5.[illegible]	17
18	0.1	[illegible].0	21	13	14	[illegible]	.	22	[illegible]	10	[illegible]	[illegible]	18
19	0.0	[illegible].0	21	14	4.3	.	.	22	[illegible]	[illegible]	[illegible]	[illegible]	19
20	0.0	[illegible]	20	14	[illegible]	.	.	22	[illegible]	[illegible]	11	6.0	20
21	0.0	0.0	21	14	[illegible]	.	.	21	16	[illegible]	[illegible]	[illegible]	21
22	0.0	0.0	21	14	0.[illegible]	.	.	21	16	[illegible]	[illegible]	[illegible]	22
23	0.0	0.0	19	15	0.1	.3	.	21	16	[illegible]	[illegible]	12	23
24	0.0	0.0	17	11	[illegible].4	.4	6.8	21	[illegible]	[illegible]	6.	17	24
25	0.0	0.0	20	11	0.0	.	19	22	[illegible]	[illegible]	4.[illegible]	17	25
26	0.0	[illegible]	14	12	[illegible]	.	2	22	[illegible]	[illegible].4	[illegible]	17	26
27	0.0	0.0	12	12	[illegible].4	.	22	[illegible]	[illegible]	8.4	16	17	27
28	0.0	0.0	12	12	[illegible].4	.	23	[illegible]	[illegible]	8.4	16	17	28
29	0.0	0.0	11	13		.	23	16	6	[illegible]	16	[illegible]	29
30	0.0	0.0	12	14		.	23	16	.6	11	16	16	30
31	0.0		12	14		.		16		11	16		31
MEAN	8.2	0.0	13.5	12.8	7.1	2.4	4.6	21.1	17.4	15.6	10.3	11.[illegible]	MEAN
MAX.	30.0	0.0	21.0	15.[illegible]	14.[illegible]	7.[illegible]	23.0	23.[illegible]	[illegible]	[illegible]	14.[illegible]	17.[illegible]	MAX.
MIN.	0.0	0.0	0.0	7.8	[illegible]	.	.	16.	[illegible]	[illegible].6	4.[illegible]	5.[illegible]	MIN.
AC FT.	502		828	787	394	147	271	[illegible]	[illegible]	[illegible]	[illegible]	711	AC FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
[illegible]											[illegible]

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 02 48	118 56 54	NW 4 22S 28E				AUG 42-DATE			OCT 62	0.00	LOCAL
								OCT 62		-2.00	LOCAL

Station located 3.9 miles southeast of Porterville approximately 2,600 feet below head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	148	32	25	0.0	27	23	17	17	20	1
2	0.0	0.0	0.0	148	32	25	0.0	23	22	17	22	20	2
3	0.0	0.0	0.0	104	37	22	0.0	22	24	17	27	20	3
4	0.0	0.0	0.0	82	41	19	0.0	21	25	17	27	19	4
5	0.0	0.0	0.0	104	40	19	0.0	22	28	17	28	19	5
6	0.0	0.0	0.0	117	36	19	0.0	19	30	14	28	19	6
7	0.0	0.0	0.0	148	35	19	0.0	19	28	13	28	19	7
8	0.0	0.0	0.0	185	33	19	0.0	19	28	15	28	19	8
9	0.0	0.0	0.0	130	33	19	0.0	19	28	14	28	18	9
10	0.0	0.0	0.0	83	51	19	0.0	10	28	14	28	17	10
11	0.0	0.0	0.0	75	67	20	0.0	10	29	14	29	16	11
12	0.0	0.0	0.0	66	64	20	0.0	19	29	15	28	16	12
13	0.0	0.0	0.0	57	64	20	0.0	18	29	17	28	15	13
14	0.0	2.9	0.0	51	63	19	0.0	18	29	17	28	14	14
15	0.0	0.0	0.0	52	59	19	0.0	17	23	19	28	14	15
16	0.0	0.0	0.0	52	56	19	0.0	16	17	19	25	13	16
17	0.0	0.0	0.0	51	56	19	0.0	20	14	17	20	12	17
18	0.0	0.0	0.0	54	38	19	0.0	24	16	16	20	19	18
19	0.0	0.0	0.0	98	41	17	0.0	25	19	16	19	19	19
20	0.0	0.0	0.0	130	50	16	1.4	21	19	16	19	19	20
21	0.0	0.0	0.0	127	32	15	24	19	16	16	19	19	31
22	0.0	0.0	0.0	127	31	15	41	18	15	16	19	17	22
23	0.0	0.0	17	129	29	15	42	19	15	16	19	17	23
24	0.0	0.0	86	132	27	8.8	31	21	16	16	19	19	24
25	0.0	0.0	101	81	26	1.1	2.0	24	16	19	20	19	25
26	0.0	0.0	93	47	27	0.1	16	24	16	19	20	19	26
27	0.0	0.0	99	41	29	0.0	35	25	16	18	20	19	27
28	0.0	0.0	134	35	26	0.0	33	24	16	16	20	19	28
29	0.0	0.0	144	32		0.0	32	22	15	16	19	19	29
30	0.0	0.0	148	30		0.0	32	23	16	16	19	19	30
31	0.0		150	29		0.0		23		16	19		31
MEAN	0.0	0.1	31.4	88.5	41.2	14.5	9.6	20.4	21.5	16.3	23.2	17.8	MEAN
MAX.	0.0	2.9	150	185	67.0	25.0	42.0	27.0	30.0	19.0	29.0	20.0	MAX.
MIN.	0.0	0.0	0.0	29.0	26.0	0.0	0.0	10.0	14.0	13.0	17.0	12.0	MIN.
AC. FT.		6	1928	5445	2291	889	574	1252	1279	1002	1424	1057	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
23.7											17150

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE		1957		0.00	LOCAL

Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	[illegible]3784	PORTER [illegible] IT H AT P[illegible]T-RVILL[illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	11	6.9	[illegible]	[illegible]	9.8	[illegible]	[illegible]	[illegible]	[illegible]	1
2	0.0	0.0	0.0	10	9.6	[illegible]	[illegible]	8.8	1.3	11	[illegible]	[illegible]	2
3	0.0	0.0	0.0	9.3	[illegible]	[illegible]	[illegible]	8.8	[illegible]	12	8.4	[illegible]	3
4	0.0	[illegible]	0.0	8.8	[illegible]	[illegible]	[illegible]	9.1	11	11	8.5	[illegible]	4
5	[illegible]	[illegible]	[illegible]	9.8	[illegible]	[illegible]	0.0	8.8	11	12	8.6	3.9	5
6	0.0	[illegible]	[illegible]	9.7	[illegible]	[illegible]	[illegible]	8.4	12	9.9	8.6	[illegible]	6
7	0.0	0.0	0.0	10	7.9	[illegible]	[illegible]	9.1	13	10	8.8	[illegible]	7
8	0.0	0.0	0.0	11	7.4	5.4	[illegible]	9.3	13	8.8	8.6	[illegible]	8
9	0.0	0.0	0.0	[illegible]	[illegible].6	[illegible]	[illegible]	9.8	13	11	7.9	[illegible]	9
10	[illegible]	0.0	0.0	10	8.4	[illegible]	0.0	6.7	13	11	7.[illegible]	[illegible]	10
11	[illegible]	0.0	0.0	11	8.8	11	[illegible]	[illegible]	14	9.4	8.4	[illegible]	11
12	0.0	0.0	0.0	11	8.5	11	[illegible]	[illegible]	14	11	11	[illegible]	12
13	0.0	0.0	0.0	10	8.5	11	[illegible]	[illegible]	13	10	11	[illegible]	13
14	0.0	0.0	0.0	8.9	8.7	11	[illegible]	[illegible]	12	11	8.6	[illegible]	14
15	0.0	0.0	0.0	9.5	8.4	10	[illegible]	[illegible]	11	14	9.2	[illegible]	15
16	0.0	0.0	0.0	9.7	8.2	[illegible]	[illegible]	[illegible]	8.[illegible]	12	11	4.8	16
17	0.0	0.0	0.0	9.[illegible]	8.4	[illegible]	0.0	9.4	6.[illegible]	11	7.2	4.1	17
18	0.0	[illegible]	[illegible]	9.7	8.4	[illegible]	0.0	15	9.4	10	6.3	6.5	18
19	0.0	0.0	0.0	11	8.6	[illegible]	[illegible]	13	12	11	4.6	6.7	19
20	0.0	0.0	0.0	4.6	[illegible]	[illegible]	[illegible]	10	12	9.7	4.[illegible]	6.6	20
21	0.0	0.0	0.0	4.3	8.5	[illegible]	[illegible]	8.8	11	9.3	4.5	5.4	21
22	0.0	0.0	0.0	4.2	7.6	6.3	[illegible]	9.0	8.8	8.8	5.7	3.7	22
23	0.0	0.0	0.0	4.4	9.0	9.0	[illegible]	[illegible].4	8.8	9.6	5.7	1.7	23
24	0.0	0.0	0.0	4.0	9.1	6.0	[illegible]	6.7	1[illegible]	10	5.5	0.0	24
25	0.0	0.0	0.0	3.5	8.3	[illegible]	[illegible]	[illegible]	11	16	4.2	0.[illegible]	25
26	0.0	0.0	0.0	3.1	11	[illegible]	[illegible]	[illegible]	8.5	13	8.0	0.0	26
27	0.0	0.0	0.0	5.1	11	[illegible]	[illegible]	[illegible]	9.6	10	8.3	0.0	27
28	0.0	0.0	4.9	10	10	[illegible]	4.2	[illegible]	8.8	10	8.3	2.7	28
29	0.0	0.0	9.4	10		[illegible]	9.0	0.0	8.2	11	8.3	3.7	29
30	0.0	0.0	10.2	3.8		[illegible]	1[illegible]	[illegible]	9.2	10	8.4	3.9	30
31	0.0		9.6	0.0		[illegible]		[illegible]		5.0	6.5		31
MEAN	0.0	0.0	1.1	7.9	8.6	7.1	[illegible].8	5.5	1[illegible].1	10.6	7.3	2.8	MEAN
MAX.	0.0	0.0	10.0	11.[illegible]	11.[illegible]	11.0	10.[illegible]	15.0	14.[illegible]	16.0	11.0	6.7	MAX.
MIN.	0.0	0.0	0.0	0.[illegible]	6.9	0.[illegible]	0.0	[illegible]	[illegible]	5.0	[illegible]	[illegible]	MIN.
AC. FT.			67	487	480	439	46	337	600	651	448	167	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
R — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
5.1											3722

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 04 06	119 01 06	SE26 21S 27E				JAN 43-DATE		1943		0.00	LOCAL

Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet below head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	C03187	PORTER SLOUGH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	100	20	4.6	.6	8.8	9.8	0.0	4.4	0.0	1
2	0.0	0.0	0.0	101	18	4.6	.4	8.	9.8	0.0	4.7	2.1	2
3	0.0	0.0	0.0	83	21	3.7	.5	[illegible]	[illegible]	0.0	3.5	1.0	3
4	[illegible]	[illegible]	0.	52	22	.9	[illegible]	.6	4.8	[illegible]	4.1	1.0	4
5	0.0	[illegible]	[illegible]	65	21	.5	[illegible]	[illegible]	5.	[illegible]	4.6	2.0	5
6	0.0	0.0	0.0	86	20	.0	[illegible]	[illegible]	7.2	0.0	4.6	4.0	6
7	0.0	0.0	0.0	93	20	3.9	.1	3.0	6.2	[illegible]	4.3	3.2	7
8	0.0	0.0	0.0	114	21	4.7	.3	2.3	5.0	0.0	4.8	4.2	8
9	0.0	0.0	0.0	93	21	2.0	.3	2.2	6.	0.0	5.1	4.0	9
10	[illegible]	0.0	0.0	55	28	.0	.5	1.2	5.0	0.0	5.7	4.3	10
11	0.0	0.0	[illegible]	46	36	0.9	.0	1.1	0.2	[illegible]	0.2	4.3	11
12	0.0	0.0	0.0	37	32	1.4	.0	0.4	6.	[illegible]	4.3	4.6	12
13	0.0	0.0	0.0	32	32	2.6	.0	6.2	6.7	0.0	4.7	3.8	13
14	0.0	0.0	0.0	28	32	.4	.0	8.2	6.0	0.0	5.	2.7	14
15	0.0	0.0	0.0	27	29	0.0	[illegible]	8.3	[illegible]	0.0	5.4	1.1	15
16	0.0	0.0	[illegible]	28	26	0.0	.6	8.0	2.0	0.0	4.6	0.2	16
17	0.0	0.0	0.0	27	26	.0	.0	2.3	0.8	[illegible]	2.8	0.0	17
18	0.0	0.0	0.0	27	22	.0	.0	4.6	0.0	0.0	4.2	0.0	18
19	0.0	0.0	0.0	52	21	.0	.0	2.9	0.0	0.0	4.2	0.0	19
20	0.0	0.0	0.0	92	22	.0	.0	2.3	0.0	0.0	4.0	0.0	20
21	0.0	0.0	0.0	92	19	0.0	0.0	.8	0.0	0.0	4.0	0.0	21
22	0.0	0.0	0.0	92	14	0.0	13	1.3	0.0	0.0	3.8	1.3	22
23	0.0	0.0	0.0	93	10	.0	18	1.8	.0	0.0	3.8	2.6	23
24	0.0	0.0	45	79	8.2	.0	16	4.2	0.0	0.0	3.5	5.2	24
25	0.0	0.0	80	30	7.3	.0	0.0	1.	0.0	0.0	3.2	4.8	25
26	0.0	0.0	80	28	4.6	.0	1.6	10	0.0	0.0	1.5	4.8	26
27	0.0	0.0	78	24	4.2	.0	18	11	0.0	0.0	0.1	5.0	27
28	0.0	0.0	104	20	4.4	0.0	14	11	0.0	0.0	1.0	3.5	28
29	0.0	0.0	104	20		.0	12	9.8	0.0	0.0	2.8	2.6	29
30	0.0	0.0	102	23		.0	10	8.8	0.0	0.0	2.5	2.2	30
31	0.0		104	25		.2		9.1		1.7	0.9		31
MEAN	0.0	0.0	22.5	56.9	20.1	1.0	3.4	5.6	3.3	0.1	3.6	2.6	MEAN
MAX.	0.0	0.0	104	114	36.0	4.6	18.	11.	9.8	1.7	5.7	5.2	MAX.
MIN.	0.0	0.0	0.0	20.0	4.2	0.0	0.0	.8	0.0	0.0	0.1	0.0	MIN.
AC. FT.			1382	3499	1114	60	204	344	194	3	223	154	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
9.9											7178

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 00	119 03 08	NE28 21S 27E	364	5.14	4-3-58	JAN 57-DATE		1957		0.00	LOCAL

Station located at Newcomb Drive Bridge, 2.0 miles west of Porterville. Tributary to Tulare Lake Basin via Tule River. Altitude of gage is approximately 425 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	003965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	6.2	1.5	[illegible]	[illegible]	[illegible]	4.1	5.0	6.7	6.0	1
2	0.0	0.0	0.0	5.6	0.0	[illegible]	.0	[illegible]	4.1	5.5	6.7	[illegible]	2
3	0.0	0.0	0.0	5.2	0.0	[illegible]	[illegible]	[illegible]	4.1	5.0	6.8	[illegible]	3
4	0.0	0.0	0.0	4.8	4.2	[illegible]	[illegible]	3.[illegible]	4.0	4.9	6.8	[illegible]	4
5	0.0	0.0	0.0	4.9	5.0	[illegible]	[illegible]	4.5	4.[illegible]	4.[illegible]	6.8	5.[illegible]	5
6	0.0	0.0	0.0	4.8	5.0	[illegible]	[illegible]	4.6	4.1	5.[illegible]	6.8	5.[illegible]	6
7	0.0	0.0	0.0	5.0	5.0	[illegible]	[illegible]	4.7	4.1	6.8	6.7	4.0	7
8	0.0	0.0	0.0	5.3	5.0	.0	.0	4.6	4.2	6.6	6.5	1.0	8
9	0.0	[illegible]	[illegible]	4.8	5.1	[illegible]	[illegible]	4.6	[illegible]	6.7	6.[illegible]	0.0	9
10	0.0	0.0	0.0	4.4	5.5	[illegible]	[illegible]	4.6	5.[illegible]	6.6	6.5	0.0	10
11	0.0	0.0	0.0	4.5	5.7	[illegible]	[illegible]	4.5	[illegible]	6.6	6.5	0.0	11
12	0.0	0.0	0.0	4.5	5.5	[illegible]	[illegible]	4.5	[illegible]	6.5	6.5	0.0	12
13	0.0	0.0	0.0	4.3	5.5	[illegible]	[illegible]	4.4	5.[illegible]	6.6	6.4	0.0	13
14	0.0	0.0	0.0	4.3	5.5	[illegible]	[illegible]	4.3	5.[illegible]	3.2	6.4	0.0	14
15	[illegible]	0.0	[illegible]	4.4	5.5	[illegible]	[illegible]	4.2	5.[illegible]	0.0	6.3	0.0	15
16	0.0	0.0	3.1	4.4	5.5	[illegible]	[illegible]	4.1	5.[illegible]	0.0	6.3	0.0	16
17	0.0	0.0	4.6	4.[illegible]	5.5	[illegible]	[illegible]	4.1	4.1	[illegible]	6.3	[illegible]	17
18	0.0	0.0	4.7	4.4	5.5	[illegible]	[illegible]	4.2	5.[illegible]	0.[illegible]	6.3	[illegible]	18
19	0.0	0.0	4.8	4.8	5.6	[illegible]	[illegible]	4.2	5.0	[illegible]	6.3	0.0	19
20	[illegible]	0.0	5.0	5.[illegible]	5.6	[illegible]	[illegible]	4.1	[illegible]	[illegible]	6.[illegible]	0.[illegible]	20
21	[illegible]	0.0	5.1	5.[illegible]	2.1	[illegible]	[illegible]	4.1	[illegible]	0.[illegible]	6.3	[illegible]	21
22	0.0	0.0	5.1	5.[illegible]	[illegible]	[illegible]	[illegible]	4.[illegible]	4.8	[illegible]	6.3	1.5	22
23	[illegible]	0.0	5.9	5.[illegible]	[illegible]	[illegible]	[illegible]	3.9	4.[illegible]	[illegible]	6.[illegible]	0.2	23
24	0.0	0.0	7.5	5.[illegible]	[illegible]	[illegible]	[illegible]	4.[illegible]	5.[illegible]	[illegible]	6.1	[illegible]	24
25	0.0	0.0	9.5	4.4	[illegible]	[illegible]	.0	4.[illegible]	4.9	0.0	6.2	0.1	25
26	[illegible]	0.0	8.3	4.3	[illegible]	[illegible]	[illegible]	4.[illegible]	5.[illegible]	[illegible]	6.1	[illegible]	26
27	0.0	[illegible]	7.5	4.2	[illegible]	[illegible]	[illegible]	4.[illegible]	4.[illegible]	3.[illegible]	6.[illegible]	[illegible]	27
28	0.0	0.0	7.7	4.[illegible]	[illegible]	[illegible]	[illegible]	4.[illegible]	[illegible]	6.7	6.[illegible]	0.[illegible]	28
29	0.0	0.0	8.2	4.1		[illegible]	[illegible]	4.[illegible]	5.[illegible]	6.7	6.[illegible]	[illegible]	29
30	0.0	0.0	9.2	4.2		[illegible]	[illegible]	4.1	5.[illegible]	6.7	6.[illegible]	[illegible]	30
31	0.0		8.2	4.2		[illegible]		4.1		6.7	6.[illegible]		31
MEAN	[illegible]	0.0	3.4	4.7	3.[illegible]	[illegible]	[illegible]	3.8	4.8	3.[illegible]	6.4	[illegible]	MEAN
MAX.	[illegible]	[illegible]	9.5	6.2	5.7	[illegible]	[illegible]	4.7	[illegible]	6.8	6.[illegible]	6.[illegible]	MAX.
MIN.	0.[illegible]	0.0	0.0	4.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.[illegible]	[illegible]	6.1	[illegible]	MIN.
AC. FT			207	288	186			233	286	218	391	68	AC. FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
R — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
3.6											1858

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE		1948		0.00	LOCAL

Station located 2.8 miles southeast of Porterville approximately 1,000 feet below head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	68	14	16	0.0	0.0	21	31	91	85	1
2	0.0	0.0	0.0	68	5.7	16	0.0	0.0	20	31	95	83	2
2	0.0	0.0	0.0	56	0.0	19	0.0	0.0	18	31	96	82	2
4	0.0	0.0	0.0	44	0.0	28	0.0	0.0	12	31	95	82	4
5	0.0	0.0	0.0	45	5.1	31	0.0	3.7	8.4	26	98	82	5
6	0.0	0.0	0.0	46	5.3	32	0.0	16	13	20	98	82	6
7	0.0	0.0	0.0	50	2.6	32	0.0	20	30	19	97	28	7
8	0.0	0.0	0.0	54	4.8	34	0.0	19	40	18	97	0.0	8
9	0.0	0.0	0.0	52	7.2	36	0.0	19	43	19	98	0.0	9
10	0.0	0.0	0.0	48	8.2	34	0.0	19	44	19	99	0.0	10
11	0.0	0.0	0.0	47	10	32	0.0	19	43	20	98	0.0	11
12	0.0	0.0	0.0	46	38	30	0.0	19	42	24	96	0.0	12
12	0.0	0.0	0.0	45	51	28	0.0	19	39	22	95	0.0	13
14	0.0	0.0	0.0	44	52	19	0.0	19	36	20	95	0.0	14
15	0.0	0.0	0.0	44	53	19	0.0	19	35	19	94	0.0	15
16	0.0	0.0	0.0	44	54	19	0.0	19	33	19	95	0.0	16
17	0.0	0.0	0.0	44	54	18	0.0	19	21	19	97	0.0	17
18	0.0	0.0	0.0	44	55	18	0.0	19	14	17	98	0.0	18
19	0.0	0.0	0.0	54	55	18	0.0	19	15	19	97	0.0	19
20	0.0	0.0	0.0	57	55	18	0.0	18	15	21	97	0.0	20
21	0.0	0.0	0.0	58	15	18	0.0	15	6.9	23	98	0.0	21
22	0.0	0.0	0.0	42	4.3	17	0.0	13	0.0	24	99	3.6	22
23	0.0	0.0	0.0	42	12	17	0.0	14	4.0	25	98	38	22
24	0.0	0.0	0.0	42	14	9.2	0.0	15	9.9	25	94	55	24
25	0.0	0.0	0.0	23	16	0.0	0.0	16	23	23	94	64	25
26	0.0	0.0	30	12	16	0.0	0.0	16	30	18	92	69	26
27	0.0	0.0	56	12	16	0.0	0.0	16	31	47	91	71	27
28	0.0	0.0	64	11	16	0.0	0.0	18	30	80	90	72	28
29	0.0	0.0	68	12		0.0	0.0	18	30	82	93	68	29
30	0.0	0.0	69	14		0.0	0.0	19	31	85	96	67	30
21	0.0		69	14		0.0		21		87	91		21
MEAN	0.0	0.0	11.5	41.4	22.8	18.0	0.0	15.1	24.6	31.1	95.5	34.4	MEAN
MAX.	0.0	0.0	69.0	68.0	55.0	36.0	0.0	21.0	44.0	87.0	99.0	85.0	MAX.
MIN.	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	18.0	90.0	0.0	MIN.
AC. FT.			706	2543	1268	1107		926	1464	1912	5875	2046	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
24.7											17850

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 03 18	119 00 54	SW36 21S 27E				APR 42-DATE		1942		0.00	LOCAL

Station located 1.0 mile south of Porterville approximately 4,750 feet below head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	11	4.7	0.0	4.4	18	14	21	5.8	6.1	1
2	0.0	0.0	0.0	10	0.0	0.0	3.0	14	8.8	22	5.5	4.8	2
3	0.0	0.0	0.0	12	0.0	0.0	0.0	12	7.7	15	9.1	5.0	3
4	0.0	0.0	0.0	11	0.0	0.0	0.0	12	5.5	14	14	1.7	4
5	0.0	0.0	0.0	11	4.1	0.0	0.0	9.1	5.7	15	11	0.0	5
6	0.0	0.0	0.0	11	9.8	0.0	0.0	6.0	5.7	14	3.6	0.0	6
7	0.0	0.0	0.0	12	9.9	0.0	0.0	4.0	6.2	14	0.0	2.8	7
8	0.0	0.0	0.0	12	9.2	0.0	0.0	4.0	7.7	11	0.0	11	8
9	0.0	0.0	0.0	9.7	8.8	0.0	0.0	4.0	8.7	5.2	0.0	18	9
10	8.4	0.0	0.0	8.8	9.3	0.0	0.0	4.2	18	5.9	3.2	11	10
11	12	0.0	0.0	9.8	9.9	0.0	0.0	4.2	21	12	8.7	5.0	11
12	3.3	0.0	0.0	11	9.7	4.1	0.0	2.6	18	17	9.0	0.0	12
13	0.0	0.0	0.0	11	9.8	6.6	0.0	4.6	15	12	8.3	0.0	13
14	0.0	0.0	0.0	10	9.6	6.2	0.0	6.0	12	8.7	9.1	0.0	14
15	0.0	0.0	0.0	11	9.3	6.1	0.0	2.7	8.3	12	11	0.0	15
16	0.0	0.0	0.0	11	8.7	6.2	0.0	0.0	8.1	14	11	0.0	16
17	0.0	0.0	0.0	11	8.7	6.5	0.0	0.0	8.1	13	11	0.0	17
18	0.0	0.0	0.0	11	8.8	6.9	0.0	0.0	8.1	13	7.6	0.0	18
19	0.0	0.0	0.0	12	9.0	6.8	0.0	0.0	8.1	12	1.0	0.0	19
20	0.0	0.0	0.0	12	7.1	6.9	0.0	0.0	8.1	9.4	0.0	0.0	20
21	0.0	0.0	2.5	12	6.4	7.0	0.0	0.0	10	9.3	0.0	0.0	21
22	0.0	0.0	7.7	12	1.9	8.4	0.0	0.0	13	8.9	0.0	0.0	22
23	0.0	0.0	8.1	12	0.0	9.1	0.0	0.7	14	11	0.0	0.0	23
24	0.0	0.0	9.1	12	0.0	8.1	0.0	4.2	13	9.9	0.5	0.0	24
25	0.0	0.0	9.8	12	0.0	7.5	0.0	5.5	10	8.4	5.9	0.0	25
26	0.0	0.0	8.2	12	0.0	7.0	0.0	5.4	7.3	9.7	7.0	0.0	26
27	0.0	0.0	7.3	11	0.0	6.6	0.0	5.7	6.8	13	6.5	0.0	27
28	0.0	0.0	8.3	9.4	0.0	6.5	1.7	6.1	3.0	15	6.2	0.0	28
29	0.0	0.0	9.3	9.6		6.5	12	10	3.0	16	5.8	0.9	29
30	0.0	0.0	12	9.9		7.2	18	15	8.2	16	7.6	1.3	30
31	0.0		11	9.9		8.0		16		10	9.4		31
MEAN	0.8	0.0	3.0	11.0	5.5	4.5	1.2	5.7	9.7	12.5	5.7	2.3	MEAN
MAX.	12.0	0.0	12.0	12.0	9.9	9.1	18.0	18.0	21.0	22.0	14.0	18.0	MAX.
MIN.	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	3.0	5.2	0.0	0.0	MIN.
AC. FT.	47		185	675	307	274	72	349	577	768	353	134	AC. FT.

E — ESTIMATED
NR — NO RECORD
• — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
R — E AND •

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
5.2											3741

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet below head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	C03940	RHODES-FINE DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	15	7.6	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	16	9.2	0.0	0.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	16	12	0.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	17	13	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	17	12	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	14	11	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	18	15	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	20	15	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	20	13	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	18	9.8	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	15	9.6	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	17	9.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	17	12	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20	17	11	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	18	7.6	0.0	0.0	15
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	18	8.8	0.0	0.0	16
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	16	12	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	16	12	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	14	12	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	14	11	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	11	12	15	11	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	12	12	15	9.8	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	12	11	15	8.7	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	14	9.4	15	5.1	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	17	12	14	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	13	13	9.4	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	15	14	7.2	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	17	15	8.5	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0		0.0	18	11	13	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0		0.0	18	11	10	0.0	0.0	0.0	30
31	0.0		0.0	0.0		0.0		14		0.0	0.0		31
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	4.9	16.7	15.2	8.3	0.0	0.0	MEAN
MAX.	0.0	0.0	0.0	0.0	0.0	0.0	18.0	21.0	20.0	15.0	0.0	0.0	MAX.
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	7.2	0.0	0.0	0.0	MIN.
AC. FT.							292	1028	903	510			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
3.8											2733

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 03 26	119 04 13	SE32 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 3.1 miles southwest of Porterville, approximately 3,100 feet below head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1965	C03948	*OODS-CENTRAL [illegible]TCH NEAR [illegible]RTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	54	0.0	0.0	[illegible]	[illegible]	[illegible]	0.0	181	153	1
2	0.0	0.0	0.0	55	0.0	0.0	[illegible]	[illegible]	[illegible]	0.0	182	155	2
3	0.0	0.0	0.0	47	0.0	0.0	[illegible]	[illegible]	[illegible]	0.0	182	151	3
4	0.0	0.0	0.0	34	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	178	148	4
5	0.0	0.0	0.0	42	0.0	0.0	[illegible]	[illegible]	[illegible]	0.0	174	145	5
6	0.0	0.0	0.0	46	0.0	0.0	[illegible]	[illegible]	[illegible]	0.0	173	142	6
7	0.0	0.0	0.0	45	0.0	[illegible]	[illegible]	[illegible]	[illegible]	98	168	82	7
8	0.0	0.0	0.0	68	0.0	0.0	[illegible]	[illegible]	[illegible]	147	167	0.0	8
9	0.0	0.0	0.0	60	0.0	0.0	[illegible]	[illegible]	[illegible]	157	170	0.0	9
10	0.0	0.0	0.0	45	0.0	0.0	[illegible]	[illegible]	[illegible]	158	172	0.0	10
11	0.0	0.0	0.0	48	0.0	0.0	[illegible]	[illegible]	0.0	157	175	0.0	11
12	0.0	0.0	0.0	51	0.0	0.0	[illegible]	[illegible]	[illegible]	158	173	0.0	12
13	0.0	0.0	0.0	44	0.0	0.0	[illegible]	[illegible]	[illegible]	160	173	0.0	13
14	0.0	0.0	0.0	38	0.0	0.0	[illegible]	[illegible]	[illegible]	173	168	0.0	14
15	0.0	0.0	0.0	39	0.0	0.0	[illegible]	[illegible]	[illegible]	175	165	0.0	15
16	0.0	0.0	0.0	41	0.0	0.0	[illegible]	[illegible]	[illegible]	171	168	[illegible]	16
17	0.0	0.0	0.0	37	0.0	0.0	0.0	[illegible]	0.0	170	173	0.0	17
18	0.0	0.0	0.0	37	0.0	0.0	[illegible]	[illegible]	[illegible]	170	169	[illegible]	18
19	0.0	0.0	0.0	60	0.0	0.0	[illegible]	[illegible]	[illegible]	175	169	0.0	19
20	0.0	0.0	0.0	68	0.0	0.0	[illegible]	[illegible]	[illegible]	174	171	0.0	20
21	0.0	0.0	0.0	65	0.0	0.0	[illegible]	[illegible]	[illegible]	172	169	0.0	21
22	0.0	0.0	0.0	57	0.0	0.0	[illegible]	[illegible]	[illegible]	173	163	[illegible]	22
23	0.0	0.0	0.0	55	0.0	0.0	[illegible]	[illegible]	[illegible]	169	164	0.0	23
24	0.0	0.0	0.0	55	0.0	0.0	[illegible]	[illegible]	[illegible]	168	167	[illegible]	24
25	0.0	0.0	0.0	32	0.0	0.0	[illegible]	[illegible]	[illegible]	160	164	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	162	161	[illegible]	26
27	0.0	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	169	155	0.0	27
28	0.0	0.0	37	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	175	155	[illegible]	28
29	0.0	0.0	57	0.0		0.0	[illegible]	[illegible]	[illegible]	178	153	0.0	29
30	0.0	0.0	54	0.0		0.0	[illegible]	[illegible]	[illegible]	179	149	0.0	30
31	0.0		54	0.0		0.0		[illegible]		180	148		31
MEAN	0.0	0.0	6.5	39.5	0.0	0.0	[illegible]	[illegible]	[illegible]	133	168	32.5	MEAN
MAX	0.0	0.0	57.0	68.0	0.0	0.0	0.0	[illegible]	[illegible]	180	182	155	MAX.
MIN	0.0	0.0	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]	148	[illegible]	MIN.
AC. FT.			401	2426						8188	10312	1936	AC.FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
32.1											23260

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet below head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(Runoff of Deer Creek at Terra Bella Irrigation District)
October 1, 1960 through September 30, 1965

WATER YEAR	MONTHLY RUNOFF IN ACRE-FEET												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
1961	0	830	1147	997	1029	1399	1203	679	271	0	0	0	7555
1962	14	751	665	1357	3840	3050	2789	1608	679	27	0	0	14780
1963	170	567	831	1247	4488	2118	4300	3511	1770	619	54	104	19779
1964	715	1658	1398	1334	1423	2520	3044	2522	1306	193	0	0	16113
1965	97	1354	3546	4840	2959	2861	7096	3912	2297	1135	418	402	30917

Location--Lat. 35° 56' 36", Long. 118° 49' 36", in SE¼ Sec. 10, T. 23 S., R. 29 E. on left bank approx. 1 mile upstream from the mouth of Pothole Creek on Deer Creek.
Drainage area--86 sq. mi.
Records available--October 1919, to date. Discharge record from October 1919 to September 1960, is published in the Department of Water Resources Bulletin No. 23-61.
Cooperation--Data is furnished by the Terra Bella Irrigation District.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	C0515	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	124	202	236	582	569	805	603	886	1089	1572	1179	1026	1
2	131	202	266	578	570	755	604	891	1120	1535	1254	1035	2
3	119	185	292	583	567	724	614	985	1117	1490	1357	1001	3
4	126	186	281	619	567	768	620	1079	1119	1509	1368	927	4
5	131	182	259	609	577	789	602	1088	1125	1585	1312	939	5
6	143	167	260	585	586	814	597	1067	1169	1631	1298	940	6
7	139	175	252	617	579	845	595	966	1223	1715	1298	933	7
8	150	181	253	593	563	885	623	944	1256	1747	1288	885	8
9	151	186	247	585	550	926	622	996	1283	1736	1323	872	9
10	151	223	303	578	557	956	649	997	1298	1696	1324	868	10
11	203	254	258	582	550	859	653	1001	1318	1659	1370	811	11
12	185	328	265	578	545	567	646	1002	1346	1616	1291	823	12
13	150	427	286	570	543	601	648	964	1428	1595	1272	855	13
14	142	326	250	559	547	681	655	900	1515	1593	1293	864	14
15	139	253	249	531	570	680	657	879	1565	1592	1299	872	15
16	137	263	252	538	588	646	675	932	1614	1564	1335	871	16
17	137	264	246	563	605	602	670	959	1688	1545	1346	854	17
18	133	260	244	563	653	560	670	1047	1695	1547	1366	813	18
19	131	228	251	596	655	552	669	1059	1665	1582	1359	779	19
20	131	242	287	611	686	535	669	1061	1644	1622	1283	779	20
21	120	251	333	573	750	545	670	1085	1636	1635	1203	801	21
22	128	248	342	566	756	558	665	1049	1611	1614	1193	851	22
23	123	252	417	569	775	577	657	1008	1622	1530	1176	912	23
24	130	253	565	629	803	586	657	991	1625	1493	1100	914	24
25	132	252	573	602	827	577	637	976	1631	1496	1044	918	25
26	130	247	571	587	848	581	641	1007	1583	1547	1055	917	26
27	132	256	865	580	869	580	694	997	1597	1544	1046	912	27
28	130	257	770	585	848	582	747	979	1595	1504	1009	892	28
29	168	252	668	592		583	858	995	1595	1465	982	879	29
30	208	187	610	568		566	897	1042	1583	1338	1019	674	30
31	209		584	570		579		1080		1222	1021		31
MEAN	144	240	372	582	647	673	662	997	1444	1565	1228	881	MEAN
MAX.	209	427	865	629	869	956	897	1088	1695	1747	1370	1035	MAX.
MIN.	119	167	236	531	543	535	595	879	1089	1222	982	674	MIN
AC. FT.	8852	14259	22879	35784	35907	41383	39399	61313	85934	96236	75497	52397	AC. FT.

E — ESTIMATED
NR — NO RECORD
• — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
R — E AND •

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
787											569800

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
35 26 9	118 56 8	SW 2 29S 28E	36000	14.2	11-19-50	93-DATE					

Also known as "Kern River at First Point". Station located 5 miles northeast of Bakersfield. Tabulated discharge is the computed regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Land Company. Drainage area is 2,420 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1965	C07120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10		10.8 **											10
11													11
12													12
13													13
14													14
15					STATION INSTALLED 11-10-64								15
16					INSUFFICIENT DATA TO PUBLISH DAILY FLOWS								16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN													MIN.
AC. FT.													AC FT

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# – E AND *
** – RESULT OF DISCHARGE MEASUREMENT

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OF GAGE	REF. DATUM
35 12 21	119 24 35	NW28 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL

Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).

TABLE B-6

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

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

Stream	Tributary to	Location	Date	Gage Height (feet)	Discharge (cfs)
Ash Slough nr. Chowchilla (at S.F. RR) (a)	San Joaquin River via Eastside Bypass	SW¼, Sec. 18, T 9S, R17E	12-23-64	5.58	2782
			1- 7-65	4.53	2414
Ash Slough Above Eastside Bypass	San Joaquin River via Eastside Bypass	SE¼, Sec. 22, T10S, R14E	4-12-65	(b)2.31	647
			4-13-65	(b)2.68	414
			4-14-65	(b)2.68	435
Bear Creek below Eastside Canal (c)	San Joaquin River via Eastside Bypass	NW¼, Sec. 12, T 8S, R11E	4-14-65	87.38	549
Berenda Slough at Avenue 18	San Joaquin River via Eastside Bypass	SW¼, Sec. 34, T10S, R15E	4-12-65	(d)	18.5
			4-13-65		21.5
Berenda Slough at Santa Fe RR Bridge (a)	San Joaquin River via Eastside Bypass	SW¼, Sec. 18, T 9S, R17E	1- 7-65	6.07	1431
Fresno River at Road 16	San Joaquin River via Eastside Bypass	NE¼, Sec. 19, T11S, R16E	4-12-65	(d)	635
			4-13-65		427
Mariposa Bypass near Crane Ranch (c)	San Joaquin River	NW¼, Sec. 31, T 8S, R11E	12-29-64		1196
			1- 8-65		1613
			4-15-65		532
Owens Creek below Eastside Canal (c)	San Joaquin River via Eastside Bypass	SW¼, Sec. 19, T 8S, R12E	4-14-65	87.39	422
San Joaquin River below Sand Slough (c)		SW¼, Sec. 30, T 9S, R13E	1- 8-65		674
			4-12-65		343
			4-13-65	101.36	286
			4-14-65	100.81	247
San Joaquin River to Eastside Bypass through Parshall Flume	San Joaquin River via Eastside Bypass	SE¼, Sec. 30, T 9S, R13E	1- 6-65	(d)	78.6
			4-14-65		193

a Recorder installation.
b Measuring point to water surface.
c Staff gage only.
d No gage.

TABLE B-7

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge)
October 1964 through September 1965

WATER USER	MILE AND BANK *	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE-FEET												TOTAL DIVERSION OCT-SEPT. ACRE-FEET
			OCT.	NOV	DEC.	JAN	FEB	MAR	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--DURHAM FERRY BRIDGE--	76.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.7														
Moresco Brothers (a)	78.9 R	1-14 1-24	255							864	275	663	918	160	3135
Cruze, Trudel and Gillmeister	79.4 R	1-20	45				1			48	50	38	36		218
--STANISLAUS RIVER--	79.7 R														
Faith Ranch	79.8 R	1-16	100							173	135	142	150	157	857
W. C. Blewett Estate	80.7 L	1-12						229		82	124	359	232	192	1218
W. C. Blewett Estate	81.8 L	2-12 1-14	586				798	140	141	950	741	2670	956	1450	8432
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	81.85														
Blewett Mutual Water Company	81.95L	1-10 2-12 b 1-14	172					589		1340	1160	1240	1410	858	6769
El Solyo Water District	82.0 L	1-10 1-16 3-18	416					1680	1180	2180	2470	3200	3420	1490	16040
--GAGING STATION - SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING--	82.65														
El Solyo Ranch	82.9 L	1-16	33	2							83	79	198	76	471
El Solyo Ranch	83.5 L	1-12	22							67	90	38	74	18	309
El Solyo Ranch	83.7 L	1-12	22							40	290	196	292	153	993
Faith Ranch	84.4 R	1-16 1-20	342						607	453	598	790	934	782	4506
--TUOLUMNE RIVER--	91.0 R														
--GAGING STATION - SAN JOAQUIN RIVER AT WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8 L														
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8 L														
West Stanislaus Irrigation District	91.8 L	1-12 1-24 6-26	1560		428		1430	9670	4550	12900	15120	13220	9880	5540	74300
Fred Lara #1 **	(0.6S)	1-14					22		148	180	207	328	80	155	1120
Frank Sarmento #1 **	(0.7N)	3-16	354						333	97	967	895	755	369	3770
Frank Sarmento #2 **	(1.1N)	1-14 1-16	52					172	157	74	1150	713	758	288	3364
Fred Lara #2 **	(2.2S)	1-16	16				8			34	33	26	6	2	125
Frank Sarmento #3 **	(2.3N)	2-16					244		259	248	460	414	332	204	2161
J. V. Steenstrup Estate	93.1 R	1-12 1-14						211		225	503	698	986	257	c 2880
T. C. Daily	94.1 L	1- 3 1- 6						51			89	128	50		318
Rancho Dos Rios	94.7 R	1-12	107				17	109	24	206	221	295	299	172	1450
E. L. Brazil	95.5 R	1-16	36			1		245	77	104	119	144	204	186	1116
--GAGING STATION - SAN JOAQUIN RIVER AT GRAYSON--	95.95L														
Island Dairy	96.0 L	1-18					140	260		380	442	583	478	322	2605
--LAIRD SLOUGH BRIDGE--	96.05														
Rancho El Pescadero	98.9 L	1-18	2				207	47	87	206	483	381	387	148	1948
--GAGING STATION - SAN JOAQUIN RIVER AT PATTERSON BRIDGE--	104.4 L														
Patterson Water District	104.4 L	1-14 2-18 3-20 1-36						2930	926	7980	8650	7840	8170	4250	40750
Chase Brothers	104.5 R	1-18	185					267	74	560	578	514	472	418	3068
--PATTERSON BRIDGE--	104.6														
Chase Brothers	106.5 R	1-12	72					634		140	502	501	711	505	3065
Tony Spinelli	109.1 R	1-12								34	75	52	43	50	254
Twin Oaks Irrigation Company	109.8 L	1-12 2-16 1-18	290					888	464	2180	2470	2180	2460	1830	c 12760
T. J. Henderson	110.8 R	2- 8	217									1			218
L. A. Thompson	112.55R	1-18						95	65	455	256	437	248	332	1888

TABLE B-7 (Cont.)

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge)
October 1964 through September 1965

WATER USER	MILE AND BANK *	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
L. A. Thompson	112.55R	1-18						95	61	455	216	437	248	332	1888
Dan Lemas (d)	113.4 R	1-12	127					90	66	190	161	180	159	165	1138
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	113.4														
Dan Lemas (d)	114.63R	e 1- 8						24		80	25	68	60	32	259
Arnold and Ben Soura (f)	114.75R	2-10	43				18	147	104	273	278	303	281	242	1689
--DRESTIMBA CREEK--	115.2 L														
Roy F. Crow	115.8 L	1-10						34		183	159	181	162	133	852
L. B. Crow	116.05L	1-14	52				35	35	20	192	142	193	176	88	933
John W. Greer (g)	116.15R	1- 8								72	24	83	56	53	288
John W. Greer	116.5 R	1-12	31							276	132	182	173	153	947
Stevinson Water District	121.3 R	1-18	142				43	108	89	241	248	223	239	170	1503
--MERCED RIVER SLOUGH--	122.2 R														
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7														
--MERCED RIVER--	123.75R														
Stevinson Corporation	129.1 R	1-16	212				121	40	3	279	217	301	316	234	1723
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
VERNALIS TO FREMONT FORD BRIDGE															
Total			5491	2	428	1	3084	18700	9374	33960	39730	40480	36560	21630	209400
Average cubic feet per second			89	0	7	0	56	304	158	552	668	658	595	364	289
Monthly use in percent of seasonal			2.6	0	0.2	0	1.5	8.9	4.5	16.2	19.0	19.3	17.5	10.3	

* Mileage along San Joaquin River from its mouth 4.5 miles below Antioch.

** West Stanislaus Irrigation District Canal. The intake canal joins the San Joaquin River at mile 91.8L. Distance from San Joaquin River and bank on which diversion is located are shown in parentheses.

a Formerly listed as Cook Land and Cattle Company.

b The 14-inch unit was installed in 1965.

c Includes an undetermined amount of water returned to river by spill.

d Formerly listed as Frank C. Mosier.

e A 4-inch unit was removed in 1965.

f Formerly listed as Manuel A. Serpa.

g Installed prior to 1965. Not previously listed.

TABLE B-7 (Cont.)

DIVERSIONS - SAN JOAQUIN RIVER
(Fremont Ford Bridge to Gravelly Ford)
October 1964 through September 1965

WATER USER	MILE AND BANK *	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE-FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.0														
San Luis Canal Company (a)	186.6 L	Gravity	7993	3733	2114		5393	13952	11047	22119	25150	26670	25890	16374	160435
--FIREBAUGH BRIDGE--	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--	206.2														
--MENDOTA DAM--	208.63														
Central California Irrigation District (a)	208.8 L	Gravity	22933	9596	518		19224	53761	25973	70320	67036	77521	69026	40529	c 456437
--FRESNO SLOUGH--	ð 209.0 L														
--DELTA-MENDOTA CANAL--	(0.2L)														
Firebaugh Canal Company (a)	ð (0.4L)		1704	63	304		5584	3586	3709	12762	11367	14265	14029	5661	73034
M. Jenson (b)			13												13
M. L. Dudley (b)	ð (3.4L)						274	457	315	347	480	462	448	20	2803
State of California Mendota Waterfowl Management (b)	ð (6.45-8.20)		4602	2210	1131			79	188	212	2261	3164	1751	3299	18897
Fresno Slough Water District (b)	ð (9.20-10.50)						946	335	48	103	518	460	444	202	3056
--JAMES BYPASS--	ð (11.80R)														
Traction Water District (b)	ðð (0.75)		563	56			262	940	543	1123	992	964	883	823	7149
Reclamation District 1606 (b)	ðð (1.50)						69	12		186	135	169	129	2	702
James Irrigation District (b)	ðð (4.4)		117				7105	4453	1317	4578	8495	8833	8858	1303	45059
Tranquillity Irrigation District (b)	ð (12.00-13.75)		230				6353	1815	758	1601	4941	5088	4360	992	26138
Melvin D. Hughes (b)	ð (12.20)						30				16	30	14		90
--LONE WILLOW SLOUGH--	219.8 R														
Columbia Canal Company (a)	219.8 R		3289	1367	571		3435	4070	4919	7942	8515	8862	8690	6337	57997
State Center Land Company (b)		d 1- 6		220	38						123	111	77	32	601
C. Sawall (b)		e 1- 8						NO DIVERSION							
Mendota Duck Club (b)		f 1- 8	28												28
M. Beck (b)		g 1- 8						NO DIVERSION							
Mario Giomi (Jennings Ranch) (b)										50	91	101			242
F. A. Yearout (b)			16	44	36										96
Tulle Gun Club (b)		h 1- 8	14												14
Westlands Water District (b)			762	1169			2386	1684	1182	2346	2444	3747	3461	1690	20871
Grasslands (b)			22556	2176										2777	27509
F. J. Oil Company (b)														2	2
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83														
--GRAVELLY FORD CANAL--	232.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			64820	20634	4712	0	51061	85144	49999	123689	132564	150447	138060	80043	901173
Average cubic feet per second			1054	347	77	0	919	1385	840	2012	2228	2447	2245	1345	1245
Monthly use in percent of seasonal			7.2	2.3	0.5	0	5.7	9.5	5.5	13.7	14.7	16.7	15.3	8.9	

* Mileage along San Joaquin River from its mouth 4.5 miles below Antioch.

ð Plant is located on Fresno Slough which diverts from San Joaquin River at mile 209.0L. Distance from San Joaquin River and bank on which diversion is located are shown in parentheses.

ðð Plant is located on James Bypass which diverts from Fresno Slough at mile ð (11.80R). Distance from Fresno Slough and bank on which diversion is located are shown in parentheses.

a Records furnished by Contracting Entities.
b Records furnished by U. S. Bureau of Reclamation.
c Includes Class I water.
d Pump located on arm of slough, at SW corner S. 12, T. 14 S., R. 15 E.
e Pump located on arm of slough, 1500 feet W. of SE corner, S. 18, T. 14 S., R. 16 E. (Discontinued)
f Pump located on arm of slough, at S. ¼ corner, S. 11, T. 14 S., R. 15 E.
g Pump located on arm of slough, 1400 feet S. of NE corner, S. 24, T. 14 S., R. 15 E.
h Pump located on arm of slough, adjacent to M. Beck.

TABLE [illegible]

DIVERSIONS - SAN JOAQUIN RIVER
(Gravelly Ford to Friant Dam)
October 1964 through September [illegible]

WATER USER	MILE AND BANK *	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE-FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT.	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
Carl H. Hobe (a)	233.[illegible]3R	2- 6	1[illegible]					4	2[illegible]	232	2[illegible]	1[illegible]	2[illegible]	[illegible]	[illegible]
--SKAGGS BRIDGE--	238.1[illegible]														
--U. S. HIGHWAY 99 BRIDGE--	247.3[illegible]														
--SANTA FE RAILROAD BRIDGE--	249.23														
Miller Brothers	2[illegible]1.46L	1- 6	[illegible]2					[illegible]	34	[illegible]	6[illegible]	[illegible]	6[illegible]	[illegible]	[illegible]4
Sycamore Island Stock Ranch 2	256.52R	1- [illegible]	3							1[illegible]	[illegible]	[illegible]		4	23[illegible]
Oscar Spano River Ranch 1	257.1[illegible]L	1-16	[illegible]9	[illegible]				[illegible]3	[illegible]4	1[illegible]4	169	1[illegible]	[illegible]	1[illegible]	[illegible]
Oscar Spano River Ranch 2	257.70L	1-12	[illegible]9					4[illegible]	17	[illegible]	44	149	142	[illegible]	[illegible]4
L. D. Cobb	258.08R	1- 6 1- 7					[illegible]	[illegible]8		9	118	164	121	1[illegible]	4[illegible]
--STATE HIGHWAY 41 BRIDGE--	258.33														
R. J. Curtis 2	258.39L	b 1- 7										[illegible]8	42	4[illegible]	14[illegible]
W. E. Roberts 2	258.90L	1-12	49	[illegible]	1	2	3		[illegible]	[illegible]3	[illegible]6	[illegible]9	98	[illegible]	4[illegible]1
J. E. Cobb	259.39R	2- 6	2				29	9		4	40	61	73	16	234
--OLD LANES BRIDGE--	259.78														
J. E. Cobb 3	260.40R	1- 6	[illegible]1					24	[illegible]1	115	124	133	115	[illegible]	[illegible]1
R. C. Arnold	261.53R	1- 4 1- 5	17				[illegible]	17	8	38	92	142	134	[illegible]	[illegible]
Duane M. Folsom	261.70L	1- 6	66					4	6	[illegible]	66	92	94	4[illegible]	4[illegible]
E. G. Rank, Jr.	262.32L	1- 5	4					16	13	28	40	[illegible]5	64	26	24[illegible]
Dale McCoon 1	262.60R	1- 5						44			14	30	32	1	12[illegible]
W. H. Rohde	262.66L	1- 7	3					1[illegible]	5	16	32	51	7[illegible]	2[illegible]	22[illegible]
Dale McCoon 2	263.40R	1- 7						51			19	26	32	2	13[illegible]
Dale McCoon 3	263.48R	1- 6						20							2[illegible]
H. K. Jensen	263.76R	1- 5	46						3	88	66	64	[illegible]6	46	4[illegible]1
H. W. Ball 4	264.08L	1- 6	13				4	16	25	83	[illegible]6	6	2[illegible]	2[illegible]	2[illegible]
Ike D. Ball	264.60R	1- 6	83				16	[illegible]0	42	111	114	108	118	92	[illegible]4
W. F. Ball	264.83L	1- 4 1- 5	26					15	2[illegible]	43	[illegible]4	51	47	32	288
Virgil Durando	267.56L	1- 8	4	4	[illegible]	[illegible]	18	22	7	43	134	233	2[illegible]9	6[illegible]	753
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L														
--FRIANT BRIDGE--	268.88														
--COTTONWOOD CREEK--	269.53R														
--FRIANT DAM--	269.63														
GRAVELLY FORD TO FRIANT DAM															
Total			545	10	[illegible]	9	82	539	369	12[illegible]2	1619	2025	2180	1[illegible]42	9626
Average cubic feet per second			8.9	0.2	0.1	0.1	1.5	8.8	6.2	2[illegible]	27	33	35	18	13
Monthly use in percent of seasonal			5.7	0.1	0.1	0.1	0.9	5.6	3.8	12.5	16.8	21.0	22.6	10.8	

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

a Installed prior to 196[illegible], not previously listed.
b A 4-inch unit was abandoned in 1965.

TABLE B-7 (Cont.)

DIVERSIONS - STANISLAUS RIVER
October 1964 through September 1965

WATER USER	MILE AND BANK above mouth	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE-FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
Moresco Brothers (a)	1.9 R	1-16								32	39	100	97	98	366
C. C. Angyal	2.4 R	1-18	14					166		147	211	264	215	171	b 1188
Faith Ranch	3.4 L	2-12 1-16	302						258	459	434	451	577	384	2865
Reclamation District 2064	4.0 R	1-14 1-16 2-20	794				113	828	430	1780	1660	2140	2140	1560	11440
Reclamation District 2075	4.05R	2-16 1-20	392	518			111	721	222	2190	1860	2250	2480	1690	12430
D. F. Koetitz	4.7 L	c 1-20	165							224	158	335	318	160	1360
E. T. Mape	4.75L	d 1-20	210												210
Henry Pelucca	5.5 L	e 1-16								162	115	138	153	80	648
Alice Gill	6.4 L	f 1-14	234							95	275	337	260	209	b 1410
D. J. Macedo	8.4 R	1-16	32						125	392	249	433	478	361	2070
N. E. Cannon	8.7 R	1-10	82				1	90	88	260	245	340	227	185	1518
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH	9.35L														
D. F. Koetitz	9.4 L	1-12	259						194	259	277	325	312	194	1820
John L. Hertle	9.8 L	1-10	1							15	8	32	19	2	77
Nelson Santos	10.0 R	1-16								7	15	94		36	152
Nelson Santos	10.5 R	1-16								78	49	273		120	520
--GAGING STATION - STANISLAUS RIVER AT RIPON--	15.7 L														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7														
--U. S. HIGHWAY 99 BRIDGE--	15.7														
A. Girardi	17.7 L	1-16								8	295	277	151		b 731
E. J. Freethy	19.0 R	1-14	29							60	102	135	142	85	553
Libby, McNeill and Libby	20.9 R	1-14	55						91	320	261	345	179	108	1359
Heath Ranch	21.2 L	1- 6	17					54		68	32	59			230
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.6														
--SANTA FE RAILROAD BRIDGE--	33.4														
--GAGING STATION-STANISLAUS RIVER AT RIVERBANK--	33.6														
Oakdale Irrigation District (g) (Crawford pump)	37.7 L	1-14							11	98	134	202	81	8	b 534
Oakdale Irrigation District (g) (Brady pump)	39.1 L	1-12	41							55	157	177	16	74	b 520
--OAKDALE-STOCKTON HIGHWAY BRIDGE--	41.2														
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	41.2														
--GAGING STATION-STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0														
STANISLAUS RIVER															
Total			2630	518	0	0	225	1860	1420	6710	6580	8710	7840	5520	42000
Average cubic feet per second			43	9	0	0	4	30	24	109	111	142	128	93	58
Monthly use in percent of seasonal			6.3	1.2	0	0	0.5	4.4	3.4	16.0	15.7	20.7	18.7	13.1	

a Formerly listed as Cook Land and Cattle Company and C. M. Carroll.
b Includes an undetermined amount of water returned to river by spill.
c Replaces a 14-inch unit. A 20-inch unit was a temporary installation during 1965.
d Replaces a 20-inch unit.
e Replaces a 16-inch unit.
f Replaces a 12-inch unit.
g Oakdale Irrigation District for season of 1965 maintained plants at Miles 37.7L and 39.1L to supplement district gravity supply.

TABLE B-7 (Cont.)

DIVERSIONS - TUOLUMNE RIVER
October 1964 through September 196[illegible]

WATER USER	MILE AND BANK above mouth	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT.	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG.	SEPT	
E. T. Mape	1.3 R	2-14	143	5	13		198	343	92	435	436	504	724	272	3165
J. V. Staanstrup Estate	1.9 L	2-12	35					44	50	615	492	501	352	29	2118
J. V. Staanstrup Estate	2.9 L	1-10 1-12	95	1		1		47	116	294	294	440	415	46	1749
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY (SHILOH BRIDGE)--	3.35														
Bancroft Fruit Farms	5.0 R	1-10	16		1		1	30	8	44	48	65	50	42	305
Della Battestin	5.9 L	1-16						NO DIVERSION							
Western Farms	6.3 L	1-16	51					91		88		110	130	76	546
Eugene Boone, Galen Hartwich, and Dr. Harold Willis	7.1 R	1-10								60	65	60	72	21	278
Beth Wootten	8.4 R	1-10		2				29	34	31	91	62	123	54	426
James A. McCleaky (a)	9.4 L	1-20	10			1		30	5	108	117	144	77		492
McClure Ranches	9.7 R	b 1-16										219	43		262
Homer Coachman	10.2 R	1-14	48				1	37	17	167	196	99	180	136	881
--CARPENTER ROAD BRIDGE--	12.9														
--U. S. HIGHWAY 99 FREEWAY BRIDGE--	15.55														
--SEVENTH STREET BRIDGE--	15.75														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8														
--U. S. HIGHWAY 99 BRIDGE--	16.05														
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.05														
--DRY CREEK--	16.5 R														
--EAST MODESTO BRIDGE--	19.3														
Jack Gardella	20.3 R	1-10	8					9	7	39	25	32	23	20	163
--SANTA FE RAILROAD BRIDGE--	21.6														
--SANTA FE ROAD BRIDGE--	21.65														
--GEER AVENUE BRIDGE--	26.0														
Michel Investment Company	28.8 R	1- 8	7					29	13	62	65	72	86	25	359
J. W. and Lola Mae Short	29.8 L	1-10								37	57	36	20	29	c 179
Firpo Ranch	30.2 L	1-10	13					1		64	52	72	53	[illegible]	312
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5														
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.55														
Iva M. Ketcham	39.4 R	1- 8	31						9	71	141	112	129	95	588
Westley N. Sawyer	39.8 L	1- 8	21						10	88	93	94	78	57	441
--GAGING STATION - TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE--	39.9														
Westley N. Sawyer	40.8 L	1-14	8						8	78	69	117	74	50	404
Curtner Zanker	45.7 L	1-10		1		1	1	1	1	59	40	42	59	23	228
Dolling Brothers	46.3 R	1- 8	57							123	95	105	125	61	566
--STATE HIGHWAY 132 BRIDGE--	47.4														
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5														
TUOLUMNE RIVER															
Total			543	9	14	3	2[illegible]1	691	3[illegible]	2463	2376	2886	2813	1093	134[illegible]
Average cubic feet per second			9	0	0	0	3	11	6	4[illegible]	40	47	46	18	19
Monthly use in percent of seasonal			4.0	0.1	0.1	0	1.[illegible]	5.1	2.8	18.3	17.[illegible]	21.4	20.9	8.1	

a Formerly listed as A. C. Watkins Estate.
b Replaces a 12-inch unit.

c Includes an undetermined amount of water returned to river by spill.

TABLE B-7 (Cont.)

DIVERSIONS - DRY CREEK
October 1964 through September 1965

WATER USER	MILE AND BANK above mouth	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE-FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--MODESTO-EMPIRE TRACTION COMPANY RAILROAD BRIDGE--	0.7														
--STATE HIGHWAY 132 BRIDGE (YOSEMITE BOULEVARD)--	0.8														
--LA LOMA BRIDGE--	1.2														
--EL VISTA AVENUE BRIDGE--	2.9														
--GAGING STATION - DRY CREEK NEAR MODESTO--	5.3 R														
--CLAUS ROAD BRIDGE--	5.4														
--SANTA FE RAILROAD BRIDGE--	6.4														
--CHURCH STREET BRIDGE--	7.2														
--WELLSFORD ROAD BRIDGE--	8.7														
--ALBERS ROAD BRIDGE--	11.0														
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1														
Edward Johnson	12.6 R	1- 6	13							11	30	48	47	30	179
Edward Johnson	12.7 R	1- 6	5							26	65	54	41	29	220
Joe Fagundes	14.7 R	1-10	55		4		10	17	40	151	120	179	178	129	883
--OAKDALE-WATERFORD HIGHWAY BRIDGE--	17.4														
DRY CREEK															
Total			73	0	4	0	10	17	40	188	215	281	266	188	1282
Average cubic feet per second			1.2	0	0.1	0	0.2	0.3	0.7	3.1	3.6	4.6	4.3	3.2	1.8
Monthly use in percent of seasonal			5.7	0	0.3	0	0.8	1.3	3.1	14.7	16.8	21.9	20.7	14.7	

TABLE [illegible] (Cont.)

DIVERSIONS - MERCED RIVER
[illegible] 1964 [illegible] September 19[illegible]

WATER USER	MILE AND BANK above mouth	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
--HILLS FERRY BRIDGE--	1.[illegible]														
Stevinson Water District #1	[illegible] R	[illegible]-1[illegible]					13	[illegible]	[illegible]	242	46	42	[illegible]	[illegible]	[illegible]
Stevinson Water District #2	3.8 R	[illegible]-1[illegible]	204	[illegible]	4	4	64	412	21	[illegible]	[illegible]	3[illegible]2	[illegible]	[illegible]	3181
Milton Gordon	4.3 L	1-10	3[illegible]	4	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]1	2	[illegible]	[illegible]4
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6														
Maria DeAngelis	[illegible].8 L	1-12	[illegible]					[illegible]	2[illegible]	43	[illegible]	[illegible]1	8	4	[illegible]2
Stevinson Water District	6.1 L	1-2[illegible]	136	2	2	2		[illegible]	[illegible]	437	496	[illegible]	384	176	2[illegible]84
Stevinson Water District #3	7.7 L	1-20	[illegible]26				169	[illegible]92	[illegible]	14[illegible]	[illegible]21	[illegible]	248	4[illegible]	2222
Manuel Clementino	8.5 L	1-12	36					19	2	[illegible]1	43	46	1[illegible]	17	262
Manuel Clementino	8.9 L	1-12	66					[illegible]	[illegible]	141	[illegible]	[illegible]	[illegible]	88	[illegible]
Samuel B. McCullagh	9.4 L	[illegible]- 8						[illegible]			[illegible]	26	49	[illegible]9	416
Mrs. J. R. Jacinto	9.6 L	[illegible]-12	47					[illegible]	[illegible]	[illegible]2	[illegible]	84	[illegible]1	[illegible]	[illegible]
Mrs. J. B. Silva, E. and J. Gallo Winery Ranch, L. Alves and A. Mattos	10.35L	[illegible]	111	233	5		4	[illegible]	[illegible]	42	292	3[illegible]9	[illegible]4	6	[illegible]
Manuel Freitas	10.9 L	1-12	56					[illegible]	19	64	[illegible]	[illegible]	16	[illegible]	[illegible]
R. E. Prusso and John Vierra	10.9 L	1-[illegible] 1-12	66					2[illegible]	[illegible]	[illegible]2	99	122	[illegible]6	[illegible]4	6[illegible]2
E. and J. Gallo Winery Ranch	11.6 L	1-1[illegible]		[illegible]	[illegible]	[illegible]		[illegible]4	9	169	[illegible]	369	324		1844
--MILLIKEN BRIDGE--	11.65														
E. and J. Gallo Winery Ranch	12.35L	1-1[illegible]						PLANT	REMOVED						
Anthony L. Calderia	12.5 R	1-12	36					1	[illegible]	1[illegible]	[illegible]	61	64	4[illegible]	2[illegible]
E. and J. Gallo Winery Ranch	12.85L	1-12		68	2			16	12	61	2[illegible]	198	89		2[illegible]6
[illegible]. M. Souza	14.[illegible] L	1-1[illegible]	13					1[illegible]		28	64	[illegible]	[illegible]1	26	296
--GAGING STATION - MERCED RIVER NEAR LIVINGSTON--	16.49														
E. and J. Gallo Winery Ranch	16.5 L	1-14		42		93			17	[illegible]	[illegible]	119	[illegible]		[illegible]
J. E. Gallo	[illegible].4 L	[illegible]	[illegible]	[illegible]4				4[illegible]	[illegible]	6[illegible]	23	16[illegible]	[illegible]	4	[illegible]29
--U. S. HIGHWAY 99 BRIDGE--	21.04														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.[illegible]														
Gallo Cattle Company	22.2 R	1-[illegible] 1-16	.66	[illegible]	4		4	[illegible]4	1[illegible]	3[illegible]	3[illegible]6	[illegible]	2[illegible]	1[illegible]	2[illegible]4
Gallo Cattle Company	22.8 R	1-12 1-1[illegible]	[illegible]4	6				12[illegible]		222	2[illegible]	2[illegible]	124		1146
Merced River Farms Association	26.3 R	1- 8	[illegible]							62	[illegible]4	64	62		264
--SANTA FE RAILROAD BRIDGE--	27.05														
W. C. Magneson	27.5 R	1-1[illegible]	[illegible]					11		3	42	[illegible]1	48	[illegible]	2[illegible]4
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.55														
--CRESSEY BRIDGE--	27.5[illegible]														
Manuel Silva	29.9 [illegible]	1- 6 1-1[illegible]	47							[illegible]	[illegible]	4[illegible]	4[illegible]	4[illegible]	[illegible]
Manuel Silva	3[illegible].9 R	1-12	42							9	[illegible]	[illegible]	[illegible]	6	4[illegible]
Rancho Con Valor	31.1 L	1- 8	59					[illegible]	1	1[illegible]	[illegible]	14	1[illegible]	[illegible]2	[illegible]
Manuel Silva	31.4 R	1-10	72							26	42	11[illegible]	[illegible]	[illegible]	[illegible]62
P. Hilarides	32.2 L	1-12	69								[illegible]	[illegible]9	[illegible]		161
--SHAFFER BRIDGE--	32.[illegible]														
Harry P. Schmidt and Sons	33.[illegible] R	1-1[illegible]	3							[illegible]	[illegible]	[illegible]	42	[illegible]	2[illegible]
W. F. Bettencourt, P. Hilarides and Cowel Lime and Cement Co.	36.[illegible] L	Gravity	[illegible]	111				1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Amsterdam Orchards Incorporated	39.1 L	.-14				4	61	[illegible]		[illegible]		[illegible]4	[illegible]		[illegible]
[illegible]tzlaff Brothers	4[illegible].2 L	[illegible]- 2 [illegible]- 4	[illegible]							4	4	[illegible]	4	[illegible]	2.[illegible]
--COX FERRY BRIDGE--	42.1														
Cowell Ditch	45.3 R	Gravity	4[illegible]	[illegible]	[illegible]	[illegible]	2[illegible]2		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2[illegible]1	[illegible]
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2														
MERCED RIVER															
Total			2[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2[illegible]2	[illegible]4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]4	[illegible]
Average cubic feet per second			[illegible]4	[illegible]4	[illegible]	6	[illegible]	[illegible]4	[illegible]	[illegible]4	[illegible]	[illegible]	[illegible]4	[illegible]4	
Monthly use in percent of seasonal			[illegible]4.	[illegible]	[illegible]2.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

a Includes an undetermined amount of water returned [illegible]

TABLE B-7 (Cont.)

DIVERSIONS - TULE RIVER[a]
October 1964 through September 1965

WATER USER	MILE AND BANK *	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--SUCCESS DAM--	0.0														
--GAGING STATION - TULE RIVER BELOW SUCCESS DAM--	0.35														
Campbell Moreland Ditch	2.4 L	Gravity	502		828	787	394	147	271	1299	1035	835	673	711	7482
--PORTER SLOUGH--	2.4 R														
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	** (2.4)														
--PIONEER SPILL--	** (3.7R)														
Porter Slough Ditch	** (4.5R)	Gravity			67	487	480	439	46	337	600	651	448	167	3722
--GAGING STATION - PORTER SLOUGH NEAR PORTERVILLE (NEWCOMB ROAD)--	** (6.1)														
Vandalia Ditch	3.1 L	Gravity			207	288	186			233	286	218	391	88	b 1897
--SANTA FE RAILROAD BRIDGE--	5.1														
Poplar Ditch	5.8 L	Gravity			706	2543	1268	1107		926	1464	1912	5875	2046	17850
--MAIN STREET BRIDGE--	5.9														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0														
Hubbs-Miner Ditch	6.4 R	Gravity	47		185	675	307	274	72	349	577	768	353	134	3741
--STATE HIGHWAY 65 BRIDGE	6.6														
Rhodes-Fine Ditch	8.4 L	Gravity							292	1028	903	510			2733
--OLIVE AVENUE BRIDGE--	9.9														
--FRIANT-KERN CANAL CROSSING--	10.5														
Woods-Central Ditch	11.0 L	Gravity			401	2426						8188	10310	1936	23260
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.8														
--OTTLE BRIDGE--	14.4														
TULE RIVER															
Total			549	0	2394	7206	2635	1967	681	4172	4865	13080	18050	5082	60680
Average cubic feet per second			9	0	39	117	47	32	11	68	82	213	294	85	84
Monthly use in percent of seasonal			0.9	0	3.9	11.9	4.3	3.2	1.1	6.9	8.0	21.6	29.8	8.4	

* Mileage downstream from Success Dam.
** Figure in parentheses indicates distance along Porter Slough from Tule River.

a Records furnished by the Tule River Association and reviewed by the Department of Water Resources.
b The greater portion of this water was used to recharge Vandalia Irrigation District well fields.

TABLE B-8

DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS*
October 1964 through September 1965

WATER USER	DIVERSION													ACREAGE IRRIGATED	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL	RICE
Friant-Kern Canal				San Joaquin River											
Total acre-feet diverted	25785	4593	629	68973	241076	212412	76244	184318	204765	210407	199781	152009	1581792		
Average cubic feet per second	419	77	10	1122	4355	3455	1281	2998	3441	3422	3249	2555	2185		
Monthly use in percent of seasonal	1.6	0.3	0.0	4.4	15.3	13.4	4.8	11.7	13.0	13.3	12.6	9.6			
Madera Canal															
Total acre-feet diverted	92	89	18	875	3953	31907	13836	37952	56369	7241[illegible]	63073	372[illegible]	317834		
Average cubic feet per second	1	1	0	14	71	519	233	617	947	1178	1026	626	439		
Monthly use in percent of seasonal	0	0	0	0.3	1.3	10.0	4.4	11.9	17.7	22.8	19.9	11.7			
Merced Irrigation District				Merced River											
Main Canal	0	0	0	0	0	27525	41298	108884	106601	107482	90957	68343	a 551090	b 105763	5318
Northside Canal	50	61	81	0	0	1194	668	4312	4201	4491	4239	3483	22780		
Total acre-feet diverted	50	61	81	[illegible]	0	28719	41966	113196	110802	111973	95196	71826	5 3870		
Average cubic feet per second	1	1	1	[illegible]	0	467	705	1841	1862	1821	1548	1207	793		
Monthly use in percent of seasonal	0	0	0	0	0	5.0	7.3	19.8	19.3	19.5	16.6	12.5			
Turlock Irrigation District				Tuolumne River											
Total acre-feet diverted	35570	9530	4900	828	649	65710	49670	106600	104300	97050	90760	87450	c 653017	d 172347	[illegible]
Average cubic feet per second	578	160	80	13	12	1069	835	1734	1753	1578	1476	1470	902		
Monthly use in percent of seasonal	5.4	1.5	0.7	0.1	0.1	[illegible]	7.6	16.3	16.0	14.9	13.9	13.4			
Modesto Irrigation District															
Total acre-feet diverted	25278	257	256	108	819	36414	41503	63410	63028	55008	43333	36334	e 365748	f 73985	441
Average cubic feet per second	411	4	4	2	15	588	697	1031	1059	895	705	591	505		
Monthly use in percent of seasonal	6.9	0.1	0.1	0	0.2	10.0	11.4	17.3	17.2	15.0	11.9	9.9			
Waterford Irrigation District															
Total acre-feet diverted	2164	0	0	0	0	2161	2161	7428	7560	7648	5915	5027	g 40064		
Average cubic feet per second	35	0	0	0	0	35	36	121	127	124	96	84	55	h 7152	[illegible]
Monthly use in percent of seasonal	5.4	0	0	0	0	5.4	5.4	18.5	18.9	19.1	14.8	12.5			
Oakdale Irrigation District				Stanislaus River											
Northside Canal	6811	0	0	0	24	2922	3554	22138	22927	22552	20870	18311	120109	i 20006	3139
Southside Canal	10201	0	0	0	0	4062	6812	33483	33063	32466	30906	27282	178275	j 34118	436
Total acre-feet diverted	17012	0	0	0	24	6984	10366	55621	55990	55018	51776	45593	298384	k 54124	k 3575
Average cubic feet per second	277	0	0	0	0	114	174	905	941	895	842	766	412		
Monthly use in percent of seasonal	5.7	0	0	0	0	2.3	3.5	18.6	18.8	18.4	17.4	15.3			
South San Joaquin Irrigation District															
Total acre-feet diverted	7285	0	0	0	9207	14839	23450	48227	44123	48506	38893	33678	268208	m 64332	265
Average cubic feet per second	118	0	0	0	166	241	394	784	742	789	633	566	370		
Monthly use in percent of seasonal	2.7	0	0	0	3.4	5.5	8.7	18.0	16.5	18.1	14.5	12.6			

* Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation, all other data furnished by individual irrigation districts.
a An additional 80,302 acre-feet of water was pumped from wells.
b Of this acreage, 2,543 were double cropped.
c An additional 157,504 acre-feet of water was pumped from wells.
d Of this acreage, 20,307 were double cropped.
e An additional 43,840 acre-feet of water was pumped from wells.
f Of this acreage, 8,778 were double cropped.
g An additional 833 acre-feet of water was pumped from wells.
h Of this acreage, 129 were double cropped.
i Of this acreage, 130 were double cropped.
j Of this acreage, 479 were double cropped.
k This acreage also received 34,134 acre-feet of water from wells and controlled drainage.
m This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 3,770 were double cropped. Includes 1,353 acres served by subirrigation.

TABLE B-9

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS*
October 1964 through September 1965

WATER USER	MILE POST FROM CANAL HEAD FROM	TO	MONTHLY DELIVERIES IN ACRE-FEET OCT.	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL
							Delta-Mendota Canal								
State of California (South Bay Aqueduct)	3.54		2469	1479	109	0	31	192	206	2012	3683	5682	7510	7032	30405
Plain View Water District	4.22	20.60	400	43	4	1	13	1039	709	3043	3324	3497	3093	1596	16762
West Side Irrigation District	14.78		15	1	0	0	0	0	0	908	575	799	689	73	3060
Banta-Carbona Irrigation District	20.42		10	0	0	0	0	690	0	2106	1624	1923	1553	105	8011
Hospital Water District	18.05	30.96	1085	226	59	0	258	2262	853	3936	4850	4776	4479	2288	25072
West Stanislaus Irrigation District	31.31		0	0	0	0	0	591	0	65	997	6818	5529	0	14000
Kern Canon Water District	31.31	35.18	460	57	0	0	44	558	356	1120	1387	1589	1296	507	7374
Del Puerto Water District	35.73	42.51	348	113	12	0	41	1403	180	1441	2894	2368	2146	1142	12088
Patterson Water District	42.51		197	0	0	0	61	555	284	557	915	530	600	406	4105
Salado Water District	42.10	46.83	148	62	0	0	36	1049	549	1354	2195	2281	1337	716	9727
Sunflower Water District	44.23	52.02	140	113	26	0	36	1285	902	1698	1994	2284	1792	380	10650
Orestimba Water District	46.83	51.41	50	0	0	0	0	665	2110	1757	1543	3260	1601	283	11269
Foothill Water District	51.65	57.46	327	0	0	0	26	715	332	1209	1629	1647	1676	1072	8633
Davis Water District	53.60	56.82	91	44	0	0	32	352	18	712	553	685	361	324	3172
Mustang Water District	56.80	62.67	156	0	0	0	169	766	289	1028	718	1432	1229	319	6106
Quinto Water District	64.32	67.55	261	0	0	0	0	737	83	713	609	1040	847	423	4713
Romero Water District	66.70	68.03	233	0	0	0	11	287	2	52	221	61	216	72	1155
San Luis Water District	69.21	90.53	2694	1910	634	104	4956	8884	3798	7372	10223	12482	8718	2420	64195
Grassland Water District	70.00		10636	2788	0	0	0	0	870	727	863	912	292	675	17763
Central California Irrigation District	60.65	76.05	1881	0	0	0	36	3120	455	8140	10754	11570	11169	6932	54057
Sam Hamburg Farms	90.53		3	1	1	2	1	3	2	3	5	3	5	3	32
Panoche Water District	93.25	96.70	1785	2790	1162	55	8665	7992	1608	6018	7828	11555	10311	1951	61720
Eagle Field Water District	93.27	94.57	88	30	30	0	623	431	106	407	540	718	905	264	4142
Oro Loma Water District	95.50	96.62	0	0	0	0	0	1	143	1377	1079	1195	1196	277	5268
West Side Golf Association	95.95		9	3	2	2	0	3	8	19	24	24	24	15	133
Mercy Springs Water District	97.70	99.82	122	0	0	0	0	286	213	1395	1162	1456	1236	348	6218
Widren Water District	102.03		0	0	0	0	0	46	27	415	372	367	409	65	1701
Broadview Water District	102.95		0	0	0	0	1748	5387	402	1586	3102	4056	2727	303	19311
McNamara Corporation of California	16.24		8	1	0	0	0	1	2	2	0	3	4	1	22
San Luis Water District (Temporary M. & I.)	69.21	47.48	14	1	0	0	1	6	4	22	27	42	52	59	228
Western Contracting Corporation	38.15	60.06	45	6	1	0	1	4	6	21	34	89	111	63	381
Wunderlich Corporation	6.95	16.25	0	0	0	0	0	0	0	0	1	11	17	21	50
Gallagher and Burke	10.50		0	0	0	0	0	0	0	2	3	1	0	0	6
T. Tiechert and Sons	20.96		0	0	0	0	0	0	0	0	0	0	14	14	28
Peter Kiewit and Sons	31.18	64.30	0	0	0	0	0	0	0	0	0	12	11	21	44
Morrison-Knudsen	8.01		5	0	0	0	0	0	0	0	0	0	0	0	5
McNamara-Mannix	68.03		89	63	41	0	6	0	0	0	0	0	0	0	199
U. S. Bureau of Reclamation Contractors	69.21	93.25	319	130	162	333	27	51	88	214	281	271	291	365	2232
Total			24088	9861	2243	197	16822	39361	14605	51431	66009	85439	73446	30535	414037
Net Deliveries DMC to Mendota Pool			73985	24914	4336	1928	62991	91043	54883	135299	142401	165614	151549	85755	994698
								Millerton Lake							
Fresno County Water District #18			8	0	2	1	2	3	5	16	16	21	18	12	104
Ralston Associates			1	0	1	1	0	1	1	2	4	3	1	2	17
Total			9	0	3	2	2	4	6	18	20	24	19	14	121
								Madera Canal							
Madera Irrigation District	6.10	32.2	0	0	0	875	1652	18312	8957	20864	31236	41957	34727	18240	176820
Adobe Ranch	20.6		92	89	18	0	0	0	0	0	0	0	0	0	199
Chowchilla Water District	35.9		0	0	0	0	2301	13595	4879	17088	25133	30453	28346	19020	140815
Total			92	89	18	875	3953	31907	13836	37952	56369	72410	63073	37260	317834

TABLE B-9 (Cont.)

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS*
October 1964 through September 1965

WATER USER	MILE POST FROM CANAL HEAD		MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	FROM	TO	OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
							Friant-Kern Canal								
Garfield Water District	7.53		200	9	0	0	294	60	39	611	498	563	422	242	293[illegible]
Dog Creek Water District	14.8		0	0	0	0	0	0	0	0	0	0	0	6	6
International Water District	14.9		34	0	0	0	0	0	0	121	164	208	193	134	854
Round Mountain Water District	20.85	21.33	8	0	0	0	0	0	0	0	15	3[illegible]	33	31	122
Round Mountain Ranch	20.22		0	0	0	0	0	0	0	0	9	4	3	4	20
Trimmer Springs Water District	27.56		0	0	0	0	0	0	0	0	0	0	0	21	21
Consolidated Irrigation District	28.50		0	0	0	12994	29667	14995	2501	15500	0	0	0	30042	105679
Last Chance Water Ditch Company	28.50		0	0	0	0	188	1813	0	0	0	0	0	0	2001
Laguna Irrigation District	28.50		0	0	0	0	1200	3800	0	0	0	0	0	0	5000
Corcoran Irrigation District	28.50		0	0	0	4838	8595	567	0	0	0	0	0	0	140[illegible]
Stratford Irrigation District	28.50		0	0	0	597	780	373	0	0	0	0	0	0	175[illegible]
Tulare Lake Basin Water Storage District	28.50	95.64	0	0	0	5[illegible]32	9406	1912	0	0	0	0	0	0	1635[illegible]
Alta Irrigation District	28.50		0	0	0	2860	10715	4325	0	0	0	0	0	0	17900
Fresno Irrigation District	28.50		0	0	0	0	10001	15198	14831	13473	0	19615	32883	0	106001
Murphy Slough Association	28.50		0	0	0	2424	3487	1089	0	0	0	0	0	0	7[illegible]00
Riverdale Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	6
Kings River Water Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	[illegible]
Empire Westside Irrigation District	28.50		0	0	0	2483	4846	1171	0	0	0	0	0	0	8500
Kings County Water District	28.50	71.29	0	0	0	6284	17249	5967	0	2882	7619	0	0	0	40001
Orange Cove Irrigation District	35.87	53.31	2182	38	0	0	0	476	137	4233	5070	6746	6530	3846	29258
City of Orange Cove	43.44		22	2	0	0	0	8	15	32	34	48	42	34	237
Stone Corral Irrigation District	56.90	64.40	428	4	0	0	16	746	38	869	1388	1694	1753	879	7[illegible]81
Ivanhoe Irrigation District	65.04	68.13	1236	476	0	0	0	682	323	1819	1815	2751	2882	2610	14[illegible]94
Tulare Irrigation District	68.14	71.29	0	0	0	0	17548	31195	17820	35108	37042	27329	27676	23302	217020
Lakeside Irrigation Water District	69.42		0	0	0	2430	8595	559	0	1500	2202	0	0	0	15286
Kaweah-Delta Water Conservation District	69.08	71.29	0	0	0	13823	28919	12258	0	1000	0	0	0	0	56000
Exeter Irrigation District	72.52	79.24	1131	105	0	0	327	1557	549	4661	4663	4834	4116	2565	24[illegible]
Lindsay-Strathmore Irrigation District	85.56		3104	139	0	0	313	686	238	3842	4209	4889	4768	3844	a 26032
Lindmore Irrigation District	86.17	91.12	3189	242	0	0	1876	4048	1[illegible]43	7095	8735	10011	8721	5679	5[illegible]639
Porterville Irrigation District	93.93	98.62	694	0	0	[illegible]10	1281	2273	1067	2967	3235	3792	3574	2692	22085
Lower Tule Irrigation District	95.67	98.62	0	0	0	5869	31895	39926	22689	39204	46424	43119	38446	37585	305157
Tea Pot Dome	99.35		468	17	0	0	30	109	48	615	698	829	817	593	4224
Saucelito Irrigation District	98.62	107.37	990	119	0	111	3846	6337	1674	5389	92[illegible]	1[illegible]29	8271	4179	5[illegible]202
Cloar Community Service District	101.60		0	0	0	0	18	0	[illegible]0	12	18	14	7	6	[illegible]
Terra Bella Irrigation District	102.65		1503	44	0	0	0	173	135	1944	2218	2854	2777	1851	13499
Pixley Irrigation District	102.69		0	0	0	1105	5544	3851	7[illegible]1	4[illegible]1	8045	2523	1446	4913	32859
Delano-Earlimart Irrigation District	109.48	118.45	4600	1002	0	218	10495	24264	6782	18139	293[illegible]2	31869	23945	11360	162[illegible]26
Southern San Joaquin Municipal Utility District	117.44	127.97	4058	734	0	0	6145	19647	3729	1336[illegible]	22362	26412	2231[illegible]	10513	129[illegible]
Rag Gulch Water District	117.96		0	0	0	0	952	851	1[illegible]6	12[illegible]8	121[illegible]	[illegible]	0	619	[illegible]
Shafter-Wasco Irrigation District	134.42	137.17	1938	841	252	0	22[illegible]3	[illegible]797	1619	4[illegible]28	8483	[illegible]239	8166	4479	[illegible]12
Pacific Gas & Electric Company	150.83		0	821	3[illegible]7	0	[illegible]	0	[illegible]0	0	0	[illegible]	0	0	198
Rosedale Rio Bravo Water Storage District	151.0		0	0	0	1861	5974	968	[illegible]0	0	0	[illegible]	0	0	9803
Buena Vista Water Storage District	151.80		[illegible]	[illegible]	0	[illegible]534	19391	2[illegible]31	[illegible]	0	[illegible]	[illegible]	0	0	27656
Total			2578[illegible]	4[illegible]93	[illegible]	[illegible]973	241[illegible]76	212412	[illegible]244	[illegible]84318	20476[illegible]	[illegible]21[illegible]4[illegible]7	199[illegible]81	[illegible]	[illegible]. 92

* Data furnished by the U. S. Bureau of Reclamation.
a Includes water transported from Wutchumna Ditch.
Note: Deliveries include operational spill.

TABLE 8-10

IMPORTS AND EXPORTS
October 1964 through September 1965

WATER USER	OCT.	NOV.	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
					Imports from Delta								
Delta-Mendota Canal													
Total acre-feet	129581	37411	0	10483	83263	131996	67262	188012	209251	253806	221551	108581	1441197
Average cubic feet per second	2107	629	0	170	1499	2147	1130	3058	3517	4128	3603	1825	
Monthly use in percent of seasonal	9.0	2.6	0	0.7	5.8	9.2	4.7	13.0	14.5	17.6	15.4	7.5	
					Exports from Tuolumne River								
City and County of San Francisco													
Total acre-feet	16155	15747	16298	9682	6295	13043	14358	14542	14150	18720	15548	14959	169497
Average cubic feet per second	263	265	265	157	113	212	241	237	238	304	253	251	234
Monthly use in percent of seasonal	9.5	9.3	9.6	5.7	3.7	7.7	8.5	8.6	8.4	11.0	9.2	8.8	

(Summary of exports from Tuolumne River)[a]
October 18, 1934[b] through September 30, 1965

WATER YEAR	MONTHLY DIVERSION IN ACRE - FEET[c]												TOTAL
	OCT.	NOV.	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT	
1935	1618	4234	4354	4220	3966	5442	4500	4160	4499	4195	851	0	42039
1936	2111	2061	2437	4546	4025	6474	5619	2577	5460	6367	6401	5687	53765
1937	4434	1945	3240	942	631	194	685	655	548	551	717	709	15251
1938	724	703	178	197	390	0	0	0	0	0	11	99	2302
1939	0	0	108	0	583	4188	5081	6639	6345	6540	6412	6177	42073
1940	5463	1414	4316	5742	4999	2852	1375	0	383	522	2004	3230	32300
1941	2197	463	208	3332	2642	2942	2829	2696	0	0	0	0	17309
1942	0	0	3898	2987	2756	3046	2927	2016	0	0	0	0	17630
1943	0	0	331	2590	1698	1900	1856	5326	5559	5380	288	0	24928
1944	0	0	736	4748	5504	5893	5835	421	0	1562	6062	5849	36610
1945	6062	3512	1894	2907	2893	6049	5871	6044	5799	5967	5038	4849	56885
1946	4932	4792	5024	4727	2728	4506	5749	5881	2937	5908	5827	5780	58791
1947	5931	5672	5760	5906	5316	5912	5711	5905	5710	5880	5893	5700	69296
1948	5888	5685	5858	5857	5460	5854	5650	5825	5600	5785	5817	5637	68916
1949	5838	5647	5844	5830	5250	5830	5642	5795	5590	5811	5829	4853	67759
1950	5480	5671	5831	5854	5301	5861	5610	5063	4105	5643	6782	8516	68717
1951	7883	6194	8075	8752	7905	8752	7249	7487	5652	5798	5880	5807	85434
1952	4987	5737	7357	4725	2156	2338	7232	8165	8344	6834	2662	0	60537
1953	807	2732	3420	3361	3747	9391	13601	13298	8488	12374	10035	8224	89478
1954	4135	2568	4698	4770	7233	11470	11759	13204	11085	11419	8746	8212	99299
1955	8433	7993	8181	8389	6089	6687	13208	14904	14009	11276	11216	10946	121331
1956	11480	10049	6422	2432	1612	2367	6627	10615	11436	10983	9551	8956	92530
1957	5531	4704	5076	7070	9994	11951	11563	11959	11621	12887	12918	12534	117808
1958	5692	7186	8230	8158	3346	2869	3150	6905	6834	7061	7060	7020	73511
1959	7210	5440	5231	7551	10512	14326	14317	15046	14625	15220	15314	14890	139682
1960	15413	14851	15257	15004	13889	14732	14801	15066	14717	13957	15180	14684	177551
1961	8335	13482	12656	12663	12296	14838	14424	15157	14868	15400	15247	14705	164071
1962	15122	14555	15156	15136	11207	15162	14586	15021	14606	15158	15146	14666	175521
1963	11476	8045	8279	9366	6724	13868	12307	12179	13555	15066	12875	9892	133632
1964	10255	7476	3457	12319	13961	15981	15324	16121	15560	16185	16236	15713	158588
1965	16155	15747	16298	9682	6295	13043	14358	14542	14150	18720	15548	14959	169497

a This data was furnished by the City and County of San Francisco.
b October 18, 1934, was the beginning of pipeline operations.
c Water which was diverted through the Hetch Hetchy Aqueduct by the City and County of San Francisco.

TABLE B-11

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
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15						DRY							15
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26													26
27													27
28													28
29													29
30													30
31													31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00	USCGS

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 180 feet. U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	807885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.30	2.19	2.04	1.86	2.00	2.03	2.12	2.12	2.10	2.35	2.20	2.22	1
2	2.30	2.19	2.04	1.83	2.00	2.03	2.06	2.12	2.13	2.35	2.20	2.23	2
3	2.30	2.16	2.04	1.84	1.98	2.01	1.97	2.14	2.16	2.35	2.22	2.23	3
4	2.30	2.11	2.04	1.87	1.98	2.01	1.96	2.20	2.15	2.35	2.32	2.23	4
5	2.31	2.11	2.04	1.90	2.00	2.00	1.96	2.25	2.16	2.35	2.37	2.22	5
6	2.31	2.11	2.04	2.01	2.06	2.00	1.96	2.25	2.16	2.35	2.37	2.23	6
7	2.32	2.12	2.05	2.34	2.03	2.00	2.01	2.25	2.17	2.39	2.51	2.23	7
8	2.32	2.13	2.06	2.14	1.97	2.00	1.93	2.25	2.18	2.43	2.61	2.24	8
9	2.32	2.14	2.07	2.07	1.95	2.00	1.85	2.24	2.25	2.56	2.63	2.27	9
10	2.32	2.15	2.07	2.03	1.94	2.04	2.02	2.24	2.28	2.69	2.66	2.25	10
11	2.31	2.14	2.07	2.01	1.94	2.10	2.05	2.24	2.29	2.68	2.63	2.24	11
12	2.31	2.15	2.07	1.98	1.93	2.13	1.91	2.24	2.32	2.68	2.52	2.23	12
13	2.32	2.15	2.07	1.96	1.93	2.11	1.92	2.24	2.33	2.67	2.48	2.23	13
14	2.32	2.15	2.07	1.95	1.94	1.99	1.91	2.24	2.33	2.67	2.47	2.23	14
15	2.31	2.15	2.07	1.99	1.94	1.98	1.85	2.24	2.34	2.67	2.47	2.23	15
16	2.28	2.11	2.07	2.02	1.92	1.98	1.82	2.24	2.33	2.67	2.47	2.23	16
17	2.28	2.06	2.07	2.01	1.92	1.98	1.80	2.24	2.33	2.67	2.47	2.22	17
18	2.28	2.07	2.07	2.01	1.99	1.98	1.79	2.24	2.33	2.66	2.47	2.22	18
19	2.25	2.07	2.08	2.02	2.15	1.98	1.77	2.24	2.34	2.66	2.47	2.22	19
20	2.23	2.07	2.08	2.06	2.17	1.97	1.76	2.24	2.35	2.66	2.47	2.22	20
21	2.23	2.07	2.07	2.02	2.17	1.97	1.76	2.24	2.34	2.53	2.48	2.20	21
22	2.23	2.07	2.08	1.99	2.18	1.98	1.76	2.24	2.35	2.39	2.48	2.18	22
23	2.23	2.07	2.10	1.99	2.18	2.04	1.75	2.24	2.35	2.39	2.46	2.20	23
24	2.23	2.07	2.10	2.12	2.09	2.13	1.73	2.23	2.35	2.39	2.42	2.16	24
25	2.23	2.08	2.11	2.04	2.00	2.13	1.73	2.20	2.35	2.33	2.39	2.13	25
26	2.23	2.09	2.12	2.00	2.00	2.13	1.72	2.16	2.35	2.26	2.39	2.13	26
27	2.23	2.07	2.18	2.00	2.02	2.15	1.82	2.15	2.35	2.26	2.33	2.08	27
28	2.28	2.07	2.04	2.00	2.03	2.16	2.07	2.10	2.35	2.22	2.28	2.05	28
29	2.26	2.07	1.84	2.00		2.12	2.07	2.10	2.34	2.20	2.28	2.05	29
30	2.24	2.05	1.82	2.02		2.08	2.10	2.10	2.35	2.20	2.28	2.04	30
31	2.20		1.87	2.00		2.09		2.10		2.20	2.25		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT 07-DATE		1938	---	294.00	USGS

Station located 1 mile downstream from Friant Dam. Flow regulated by Millerton Lake. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B64200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	NR	NR	NR	71.55	70.37	69.87	70.62	70.38	NR	NR	NR	NR	1
2	NR	NR	NR	71.10	70.31	69.80	70.62	70.32	NR	NR	NR	NR	2
3	NR	NR	NR	71.72	70.25	69.75	70.63	70.31	NR	NR	NR	NR	3
4	NR	NR	NR	72.10	70.19	69.71	70.42	70.30	NR	NR	NR	NR	4
5	NR	NR	NR	72.78	70.33	69.70	70.35	70.27	NR	NR	NR	NR	5
6	NR	NR	NR	76.23	71.03	69.69	70.71	70.24	NR	NR	NR	NR	6
7	NR	NR	NR	75.78	70.62	69.70	71.79	70.20	NR	NR	NR	NR	7
8	NR	NR	NR	72.94	70.39	69.77	71.93	70.19	NR	NR	NR	NR	8
9	NR	NR	NR	72.13	70.32	69.74	72.43	70.14	NR	NR	NR	NR	9
10	NR	NR	NR	71.80	70.23	69.71	74.05	70.07	NR	NR	NR	NR	10
11	NR	70.28	NR	71.54	70.18	69.71	73.27	70.00 E	NR	NR	NR	NR	11
12	NR	71.69	NR	71.36	70.15	69.78	72.37	69.94 E	NR	NR	NR	NR	12
13	NR	71.29	NR	71.15	70.14	70.71	72.61	69.87 E	NR	NR	NR	NR	13
14	NR	70.12	NR	71.01	70.09	70.28	72.56	69.81 E	NR	NR	NR	NR	14
15	NR	NR	NR	70.92	70.08	70.09	72.26	69.78	NR	NR	NR	NR	15
16	NR	NR	NR	70.83	70.06	69.99	71.90	69.74 E	NR	NR	NR	NR	16
17	NR	NR	NR	70.75	70.02	69.94	71.70	69.71 E	NR	NR	NR	NR	17
18	NR	NR	NR	70.69	70.00	69.88	71.55	69.65 E	NR	NR	NR	NR	18
19	NR	NR	NR	70.68	69.99	69.83	71.41	69.62 E	NR	NR	NR	NR	19
20	NR	NR	69.98	70.84	69.99	69.80	71.34	69.60	NR	NR	NR	NR	20
21	NR	NR	69.76	70.69	69.97	69.78	71.23	NR	NR	NR	NR	NR	21
22	NR	NR	69.72	70.57	69.96	69.77	71.10	NR	NR	NR	NR	NR	22
23	NR	NR	77.70E	70.52	69.89	69.76	70.97	NR	NR	NR	NR	NR	23
24	NR	NR	78.34E	71.90	69.80	69.77	70.86	NR	NR	NR	NR	NR	24
25	NR	NR	72.43	71.12	69.78	69.77	70.78	NR	NR	NR	NR	NR	25
26	NR	NR	71.67E	70.78	69.77	69.78	70.70	NR	NR	NR	NR	NR	26
27	NR	NR	75.12	70.67	69.83	70.56	70.63	NR	NR	NR	NR	NR	27
28	NR	NR	73.97	70.61	70.11	71.03	70.54	NR	NR	NR	NR	NR	28
29	NR	NR	72.74	70.54		70.36	70.48	NR	NR	NR	NR	NR	29
30	NR	NR	71.90	70.48		70.20	70.43	NR	NR	NR	NR	NR	30
31	NR		71.89	70.43		70.14		NR		NR	NR		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-23-64	1125	83.25	1- 6-65	1415	78.61						
12-24-64	1540	78.92	1- 7-65	0800	78.76						
12-27-64	0745	77.52	4-10-65	1900	75.18						

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 15 36	119 56 42	SE 1 8S 18E	8497E	83.9	2-1-63	NOV 59-SEP 62	OCT 62-DATE	1959		0.00	USCGS

Station located 6.0 miles northwest of Raymond on Raymond Road. Elevation of station is approximately 600 feet. U. S. Coast and Geodetic Survey datum. This station was installed in cooperation with Madera County and Chowchilla Water District. It is a flood control warning station, equipped with a Stevens Surface Detector and Telemark. Low flows are not recorded. Prior to 1962, high flow records were insufficient for publication. Discharge measurements and partial flow records are available in DWR files. In order to machine process this station, the recorder datum was changed. To obtain true elevations add 500 feet to all of the above gage heights. Drainage area is 201.7 square miles.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1965	B07575	SAN JOAQUIN RIVER ABOVE SAND SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		NF	NR	13.86	11.91	10.30	9.75	10.93	10.85	9.78	10.46	9.89	1
2		NF	NR	13.77	11.84	10.37	9.74	10.66	10.69	9.75	10.57	9.79	2
3		NF	NR	13.28	11.79	10.38	9.74	10.54	10.56	9.75	10.53	10.01	3
4		NF	NR	13.02	11.73	10.31	9.74	10.47	10.51	9.86	10.56	9.98	4
5		NF	NR	13.84	11.63	10.19	10.82	10.43	10.42	10.20	10.59	9.95	5
6		NR	NR	13.96	11.54	10.09	11.51	10.41	10.42	10.60	10.52	9.98	6
7		NR	NR	15.40	11.54	9.97	11.32	10.52	10.51	10.61	10.60	10.03	7
8		NR	NR	16.16	12.18	9.82	11.30	10.73	10.64	10.75	10.63	10.25	8
9		NR	NR	15.03	12.01	9.73	12.22	10.56	10.58	10.64	10.50	10.36	9
10		NR	NR	14.55	11.91	9.73	13.16	10.48	10.56	10.50	10.25	10.10	10
11		NR	NR	13.73	11.90	9.74	14.22	10.30	10.48	10.38	10.14	9.94	11
12	N	NR	NR	13.17	11.72	9.72	14.23	10.09	10.37	10.25	10.17	9.85	12
13	O	NR	NR	12.69	11.68	9.73	13.93	10.03	10.42	9.97	10.47	10.21	13
14		NR	NR	12.46	11.42	9.77	13.55	9.78	10.71	9.89	10.42	10.18	14
15		NR	NR	12.50	11.36	9.74	13.57	9.83	10.64	9.92	10.34	10.05	15
16	F	NR	NR	12.32	11.29	9.73	13.51	10.04	10.56	10.04	10.51	9.84	16
17	L	NR	NR	12.29	11.21	9.72	13.22	9.93	10.53	10.11	10.47	9.77	17
18	O	NR	NR	12.36	11.03	9.71	12.84	9.92	10.57	10.12	10.37	9.77	18
19	W	NR	NR	12.25	10.85	9.72	12.61	9.87	10.42	10.38	10.45	9.83	19
20		NR	NR	12.18	10.86	9.72	12.47	9.75	10.28	10.58	10.45	10.12	20
21		NR	NR	12.19	10.88	9.71	12.39	9.94	10.14	10.45	10.35	10.51	21
22		NR	NR	12.24	10.68	9.71	12.32	9.99	10.01	10.55	10.67	10.50	22
23		NR	NR	12.14	10.72	9.72	12.08	10.17	9.96	10.61	11.02	10.49	23
24		NR	11.15	12.10	10.53	9.72	11.96	10.54	10.23	10.49	10.99	10.46	24
25		NR	14.67	12.17	10.43	9.71	11.87	10.59	10.53	10.20	10.90	10.43	25
26		NR	15.17	13.05	10.35	9.71	11.81	10.59	10.62	10.02	10.55	10.35	26
27		NR	14.73	12.65	10.29	9.72	11.75	10.59	10.45	9.84	10.23	10.27	27
28		NR	15.28	12.36	10.26	9.73	11.63	10.44	10.18	9.76	10.33	10.39	28
29		NR	15.60	12.22		9.73	11.43	10.46	9.98	9.75	10.54	10.34	29
30		NR	15.18	12.09		9.73	11.27	10.56	9.83	9.75	10.66	10.28	30
31			14.36	11.98		9.73		10.61		10.12	10.36		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-26-64	0700	15.25	4-11-65	1950	14.59						
12-29-64	1040	15.71									
1- 8-65	0540	16.50									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 06 36	120 35 24	NE31 9S 13E	2110	6.55	2-12-62	OCT 61-SEP 62	OCT 62-DATE	1961		0.00	USCGS

Station located 5 miles northwest of Santa Rita Bridge and 5 miles west of El Nido. In order to machine process this station, the recorder datum was changed. To obtain true elevations add 90 feet to all of the above gage heights.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	60.81	60.64	60.54	69.92	63.57	61.71	61.88	62.47	61.98	62.18	61.05	62.00	1
2	60.74	60.65	60.50	69.67	63.44	61.77	61.79	62.36	62.15	61.82	61.14	62.14	2
3	60.72	60.62	60.47	68.88	63.26	61.64	61.87	62.43	62.54	61.55	61.22	62.10	3
4	60.73	60.59	60.47	68.06	63.12	61.29	61.86	62.49	62.54	61.45	61.21	61.95	4
5	60.78	60.54	60.46	67.61	63.06	61.22	61.72	62.41	62.68	61.46	61.19	61.89	5
6	60.76	60.49	60.44	67.80	62.99	61.18	61.55	62.35	62.54	61.61	61.16	61.90	6
7	60.73	60.48	60.44	68.66	63.00	61.20	61.36	62.30	62.86	61.67	61.17	61.99	7
8	60.72	60.47	60.41	71.08	63.20	61.21	62.19	62.19	62.75	61.58	61.18	62.02	8
9	60.72	60.48	60.39	72.10	63.14	61.26	63.25	62.14	62.63	61.50	61.23	62.04	9
10	60.72	60.49	60.40	71.59	63.25	61.28	65.65	62.09	62.91	61.42	61.20	62.60	10
11	60.71	60.46	60.43	70.62	63.25	61.31	66.62	62.04	62.87	61.31	61.19	62.50	11
12	60.70	60.47	60.40	69.56	63.09	61.41	68.21	61.92	62.76	61.27	61.17	62.38	12
13	60.65	60.48	60.40	68.48	62.86	61.49	68.86	61.76	62.57	61.25	61.25	62.34	13
14	60.62	60.59	60.40	67.30	62.55	61.89	68.87	61.62	62.45	61.21	61.39	62.26	14
15	60.59	61.58	60.40	66.37	62.58	62.20	68.71	61.58	62.61	61.16	61.42	62.30	15
16	60.55	61.28	60.41	65.79	62.49	62.12	68.27	61.60	62.43	61.18	61.46	62.45	16
17	60.55	60.80	60.43	65.43	62.38	61.78	67.76	61.69	62.39	61.06	61.50	62.50	17
18	60.58	60.83	60.43	65.08	62.22	61.49	67.31	61.82	62.28	60.98	61.59	62.54	18
19	60.55	60.83	60.49	64.83	61.87	61.39	66.62	61.90	62.13	60.99	61.71	62.53	19
20	60.55	60.80	60.46	64.67	61.60	61.43	65.84	61.84	62.00	60.95	61.68	62.49	20
21	60.55	60.74	60.43 E	64.47	61.49	61.37	65.32	61.65	61.97	60.91	61.67	62.39	21
22	60.55	60.69	60.44 E	64.34	61.41	61.46	64.76	61.73	61.63	61.06	61.69	62.15	22
23	60.54	60.68	60.47 E	64.24	61.38	61.49	64.53	61.83	61.50	61.10	61.65	62.01	23
24	60.57	60.66	61.56 E	64.09	61.38	61.55	64.32	61.94	61.74	61.24	61.61	62.07	24
25	60.57	60.63	64.33 E	64.15	61.34	61.55	63.49	62.07	61.75	61.29	61.75	62.13	25
26	60.50	60.61	66.24 E	64.32	61.40	61.49	63.47	62.09	61.91	61.13	61.84	62.08	26
27	60.47	60.58	67.74 E	64.51	61.42	61.39	64.22	61.98	62.01	61.09	61.86	61.99	27
28	60.48	60.54	69.13 E	64.60	61.53	61.37	63.80	61.87	62.13	61.06	61.93	61.96	28
29	60.57	60.53	70.09	64.36		61.69	63.18	61.85	62.30	60.97	61.89	61.94	29
30	60.85	60.50	70.58	64.01		62.36	62.76	61.96	62.31	60.96	61.82	61.76	30
31	60.80		70.28	63.77		62.18		61.96		61.08	61.83		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-30-64	1150	70.63									
1- 9-65	1340	72.20									
4-14-65	1830	68.90									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 17 42	120 51 00	26 7S 10E	6060	73.04	2-17-62	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	54.55	55.16	54.97	62.56	57.14	55.04	55.27	56.37	55.79	55.81	55.43	55.63	1
2	54.52	55.32	54.96	62.43	56.95	56.15	56.21	56.45	55.92	55.56	55.40	55.77	2
3	54.56	55.41	54.95	62.03	56.74	56.29	56.30	56.44	56.09	55.47	55.34	55.80	3
4	54.63	55.34	54.93	61.37	56.62	56.33	56.22	56.64	56.03	55.42	55.24	55.77	4
5	54.58	55.28	54.92	60.86	56.56	57.22	56.20	56.61	56.00	55.54	55.27	55.71	5
6	54.50	55.27	54.92	60.70	56.50	56.16	56.13	56.49	56.02	55.56	55.30	55.62	6
7	54.45	55.19	54.91	61.25	56.52	56.42	55.91	56.60	56.13	55.57	55.19	55.59	7
8	54.41	55.13	54.88	63.00	56.82	56.96	56.12	56.55	56.34	55.53	55.36	55.65	8
9	54.29	55.21	54.83	64.31	56.80	57.06	56.88	56.47	56.45	55.43	55.40	55.66	9
10	54.29	55.28	54.78	64.57	56.58	57.07	58.31	56.36	56.68	55.38	55.39	55.94	10
11	54.24	55.28	54.75	64.14	56.59	56.90	59.35	56.18	56.77	55.47	55.43	55.89	11
12	54.14	55.26	54.76	63.42	56.50	56.76	60.58	56.07	56.80	55.45	55.43	55.77	12
13	53.98	55.27	54.74	62.42	56.37	56.56	61.40	55.95	56.77	55.53	55.35	55.77	13
14	NR	55.28	54.74	61.27	56.32	56.01	61.46	55.75	56.68	55.45	55.50	55.60	14
15	53.91	55.59	54.74	60.30	56.39	56.40	61.42	55.74	56.72	55.37	55.58	55.61	15
16	NR	55.77	54.76	59.75	56.34	56.66	61.28	55.85	56.64	55.23	55.49	55.66	16
17	NR	55.48	54.81	59.38	56.20	56.67	61.09	55.86	56.45	55.08	55.50	55.84	17
18	NR	55.36	54.83	59.05	55.99	56.62	60.85	55.85	56.04	55.13	55.45	55.91	18
19	NR	55.38	54.77	58.64	55.83	56.00	60.44	55.82	55.91	55.21	55.53	55.84	19
20	NR	55.33	54.80	58.28	55.63	55.96	59.46	55.83	55.84	55.26	55.47	55.88	20
21	NR	55.26	54.82	58.05	55.59	55.87	58.61	55.72	55.73	55.21	55.52	55.97	21
22	NR	55.26	54.82	57.87	55.58	55.83	58.15	55.84	55.56	55.06	55.45	55.80	22
23	NR	55.29	54.86	57.73	55.63	55.81	57.94	56.08	55.39	55.03	55.59	55.58	23
24	NR	55.28	55.16	57.67	55.65	55.74	58.04	56.03	55.50	55.21	55.57	55.59	24
25	NR	55.26	57.26	57.92	55.58	55.77	57.79	55.94	55.69	55.30	55.59	55.62	25
26	NR	55.25	59.64	58.20	55.65	55.95	57.51	55.75	55.77	55.28	55.54	55.56	26
27	NR	55.14	60.72	58.29	55.79	55.92	57.59	55.81	55.87	55.48	55.58	55.65	27
28	53.91	55.08	61.26	58.21	55.92	55.93	57.33	55.76	55.80	55.30	55.63	55.70	28
29	54.18	54.95	62.02	57.70		56.07	56.96	55.52	55.95	55.19	55.66	55.62	29
30	54.57	54.92	62.58	57.33		56.34	56.59	55.72	55.98	55.29	55.64	55.55	30
31	54.93		62.74	57.16		56.33		55.81		55.38	55.68		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-31-64	0400	62.77									
1-10-65	0700	64.62									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 18 35	120 55 45		5910	71.14	4-6-58	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles above the Merced River. During periods of high flow, some water bypasses station through Mud Slough. Maximum discharge of record is for period 1944 to date. Records furnished by U. S. Geological Survey. Drainage area is approximately 8,090 square miles. Flow records are published in U. S. Geological Survey report "Surface Water Records of California".

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.74	5.98	6.73	5.91	7.59	5.69	5.52	7.42	8.96	7.10	6.11	5.91	1
2	4.75	5.83	7.35	5.71	6.01	11.76	5.49	10.50	8.98	7.89	6.09	5.91	2
3	4.75	5.89	6.43	5.57	6.56	12.00	5.46	10.43	9.05	7.21	6.07	5.96	3
4	4.74	5.87	6.79	5.56	9.68	11.53	5.45	10.41	9.11	7.14	6.07	5.93	4
5	4.75	5.83	5.64	5.63	9.95	9.73	7.91	10.37	9.12	7.15	6.07	5.94	5
6	4.77	5.62	5.40	11.93	10.36	11.47	9.45	10.35	9.14	6.93	6.11	5.94	6
7	4.76	5.52	5.30	16.44	10.73	11.55	9.50	10.32	9.47	6.59	6.06	5.96	7
8	4.76	5.54	5.22	14.16	8.30	11.51	9.99	10.32	10.40	6.53	6.01	6.05	8
9	4.77	5.67	5.17	12.86	6.08	11.34	10.23	10.24	10.81	6.55	5.98	6.16	9
10	4.77	6.63	5.12	11.49	5.80	11.09	11.19	10.16	10.95	6.41	5.95	6.06	10
11	4.79	7.39	5.10	9.89	5.72	10.99	11.54	10.13	10.98	6.25	5.94	6.03	11
12	4.80	7.65	5.07	6.59	6.82	9.62	7.86	9.84	10.98	6.22	6.01	6.00	12
13	4.78	8.99	5.03	7.89	10.37	7.41	6.48	8.66	10.97	6.19	6.02	6.04	13
14	4.78	8.47	5.02	10.33	10.37	10.80	7.02	8.60	10.97	6.19	6.11	6.04	14
15	4.78	7.98	5.00	10.59	10.29	10.85	11.21	8.58	10.96	6.11	6.09	5.97	15
16	4.78	7.58	4.98	10.60	9.68	10.96	11.30	8.57	9.75	6.12	6.07	5.96	16
17	4.78	7.12	4.96	10.20	9.00	10.96	11.30	8.61	7.76	6.12	6.09	5.94	17
18	4.79	6.73	5.04	7.74	8.66	9.94	11.06	8.62	7.65	6.19	6.01	5.90	18
19	4.78	6.64	5.23	6.22	8.48	6.58	6.88	8.63	7.68	6.21	6.00	5.85	19
20	4.77	6.47	5.19	6.02	6.61	6.63	5.90	8.65	7.57	6.15	6.00	5.82	20
21	4.77	6.78	5.23	5.88	9.06	6.61	6.66	8.72	7.37	6.15	6.01	5.85	21
22	4.77	6.57	5.78	7.26	8.83	6.50	10.89	8.81	6.71	6.15	6.00	5.88	22
23	4.85	6.46	5.87	10.09	8.72	6.37	10.89	8.85	6.62	6.14	6.02	5.85	23
24	4.88	6.39	6.32	11.09	8.57	6.28	10.67	8.88	6.87	6.12	5.89	5.83	24
25	4.89	6.45	6.22	11.19	6.29	6.27	10.22	8.93	8.53	6.09	5.87	5.82	25
26	4.89	6.86	6.11	11.03	5.97	6.22	7.00	8.95	8.58	6.12	5.96	5.84	26
27	4.90	6.97	6.29	9.71	5.79	6.23	6.42	8.96	7.43	6.12	5.97	5.79	27
28	4.91	6.91	6.25	6.39	5.67	6.61	5.43	8.96	6.55	6.09	5.94	5.76	28
29	4.99	7.32	6.12	5.99		6.29	6.69	8.97	6.56	6.13	5.94	5.93	29
30	4.98	6.72	5.93	9.11		5.67	8.71	9.00	6.60	6.16	5.94	6.35	30
31	5.87		5.95	9.96		5.58		8.98		6.13	5.91		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1- 7-65	1230	17.10	2-13-65	1530	10.87	4-16-65	1130	11.35			
1-25-65	2210	11.32	3- 4-65	1600	12.17	6-15-65	2040	11.36			
2- 7-65	1520	11.04	4-10-65	2400	11.56						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		0.00	LOCAL

Station located 0.2 miles below Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and Lake McClure. Prior to November 1958, records available for a site 3.6 miles downstream. Altitude of gage is 221 feet, U. S. Geological Survey datum.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.43	10.69	11.98	12.35	14.65	10.92	10.60	11.43	14.03	11.18	10.51	10.46	1
2	10.40	10.82	12.20	11.60	12.08	14.25	10.51	13.96	14.05	12.10	10.55	10.46	2
3	10.41	11.01	12.51	11.37	11.40	18.13	10.44	15.78	14.02	12.30	10.48	10.53	3
4	10.43	11.00	11.90	11.43	13.22	18.31	10.39	15.85	14.11	11.76	10.43	10.54	4
5	10.42	11.01	11.99	11.25	15.04	15.51	10.56	15.81	14.12	11.72	10.47	10.59	5
6	10.37	11.05	11.22	13.17	15.53	16.72	13.93	15.81	14.14	11.73	10.47	10.62	6
7	10.43	11.05	10.93	25.28	16.41	17.67	14.41	15.78	14.18	11.44	10.47	10.63	7
8	10.39	10.98	10.85	24.61	15.85	17.68	15.00	15.75	15.38	11.17	10.56	10.69	8
9	10.41	10.99	10.76	21.97	12.50	17.59	15.36	15.72	16.32	11.12	10.53	10.70	9
10	10.36	11.05	10.68	19.05	11.52	17.13	16.42	15.63	16.68	10.93	10.46	10.71	10
11	10.30	11.68	10.72	17.24	11.22	16.97	17.77	15.53	16.78	10.79	10.45	10.67	11
12	10.39	12.79	10.63	13.92	11.09	16.69	16.09	15.47	16.80	10.76	10.43	10.67	12
13	10.42	13.65	10.55	12.43	13.94	13.01	12.48	14.26	16.75	10.61	10.60	10.72	13
14	10.36	14.85	10.51	15.38	15.88	15.34	12.32	13.62	16.75	10.55	10.63	10.66	14
15	10.30	13.93	10.48	16.25	15.90	16.53	14.76	13.57	16.77	10.45	10.67	10.77	15
16	10.45	13.42	10.46	16.45	15.49	16.68	17.24	13.54	16.54	10.33	10.63	10.75	16
17	10.53	13.00	10.46	16.44	14.57	16.81	17.29	13.59	13.51	10.31	10.55	10.66	17
18	10.52	12.50	10.44	14.96	14.01	16.74	17.27	13.61	12.67	10.35	10.50	10.68	18
19	10.51	12.16	10.47	12.46	13.77	13.34	14.85	13.59	12.67	10.41	10.53	10.71	19
20	10.49	11.96	10.47	11.78	12.94	11.78	11.79	13.65	12.53	10.42	10.48	10.69	20
21	10.47	11.86	10.51	11.55	12.92	11.63	11.12	13.69	12.48	10.39	10.45	10.63	21
22	10.48	12.00	10.54	11.39	14.04	11.50	14.30	13.78	11.92	10.43	10.52	10.62	22
23	10.48	11.84	11.03	14.71	13.89	11.33	16.57	13.86	11.49	10.47	10.52	10.64	23
24	10.51	11.74	14.23	16.43	13.83	11.14	16.53	13.91	11.36	10.44	10.40	10.64	24
25	10.52	11.61	13.37	17.28	12.91	11.12	16.02	13.93	12.42	10.48	10.44	10.57	25
26	10.53	11.65	11.99	17.27	11.51	11.06	14.12	14.00	13.48	10.41	10.45	10.62	26
27	10.54	12.09	13.25	16.41	11.23	11.07	11.79	14.00	13.46	10.46	10.51	10.66	27
28	10.55	12.18	12.32	13.63	11.08	11.16	11.36	13.98	11.71	10.47	10.50	10.64	28
29	10.69	12.26	12.64	11.82		11.44	11.31	13.94	11.29	10.45	10.53	10.62	29
30	10.76	12.51	11.90	12.29		11.11	11.45	13.95	11.16	10.44	10.55	10.61	30
31	10.72		12.13	15.65		10.70		14.00		10.45	10.53		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-14-64	0330	15.12	1-26-65	0630	17.44	3- 4-65	2250	18.35			
12-24-64	1950	17.80	1-30-65	2400	16.25	4-11-65	1010	18.07			
1- 7-65	2040	27.40	2- 8-65	0230	16.74						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67	12-4-50	JUL 41-DATE	APR 41-JUL 41	1950		96.24	USCGS

Station located 150 feet below McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B05138	MERCED RIVER NEAR LIVINGSTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.64	10.98	13.37	14.00	18.29	12.08	12.08	13.15	16.70	12.80	11.59	11.43	1
2	10.68	10.96	12.85	12.97	14.90	14.12	11.90	15.04	16.71	13.29	11.59	11.39	2
3	10.66	11.12	13.94	12.55	13.31	22.52	11.78	19.28	16.62	14.21	11.50	11.31	3
4	10.74	11.20	13.05	12.43	14.02	23.25	11.68	19.57	16.79	13.60	11.43	11.50	4
5	10.73	11.20	13.20	12.36	17.84	20.72	11.59	19.51	16.82	13.44	11.49	11.76	5
6	10.68	11.25	12.55	12.58	18.71	19.95	14.72	19.49	16.90	13.29	11.53	11.72	6
7	10.65	11.32	12.03	26.36	19.96	23.25	17.41	19.49	17.01	13.15	11.45	11.68	7
8	10.66	11.32	11.80	29.93	20.10	22.39	18.04	19.46	18.09	12.79	11.51	11.79	8
9	10.66	11.29	11.67	28.20	15.73	22.43	18.91	19.47	19.90	12.66	11.61	11.57	9
10	10.69	11.36	11.56	25.45	13.57	22.06	20.02	19.38	20.72	12.48	11.44	11.77	10
11	10.67	11.46	11.51	22.58	12.91	21.70	22.23	19.14	20.99	12.35	11.41	11.76	11
12	10.66	12.95	11.47	18.58	12.59	21.38	21.50	19.07	21.14	12.13	11.91	11.76	12
13	10.70	14.13	11.38	15.33	14.45	17.58	15.81	17.93	21.13	12.03	11.80	11.85	13
14	10.69	16.88	11.32	17.53	19.23	17.53	14.89	16.43	21.09	11.82	11.80	11.66	14
15	10.68	16.31	11.28	19.94	19.50	20.75	16.39	16.19	21.13	11.74	11.98	11.58	15
16	10.69	15.41	11.24	20.49	19.17	20.94	21.50	16.17	21.05	11.64	11.80	11.63	16
17	10.77	14.72	11.22	20.56	17.93	21.17	21.88	16.17	17.76	11.54	11.56	11.51	17
18	10.82	14.03	11.20	19.04	16.90	21.18	21.95	16.08	15.44	11.52	11.59	11.53	18
19	10.80	13.44	11.24	15.49	16.23	17.94	19.93	16.00	14.99	11.58	11.47	11.52	19
20	10.80	13.20	11.23	13.99	15.80	14.37	14.86	16.17	15.04	11.56	11.51	11.60	20
21	10.77	12.91	11.23	13.48	14.26	13.82	13.58	16.26	14.72	11.49	11.33	11.46	21
22	10.70	12.96	11.26	13.20	16.52	13.54	15.47	16.39	14.33	11.56	11.42	11.50	22
23	10.70	12.86	11.33	15.94	16.34	13.24	20.50	16.60	13.70	11.55	11.58	11.44	23
24	10.77	12.73	13.57	19.56	16.17	12.98	20.77	16.66	13.44	11.52	11.53	11.44	24
25	10.83	12.56	17.06	21.46	15.68	12.83	20.25	16.57	13.84	11.75	11.53	11.42	25
26	10.78	12.55	13.69	21.70	13.36	12.77	18.72	16.58	15.71	11.73	11.43	11.31	26
27	10.77	12.73	14.29	20.93	12.69	12.86	14.58	16.73	16.07	11.55	11.40	11.48	27
28	10.81	13.34	14.08	17.64	12.36	13.14	13.45	16.75	14.58	11.56	11.35	11.40	28
29	10.93	13.04	13.90	14.27		13.43	13.12	16.51	13.15	11.59	11.57	11.38	29
30	10.97	13.71	13.48	13.42		13.08	13.23	16.53	12.90	11.50	11.60	11.27	30
31	10.96		12.91	18.47		12.39		16.65		11.48	11.37		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-14-64	1410	17.32	1-17-65	1120	20.92	4-11-65	1840	22.88	5- 4-65	0650	19.62
12-25-64	0250	19.63	1-26-65	1130	21.84	4-18-65	1950	21.96	6-13-65	0620	21.20
1- 8-65	0400	30.62	3- 5-65	0200	23.35	4-24-65	1100	20.80			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M D B &M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 23 18	120 47 35	NW29 6S 11E	11100	21.44	2-12-38	MAR 22-SEP 24 OCT 25-FEB 44	JAN 51-JAN 60 APR 62-DATE	1962	DATE	79.5	USGS

Station located 4.5 miles west of Livingston and 9.5 miles upstream from mouth. Early discharge records, 1922-44, available in U. S. Geological Survey Water Supply Papers. Stage records from 1951-1960 were not published, available from Department of Water Resources, State of California. Station reactivated April 1, 1962, for stage only. Drainage area is 1,259 square miles. In order to machine process this station, the recorder datum was changed. To obtain recorder gage heights subtract 10.00 feet from all of the above gage heights.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	807300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	50.09	51.29	50.36	56.09	54.33	50.48	50.90	51.18	52.75	50.61	49.83	49.94	1
2	50.12	50.17	50.16	56.00	53.49	50.41	50.67	51.16	52.79	50.56	49.91	50.02	2
3	50.15	49.60	50.09	55.62	51.95	NR	50.57	53.33	52.85	50.89	49.75	50.00	3
4	50.19	49.60	50.30	54.93	51.43	56.17	50.49	54.43	52.85	50.89	49.67	50.00	4
5	50.19	49.54	50.07	54.27	NR	56.36	50.44	54.59	52.90	50.80	49.67	50.06	5
6	50.14	49.54	50.11	53.92	53.86	54.56	50.65	54.54	52.91	50.73	49.70	50.12	6
7	50.06	49.52	49.86	55.87	54.40	55.58	52.47	54.55	53.00	50.75	49.71	50.09	7
8	50.08	49.50	49.66	60.46	55.08	56.15	53.07	54.57	53.23	50.60	49.78	50.14	8
9	50.03	49.55	49.47	62.28	54.20	56.25	54.02	54.58	54.29	50.49	49.94	50.19	9
10	50.02	49.59	49.73	62.61	52.12	55.23	54.89	54.63	55.01	50.32	49.83	50.17	10
11	49.97	49.64	49.79	61.86	51.44	55.99	56.30	54.46	55.35	50.24	49.86	50.22	11
12	50.03	49.71	49.84	60.46	51.13	55.77	57.43	54.30	55.51	50.28	50.07	50.17	12
13	50.16	50.13	49.67	58.21	50.98	55.09	56.70	54.14	55.57	50.16	50.06	50.21	13
14	49.93	50.84	49.41	56.39	NR	52.79	55.60	53.05	55.57	49.99	50.01	50.08	14
15	49.92	51.90	49.32	56.55	54.37	54.76	55.30	53.57	55.53	49.90	50.08	50.07	15
16	49.90	51.77	49.32	56.58	54.48	55.28	56.90	52.53	55.54	49.80	50.09	50.02	16
17	49.91	51.37	49.23	56.48	54.07	55.46	57.70	52.59	54.91	49.68	49.90	50.14	17
18	49.95	51.00	49.18	56.17	53.32	55.53	57.75	52.52	52.76	49.66	49.80	50.23	18
19	49.96	50.72	49.22	54.94	52.79	55.13	57.54	52.52	51.98	49.78	49.88	50.13	19
20	49.95	50.49	49.26	53.40	52.57	52.53	55.46	52.48	51.88	49.71	49.87	50.21	20
21	49.94	50.34	49.28	52.77	51.66	51.54	53.46	52.52	51.64	49.69	49.85	50.25	21
22	49.92	50.21	49.28	52.44	52.09	51.25	52.71	52.60	51.41	49.69	49.78	50.09	22
23	49.87	50.27	49.33	52.28	52.56	51.00	54.78	52.83	51.03	49.62	49.95	49.96	23
24	49.87	50.19	49.56	54.30	52.48	50.81	55.70	52.93	50.83	49.68	49.95	49.92	24
25	49.95	50.15	52.00	55.62	52.36	50.72	55.67	52.86	50.81	49.81	49.97	49.94	25
26	50.02	50.11	53.50	56.23	51.41	50.81	55.32	52.81	51.57	49.88	49.91	49.94	26
27	49.95	50.08	53.92	56.31	50.78	50.78	53.67	52.86	52.21	49.92	49.90	49.98	27
28	50.27	50.14	54.65	55.59	50.61	50.94	52.32	52.85	52.10	49.92	49.90	50.08	28
29	50.31	50.21	55.13	53.52		51.03	51.69	52.53	51.18	49.76	49.95	50.04	29
30	51.01	50.17	55.74	52.28		51.26	51.34	52.60	50.84	49.67	50.09	49.94	30
31	51.09		56.04	52.89		51.03		52.76		49.75	50.01		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1- 1-65	1900	56.15									
1-10-65	0800	62.69									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	33000	18.50	3-7-38	APR 12-DATE		1912		47.24	USCGS
									1959	47.31	USCGS
								1959		0.00	USCGS

Station located at bridge on Hills Ferry Road, 300 feet below the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,990 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California".

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	39.50	40.73	39.82	45.74	43.86	40.20	41.02	40.94	42.37	40.16	39.13	39.35	1
2	39.55	40.28	39.74	45.82	43.61	40.11	40.62	40.83	42.38	40.05	39.29	39.37	2
3	39.65	39.34	39.52	45.58	42.14	41.94	40.37	42.12	42.52	40.16	39.07	39.36	3
4	39.65	39.27	39.75	45.08	41.37	45.13	40.34	43.78	42.49	40.40	38.98	39.30	4
5	39.70	39.18	39.59	44.36	41.96	46.05	40.40	44.18	42.51	40.24	39.04	39.40	5
6	39.67	39.13	39.57	44.04	43.28	44.96	40.42	44.24	42.52	40.15	39.00	39.53	6
7	39.66	39.07	39.43	45.01	43.82	44.86	41.68	44.21	42.65	40.20	39.00	39.38	7
8	39.64	39.01	39.22	49.12	44.50	45.74	42.70	44.27	42.76	40.11	39.08	39.41	8
9	39.59	39.05	39.05	52.35	44.43	46.07	43.63	44.37	43.53	39.97	39.23	39.47	9
10	39.56	39.13	39.06	53.78	42.48	46.15	44.43	44.41	44.36	39.82	39.16	39.52	10
11	39.53	39.14	39.25	53.64	41.44	46.00	45.83	44.25	44.88	39.68	39.17	39.65	11
12	39.52	39.20	39.28	52.40	41.01	45.83	47.15	44.09	45.12	39.67	39.36	39.55	12
13	39.64	39.46	39.19	50.19	40.76	45.48	47.35	44.01	45.28	39.63	39.53	39.57	13
14	39.44	40.02	38.99	47.75	42.07	43.38	46.13	43.25	45.34	39.43	39.59	39.50	14
15	39.38	41.11	38.80	46.80	43.72	43.93	45.46	42.51	45.36	39.28	39.66	39.40	15
16	39.40	41.30	38.81	46.78	44.04	44.98	46.27	42.34	45.36	39.23	39.45	39.32	16
17	39.36	41.03	38.74	46.67	43.88	45.27	47.71	42.32	45.11	39.10	39.28	39.45	17
18	39.40	40.65	38.65	46.44	43.22	45.40	48.09	42.25	43.28	39.03	39.10	39.52	18
19	39.40	40.36	38.69	45.55	42.64	45.34	48.07	42.22	42.01	39.12	39.13	39.47	19
20	39.39	40.10	38.71	43.90	42.30	43.38	46.76	42.18	41.77	39.10	39.12	39.49	20
21	39.36	39.93	38.72	42.97	41.76	41.72	44.27	42.21	41.53	39.11	39.21	39.53	21
22	39.34	39.77	38.72	42.51	41.48	41.32	43.06	42.21	41.15	39.01	39.24	39.43	22
23	39.31	39.77	38.74	42.18	42.17	40.93	43.92	42.44	40.77	38.97	39.31	39.33	23
24	39.29	39.73	38.83	43.42	42.12	40.65	45.38	42.64	40.42	38.97	39.23	39.32	24
25	39.35	39.68	40.22	44.90	42.02	40.52	45.64	42.58	40.37	39.06	39.21	39.27	25
26	39.44	39.65	42.59	45.86	41.45	40.50	45.38	42.57	40.79	39.17	39.16	39.74	26
27	39.40	39.62	43.10	46.19	40.65	40.52	44.14	42.54	41.66	39.17	39.15	39.23	27
28	39.64	39.60	43.79	45.83	40.39	40.61	42.41	42.51	41.78	39.26	39.21	39.38	28
29	39.81	39.73	44.39	44.14		40.73	41.60	42.55	40.94	39.14	39.25	39.35	29
30	40.33	39.64	45.02	42.48		40.89	41.17	42.25	40.44	39.00	39.39	39.27	30
31	40.68		45.56	42.25		40.85		42.36		38.99	39.33		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-10-65	1820	53.94									
3- 5-65	1650	46.22									
4-18-65	2400	48.15									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 26 52	121 00 44	NW 8 6S 9E		61.9	4-7-58		41-DATE		1959	0.00	USED
								1959		0.00	USGS
								1959		3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33.21	34.32	33.41	40.03	37.29	33.80	34.91	34.49	35.88	33.70	32.40	32.88	1
2	33.35	34.23	33.45	40.19	37.61	33.63	34.77	34.30	36.04	33.60	32.57	32.75	2
3	33.59	33.24	33.20	40.08	36.30	34.52	34.56	35.08	36.13	33.56	32.34	32.73	3
4	33.63	33.00	33.32	39.67	35.28	38.07	34.48	37.06	36.18	33.91	32.23	32.66	4
5	33.71	32.92	33.28	39.02	35.37	39.48	34.49	37.59	36.14	33.79	32.07	32.83	5
6	33.67	32.85	33.18	38.41	36.75	39.11	34.45	37.67	36.04	33.60	32.00	33.05	6
7	33.59	32.80	33.11	38.72	37.41	38.36	35.28	37.68	36.12	33.57	31.97	32.86	7
8	33.60	32.76	32.94	41.82	38.08	39.26	36.54	37.78	36.23	33.59	32.22	32.97	8
9	33.51	32.72	32.77	44.82	38.42	39.76	37.38	37.89	36.73	33.47	32.40	32.97	9
10	33.37	32.84	32.68	46.48	36.89	39.91	38.20	37.87	37.68	33.41	32.38	33.02	10
11	33.33	32.85	32.88	46.94	35.46	39.90	39.27	37.73	38.34	33.21	32.39	33.19	11
12	33.35	32.87	32.89	46.33	34.87	39.75	40.65	37.56	38.65	33.20	33.03	33.23	12
13	33.38	33.03	32.84	45.04	34.54	39.57	41.45	37.50	38.83	33.21	33.22	33.17	13
14	33.33	33.49	32.66	43.10	35.14	38.01	40.65	37.00	38.95	32.92	33.21	33.07	14
15	33.24	34.37	32.50	41.62	37.10	37.34	39.85	36.12	38.98	32.80	33.27	32.87	15
16	33.15	34.87	32.46	41.21	37.72	38.60	40.05	35.83	38.97	32.66	32.96	32.86	16
17	33.07	34.71	32.42	40.90	37.73	39.03	41.49	35.76	38.90	32.54	32.70	33.13	17
18	33.10	34.37	32.35	40.63	37.16	39.18	42.14	35.70	37.52	32.39	32.38	33.16	18
19	33.08	34.06	32.36	39.95	36.49	39.12	42.27	35.63	35.78	32.48	32.42	33.20	19
20	33.05	33.80	32.40	38.40	36.03	37.71	41.60	35.67	35.22	32.53	32.44	33.19	20
21	33.02	33.62	32.41	37.10	35.65	35.57	39.35	35.76	35.08	32.52	32.46	33.10	21
22	33.03	33.47	32.41	36.44	35.00	34.93	37.63	35.72	34.64	32.42	32.65	33.18	22
23	33.01	33.40	32.44	35.99	35.65	34.43	37.51	36.02	34.25	32.25	32.71	33.06	23
24	32.97	33.43	32.50	36.72	35.74	34.07	38.99	36.26	33.82	32.22	32.58	33.07	24
25	33.03	33.37	33.30	38.35	35.62	33.87	39.53	36.21	33.74	32.27	32.62	32.92	25
26	33.09	33.31	36.20	39.45	35.29	33.82	39.41	36.16	33.93	32.48	32.61	32.98	26
27	33.07	33.27	37.02	40.00	34.42	33.93	38.52	36.07	34.91	32.42	32.56	32.98	27
28	33.25	33.24	37.73	39.95	34.05	34.08	36.64	36.03	35.24	32.45	32.61	33.10	28
29	33.54	33.36	38.49	38.70		34.29	35.46	35.83	34.57	32.36	32.68	33.11	29
30	33.90	33.29	39.13	36.74		34.46	34.91	35.71	33.88	32.27	32.86	33.10	30
31	34.31		39.72	35.84		34.51		35.82		32.20	32.75		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1- 6-65	0000	48.66	6-17-65	0400	39.02						
3-11-65	0120	39.95									
4-19-65	1110	42.30									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38		APR 38-DATE	1938	1959	0.00	USED
								1959		0.00	USCGS
								1959		3.53	USED

Station located at Patterson-Turlock highway bridge, 3.1 miles northeast of Patterson.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B07080	SAN JOAQUIN RIVER AT GRAYSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	24.81	25.80	25.00	35.28	29.63	26.56	26.73	26.82	27.65	25.80	24.21	24.74	1
2	24.87	26.00	25.00	35.41	30.30	26.22	26.91	26.40	27.69	25.65	24.38	24.74	2
3	25.02	25.15	24.90	35.35	29.53	26.37	26.87	26.77	27.65	25.48	24.28	24.67	3
4	25.20	24.75	24.90	35.08	28.88	29.26	27.04	27.95	27.66	25.83	24.20	24.56	4
5	25.21	24.70	25.00	34.68	28.06	30.95	27.18	29.10	27.69	25.80	24.08	24.67	5
6	25.19	24.65	24.80	34.08	29.26	31.20	27.13	29.33	27.82	25.55	24.00	24.86	6
7	25.10	24.60	24.80	34.21	30.33	30.25	27.29	29.43	27.89	25.51	24.04	24.85	7
8	25.15	24.53	24.60	35.87	31.05	30.87	28.44	29.53	28.04	25.60	24.22	24.85	8
9	25.07	24.58	24.50	37.24	31.30	31.58	29.21	29.62	28.31	25.57	24.32	24.92	9
10	25.00	24.35	24.40	38.28	30.94	31.87	30.22	29.73	29.18	25.43	24.37	24.92	10
11	24.90	24.50	24.50	39.14	29.56	31.77	31.44	29.65	29.85	25.30	24.27	25.04	11
12	24.95	24.50	24.50	39.10	28.49	31.61	33.12	29.47	30.23	25.16	24.87	25.12	12
13	25.05	24.55	24.50	37.60	28.00	31.46	34.27	29.32	30.48	25.27	25.07	25.02	13
14	25.10	24.90	24.40	37.57	27.98	30.55	34.49	29.15	30.88	24.98	25.16	24.93	14
15	25.00	24.65	24.20	36.18	29.43	29.02	34.15	28.39	30.95	24.76	25.18	24.68	15
16	24.85	24.75	24.10	34.83	30.20	30.09	34.16	27.84	30.82	24.65	24.91	24.69	16
17	24.75	26.70	24.15	33.95	30.21	30.63	34.83	27.65	30.87	24.55	24.68	24.89	17
18	24.65	26.00	24.13	33.43	29.84	30.83	35.05	27.51	30.16	24.42	24.46	25.03	18
19	24.65	25.85	24.13	32.36	29.19	30.82	35.07	27.53	28.15	24.37	24.29	25.07	19
20	24.65	25.80	24.16	31.59	28.70	30.00	34.62	27.57	27.20	24.46	24.45	25.02	20
21	24.65	25.80	24.14	30.12	28.39	27.78	32.78	27.60	27.04	24.50	24.35	24.86	21
22	24.70	25.60	24.12	30.70	27.69	27.02	31.00	27.64	26.67	24.44	24.54	25.02	22
23	24.65	25.50	24.25	28.86	28.00	26.48	30.55	27.76	26.37	24.27	24.62	24.88	23
24	24.55	25.00	25.81	29.98	28.45	26.04	31.52	28.14	26.05	24.10	24.58	24.90	24
25	24.55	25.30	30.40	30.34	28.54	25.83	31.98	28.16	25.91	24.21	24.52	24.73	25
26	24.65	25.20	33.14	32.61	28.38	25.72	31.98	28.08	25.92	24.31	24.59	24.77	26
27	24.65	25.10	33.35	32.10	27.95	25.87	31.55	27.90	26.79	24.34	24.49	24.80	27
28	24.70	25.00	34.02	32.88	26.88	25.90	30.17	27.81	27.32	24.31	24.54	25.03	28
29	25.25	25.10	34.49	32.11		26.08	28.44	27.67	26.89	24.18	24.49	25.08	29
30	25.30	25.10	34.93	30.40		26.23	27.53	27.49	26.10	24.22	24.68	25.17	30
31	25.75		35.15	29.16		26.36		27.55		24.08	24.62		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-26-64	0800	33.35	1-12-65	0600	39.25	3- 6-65	1000	31.37	6-17-65	1800	30.92
12-29-64	0930	34.35	1-28-65	0800	32.95	4-19-65	1400	35.12			
1- 2-65	1800	35.45	2- 5-65	1000	28.13	5-10-65	1400	29.80			

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 33 47	121 09 06	NW25 4S 7E	23900	45.15	3-8-41	JUL 28-DATE			1959	0.00	USED
								1960		0.00	USCGS
								1960		3.81	USED

Station located at Laird Slough Bridge, 5 miles above the Tuolumne River. High flows bypassing this station through old channel of San Joaquin River are included in figures shown. Records furnished by City of San Francisco.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B07070	SAN JOAQUIN RIVER AT WEST STANISLAUS I. D. INTAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	20.49	21.84	21.79	34.37	27.56	25.19	22.78	23.48	22.68	22.[illegible]	18.89	19.81	1
2	20.47	21.87	22.02	34.48	27.99	24.93	23.43	22.[illegible]	22.69	22.64	19.23	19.90	2
3	20.39	21.38	21.98	34.31	27.57	24.86	24.46	23.04	23.16	21.40	18.98	19.93	3
4	20.49	21.03	21.77	34.03	26.83	25.97	25.37	23.77	23.50	21.44	18.83	19.86	4
5	20.51	20.95	21.92	33.64	26.56	26.88	25.64	24.30	23.43	21.41	19.01	20.02	5
6	20.52	20.88	21.76	33.16	27.56	27.14	25.47	24.[illegible]	23.88	21.10	18.90	20.14	6
7	20.48	20.87	21.50	33.56	28.69	26.48	25.23	25.[illegible]	23.63	20.96	18.89	20.11	7
8	20.42	20.94	21.43	34.98	29.35	26.83	25.88	25.77	23.62	20.94	19.20	20.03	8
9	20.41	20.86	21.61	35.55	29.72	27.77	26.42	25.32	23.72	20.88	19.46	20.01	9
10	20.38	20.94	21.52	36.06	29.50	27.99	27.42	25.45	24.40	20.82	19.38	19.93	10
11	20.37	21.20	21.57	36.56	28.48	27.10	29.16	25.[illegible]	24.[illegible]	20.83	19.29	20.08	11
12	20.34	21.38	21.64	36.64	27.46	26.42	30.81	24.65	25.31	20.72	20.14	20.25	12
13	20.39	21.46	21.63	36.34	27.05	26.19	31.85	24.43	25.99	21.60	20.59	20.23	13
14	20.46	21.76	21.40	35.71	26.89	26.42	32.49	24.21	27.28	20.94	20.57	20.13	14
15	20.42	22.76	21.37	34.14	27.68	24.41	32.59	23.58	27.09	20.17	20.44	19.93	15
16	20.42	23.38	21.78	32.13	28.07	24.55	32.78	23.06	26.49	20.11	20.29	19.92	16
17	20.20	23.06	22.18	30.91	27.82	24.99	32.88	22.91	26.86	19.82	19.86	20.18	17
18	20.13	22.52	22.28	30.24	27.53	25.10	32.46	22.82	26.57	19.35	19.65	20.42	18
19	20.03	23.13	22.19	29.74	27.08	25.16	32.28	23.35	24.59	19.09	19.38	20.51	19
20	19.93	23.66	22.10	28.96	26.67	24.80	32.08	23.45	23.00	19.32	19.55	20.42	20
21	19.95	23.68	21.84	27.93	26.42	23.16	30.92	23.46	22.62	18.88	19.57	20.09	21
22	19.90	23.55	21.86	27.28	25.97	22.22	29.41	23.68	22.53	18.95	19.83	20.55	22
23	19.87	23.33	22.57	26.87	26.11	21.68	28.54	23.93	23.53	19.04	19.81	20.72	23
24	19.79	23.16	25.27	26.91	26.82	21.37	28.89	24.86	23.67	18.84	19.73	20.83	24
25	19.83	22.64	30.60	27.69	27.11	21.16	29.23	25.03	23.67	19.17	19.58	20.91	25
26	19.89	22.33	32.99	28.79	26.97	21.31	29.12	24.64	23.64	19.12	19.55	21.14	26
27	19.97	21.94	33.01	30.06	26.06	21.52	28.71	23.73	24.03	19.29	19.38	21.22	27
28	20.55	21.74	33.66	30.28	25.51	21.68	27.46	23.26	24.67	19.15	19.49	21.41	28
29	21.20	21.74	34.02	29.66		21.37	25.77	22.95	24.42	19.17	19.59	21.67	29
30	21.47	21.76	34.32	28.56		21.42	24.74	22.71	23.59	19.01	19.72	22.04	30
31	21.73		34.31	27.60		21.87		22.66		18.98	19.63		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-11-65	2330	36.67									
4-17-65	0830	33.00									
6-14-65	1200	27.38									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 36 07	121 10 51	SE10 4S 7E					DEC 50-DATE		1959	0.00	USED
								1959		0.00	USCGS
								1959		3.67	USED

Station located at intake gates for West Stanislaus Irrigation District Canal, 2.6 miles north of Grayson.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	804175	TUOLUMNE RIVER AT LAGRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	67.04	69.15	70.17	75.53	72.29	72.19	69.09	68.85	68.89	69.76	67.42	67.42	1
2	67.16	69.23	69.78	75.42	72.25	72.21	71.36	68.82	70.25	68.75	67.50	67.44	2
3	67.07	69.22	69.91	75.34	72.25	71.73	71.89	68.83	70.12	68.56	67.41	67.45	3
4	67.13	69.23	70.02	75.27	72.44	71.10	71.98	69.07	70.13	68.57	67.51	67.83	4
5	67.17	69.28	69.54	75.31	73.07	70.95	71.50	70.27	69.77	68.57	67.74	67.09	5
6	67.13	69.46	69.46	75.85	73.52	71.00	71.21	70.23	68.95	68.56	67.61	66.99	6
7	67.17	69.22	69.97	75.59	73.54	71.53	71.25	70.14	68.92	68.56	67.42	67.03	7
8	67.08	69.19	69.92	75.30	73.50	71.89	71.25	70.04	69.05	68.56	67.42	67.00	8
9	67.09	69.38	69.89	75.44	73.53	71.45	72.18	70.03	69.40	68.56	67.54	67.00	9
10	67.00	69.58	69.97	75.59	73.17	69.38	72.68	69.32	69.00	68.56	67.70	67.00	10
11	67.00	69.62	70.03	75.68	72.94	68.45	73.10	68.70	69.28	69.13	67.43	66.99	11
12	67.07	69.72	69.79	75.62	72.96	67.52	73.59	68.71	71.08	69.91	67.41	66.99	12
13	67.17	70.23	69.53	75.34	72.95	67.48	73.94	68.71	71.64	68.65	57.40	65.99	13
14	67.23	70.95	70.40	72.82	72.93	67.56	74.41	68.70	70.49	68.65	67.40	67.29	14
15	67.26	70.34	70.42	71.86	72.51	67.86	74.76	68.72	70.21	68.58	67.40	67.36	15
16	67.25	69.83	70.34	71.86	72.25	67.64	73.89	68.69	71.68	67.70	57.49	67.34	16
17	67.39	69.97	70.30	71.80	72.26	67.84	72.94	69.34	70.91	67.44	67.58	67.32	17
18	67.41	71.42	70.47	71.69	72.26	67.83	72.84	70.12	69.60	67.43	67.44	67.34	18
19	67.39	71.47	70.33	71.71	72.26	67.66	72.69	69.36	68.98	67.43	67.41	67.41	19
20	67.34	71.35	70.11	71.75	72.24	67.53	72.20	70.12	68.93	67.42	67.40	68.58	20
21	67.34	71.31	70.68	71.83	72.18	67.45	72.20	70.36	70.16	57.66	67.40	68.95	21
22	67.35	71.13	71.17 E	71.75	72.45	67.44	72.22	70.69	71.44	67.94	67.42	59.05	22
23	67.41	70.81	72.69 E	71.75	72.94	67.42	72.20	71.34	71.46	67.45	57.45	59.07	23
24	67.41	70.26	75.15 E	71.69	72.99	68.37	72.05	71.15	71.47	57.44	67.45	69.39	24
25	67.67	69.88	74.95	72.37	72.81	68.40	71.95	70.20	71.16	67.43	67.44	69.52	25
26	68.97	69.68	75.04	73.18	72.30	68.44	71.95	69.49	71.43	67.43	67.44	69.47	26
27	69.29	69.72	75.02	72.80	72.26	67.47	71.46	69.33	71.55	67.43	67.43	59.50	27
28	69.21	69.73	75.35	72.54	72.20	67.43	70.96	69.21	71.55	67.42	67.43	59.47	28
29	69.13	69.72	75.44	72.53		68.37	69.83	68.74	70.81	67.42	67.42	70.30	29
30	69.23	69.88	75.40	72.50		68.40	68.90	68.75	70.58	67.41	67.42	7 .44	30
31	69.22		75.51	72.44		69.02		68.74		67.42	67.41		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-31-64	1140	75.72	4-15-65	0620	74.89						
1- 7-65	0340	76.49									
1-10-65	0950	75.89									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 39 59	120 27 40	NW20 3S 14E	48200	88.0	12-8-50	OCT 36-SEP 6[illegible] OCT 61-DATE		1937		[illegible].00	USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by reservoirs and powerplants. Drainage area is 1,540 square miles. In order to machine process this station the recorder datum was changed. To obtain true elevations add 100 feet to all of the above gage heights.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B04165	TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	8.66	10.35	10.93	16.43	12.66	12.39	09.54	9.54	9.41	10.79	8.26	8.36	1
2	8.68	10.38	10.73	16.26	12.57	12.40	11.22	9.48	10.35	9.45	8.24	8.39	2
3	8.72	10.38	10.72	16.17	12.58	12.11	11.94	9.49	10.40	9.35	8.28	8.42	3
4	8.73	10.38	10.83	16.08	12.62	11.44	12.09	9.50	10.42	9.28	8.28	8.62	4
5	8.71	10.37	10.51	16.03	13.29	11.20	11.83	10.49	10.35	9.28	8.40	8.74	5
6	8.78	10.43	10.36	16.60	13.91	11.22	11.40	10.53	9.60	9.28	8.66	8.45	6
7	8.77	10.56	10.50	16.45	13.96	11.47	11.45	10.49	9.51	9.28	8.53	8.37	7
8	8.80	10.34	10.75	16.00	13.91	11.99	11.37	10.39	9.61	9.27	8.34	8.37	8
9	8.77	10.37	10.72	16.24	13.93	11.92	12.11	10.38	9.87	9.27	8.31	8.39	9
10	8.76	10.58	10.75	16.30	13.70	10.34	12.80	10.07	9.61	9.27	8.52	8.37	10
11	8.77	10.71	10.79	16.50	13.24	9.67	13.12	9.41	9.61	9.38	8.62	8.36	11
12	8.74	10.84	10.73	16.41	13.23	8.71	13.66	9.39	10.68	10.26	8.38	8.35	12
13	8.73	11.10	10.47	16.24	13.26	8.54	14.19	9.38	11.95	9.61	8.36	8.36	13
14	8.72	11.97	10.80	13.91	13.22	8.48	14.48	9.38	11.04	9.36	8.34	8.34	14
15	8.77	11.53	11.17	12.32	12.96	8.68	15.09	9.37	10.47	9.39	8.33	8.40	15
16	8.81	11.03	11.13	12.28	12.53	8.67	14.53	9.38	11.45	8.82	8.33	8.48	16
17	8.81	10.69	11.05	12.25	12.51	8.72	13.20	9.59	11.43	8.60	8.37	8.44	17
18	8.84	12.24	11.20	12.12	12.51	8.79	13.02	10.37	10.44	8.32	8.53	8.44	18
19	8.83	12.39	11.18	12.13	12.52	8.69	13.00	10.30	9.64	8.30	8.38	8.45	19
20	8.82	12.42	10.99	12.15	12.50	8.55	12.38	10.41	9.57	8.30	8.35	8.84	20
21	8.83	12.28	11.13	12.23	12.43	8.44	12.36	10.54	10.01	8.30	8.33	9.74	21
22	8.83	12.09	11.82	12.19	12.52	8.39	12.37	10.68	11.54	8.87	8.33	9.83	22
23	8.82	11.86	13.49	12.15	13.12	8.37	12.36	11.44	11.57	8.45	8.33	9.84	23
24	8.86	11.21	16.29	12.11	13.23	8.73	12.24	11.33	11.59	8.31	8.32	9.97	24
25	8.86	11.02	16.00	12.50	13.16	9.24	12.09	10.86	11.57	8.25	8.36	10.17	25
26	9.74	10.68	15.98	13.55	12.54	9.26	12.08	10.05	11.32	8.26	8.38	10.16	26
27	10.52	10.60	16.04	13.35	12.50	8.95	11.80	9.84	11.68	8.27	8.37	10.17	27
28	10.49	10.61	16.26	12.92	12.41	8.46	11.24	9.76	11.67	8.28	8.37	10.33	28
29	10.44	10.59	16.46	12.90		8.76	10.66	9.43	11.33	8.28	8.39	10.76	29
30	10.42	10.62	16.35	12.87		9.25	09.63	9.40	10.70	8.29	8.36	10.97	30
31	10.41		16.39	12.81		9.65		9.41		8.29	8.32		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-20-64	0140	13.05	6-13-65	0730	12.48						
1- 6-65	1710	17.07									
4-15-65	1020	15.14									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 38 08	120 37 03	NW35 3S 12E	49800	28.2	12-8-50	JUL 28-OCT 36 JAN 37-FEB 38 JUN 38-DATE		1930 1940	1940	106.20 0.00	USCGS USCGS

Station located at highway bridge, 7.5 miles east of Waterford. In order to machine process this station, the recorder datum was changed. To obtain true elevations add 100 feet to all of the above gage heights.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	804150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	71.32	73.08	73.90	78.60	75.10	74.84	72.04	71.66	71.52	73.28	70.30	70.28	1
2	71.36	73.11	73.91	78.46	74.98	74.86	73.51	71.62	72.42	71.60	70.28	70.28	2
2	71.38	73.16	73.75	78.37	74.96	74.65	74.53	71.59	72.63	71.50	70.28	70.30	2
4	71.40	73.16	73.85	78.26	74.97	73.89	74.73	71.54	72.65	71.37	70.30	70.30	4
5	71.37	73.17	73.75	78.20	75.61	73.58	74.53	72.56	72.63	71.36	70.34	70.65	5
6	71.39	73.21	73.47	78.62	76.18	73.59	74.00	72.80	71.91	71.35	70.60	70.36	6
7	71.40	73.36	73.49	78.59	76.25	73.79	74.05	72.77	71.62	71.35	70.51	70.33	7
8	71.41	73.14	73.84	78.04	76.21	74.45	73.97	72.64	71.72	71.38	70.36	70.26	8
9	71.43	73.16	73.80	78.27	76.21	74.43	74.57	72.64	71.95	71.35	70.31	70.26	9
10	71.42	73.40	73.80	78.28	76.07	72.91	75.40	72.42	71.80	71.37	70.42	70.25	10
11	71.43	73.52	73.85	78.49	75.61	72.01	75.63	71.57	71.70	71.37	70.60	70.24	11
12	71.40	73.62	73.86	78.39	75.62	71.08	76.11	71.53	72.59	72.48	70.55	70.26	12
13	71.39	73.78	73.62	78.26	75.63	70.91	76.69	71.51	74.35	71.89	70.38	70.25	13
14	71.48	74.59	73.70	76.59	75.58	70.62	76.85	71.51	73.43	71.42	70.32	70.24	14
15	71.80	74.40	74.24	74.70	75.40	70.64	77.44	71.48	72.67	71.46	70.31	70.23	15
16	71.59	73.96	74.26	74.62	74.91	70.86	77.12	71.51	73.55	71.09	70.30	70.30	16
17	71.55	73.52	74.16	74.56	74.91	70.74	75.82	71.63	73.90	70.68	70.31	70.29	17
18	71.53	74.80	74.22	74.45	74.90	70.91	75.62	72.61	72.84	70.41	70.42	70.29	18
19	71.51	75.15	74.28	74.45	74.90	70.84	75.60	72.55	71.80	70.34	70.39	70.29	19
20	71.49	75.19	74.17	74.44	74.88	70.75	75.03	72.65	71.69	70.33	70.32	70.34	20
21	71.50	75.10	74.13	74.52	74.83	70.60	74.95	72.79	71.87	70.35	70.29	71.51	21
22	71.51	74.94	74.72	74.53	74.89	70.53	74.93	72.83	73.80	70.74	70.28	71.69	22
23	71.51	74.81	76.11	74.51	75.48	70.50	74.93	73.74	73.89	70.54	70.28	71.71	23
24	71.56	74.19	78.62	74.43	75.62	70.58	74.74	73.69	73.92	70.32	70.29	71.81	24
25	71.59	74.03	78.46	74.74	75.61	71.33	74.53	73.37	73.95	70.28	70.28	72.08	25
26	71.97	73.72	78.37	75.87	75.03	71.36	74.52	72.31	73.58	70.28	70.31	72.08	26
27	73.12	73.59	78.44	75.74	74.94	71.31	74.35	72.04	74.01	70.30	70.29	72.09	27
28	73.12	73.63	78.51	75.28	74.87	70.61	73.63	71.95	74.03	70.31	70.29	72.19	28
29	73.16	73.62	78.70	75.25		70.61	73.17	71.61	73.78	70.32	70.29	72.64	29
30	73.05	73.65	78.57	75.24		71.35	71.81	71.53	72.98	70.32	70.28	72.93	30
21	73.12		78.57	75.20		71.72		71.50		70.33	70.25		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-24-64	1920	78.94	6-13-65	1030	74.78						
4-15-65	1350	77.47									
5-24-65	0430	73.90									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		0.00	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. Altitude of gage is approximately 80 feet, U. S. Coast and Geodetic Survey datum. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.55	68.23	67.81	73.54	68.15	67.86	69.58	68.77	68.62	69.27	69.45	68.66	1
2	68.57	68.10	67.81	70.97	68.10	67.82	69.10	68.74	68.87	69.00	69.58	68.65	2
3	68.49	67.97	67.81	70.01	68.08	67.82	68.62	68.81	69.39	69.33	69.48	68.60	3
4	68.59	67.89	67.87	70.06	68.06	67.83	68.79	68.88	69.27	69.41	69.41	69.57	4
5	68.60	67.84	67.90	69.83	68.07	67.83	68.87	68.71	69.27	69.37	69.30	68.59	5
6	68.66	67.82	67.93	70.46	68.05	67.82	69.20	68.86	69.57	69.50	68.96	68.71	6
7	68.51	67.80	67.85	81.71	68.58	67.82	69.15	68.86	69.56	69.59	68.38	68.89	7
8	68.66	67.78	67.85	75.89	68.70	67.82	69.17	68.94	69.44	69.38	68.44	69.00	8
9	69.17	67.82	67.84	71.40	68.37	67.82	69.16	68.87	68.94	69.26	68.57	69.10	9
10	69.40	68.32	67.82	70.27	68.23	67.82	70.27	68.95	68.91	68.86	68.57	69.44	10
11	69.52	69.59	67.77	69.73	68.16	67.97	75.50	68.91	69.39	68.54	68.79	69.41	11
12	69.63	69.24	67.72	69.40	68.12	68.17	72.40	68.94	69.53	68.58	69.21	69.47	12
13	69.54	69.20	67.73	69.18	68.06	75.73	70.49	69.25	69.65	68.52	69.33	69.46	13
14	69.47	69.19	67.74	69.03	68.03	72.29	72.29	68.86	69.63	68.38	68.99	69.32	14
15	69.48	69.41	67.79	68.88	68.00	69.34	70.32	68.63	69.60	68.24	68.84	69.47	15
16	69.21	68.83	67.76	68.75	67.98	68.83	69.65	68.67	69.61	68.28	68.63	69.52	16
17	68.84	68.41	67.74	68.67	67.96	68.46	69.27	68.72	69.48	68.24	68.68	70.10	17
18	68.77	68.22	67.72	68.62	67.95	68.27	69.06	68.72	69.46	68.24	68.87	70.21	18
19	68.60	68.15	67.71	68.53	67.94	68.18	68.93	68.63	69.41	68.18	68.74	70.06	19
20	68.40	68.07	67.72	68.47	67.90	68.10	68.81	68.55	69.36	68.27	68.55	69.26	20
21	68.26	68.00	67.72	68.49	67.90	68.08	68.77	68.71	69.33	68.42	68.83	69.22	21
22	68.19	67.95	67.85	68.54	67.89	68.07	68.74	68.73	69.28	68.38	68.61	69.05	22
23	68.15	67.92	70.12	68.46	67.88	68.25	68.73	68.90	69.40	68.35	68.50	69.04	23
24	68.21	67.87	79.90	68.43	67.87	68.31	69.05	69.33	69.45	68.30	68.66	68.95	24
25	68.24	67.80	80.67	69.19	67.86	68.44	68.96	69.28	69.44	68.32	68.69	69.13	25
26	68.23	67.76	72.61	69.04	67.85	68.58	68.69	68.58	69.40	68.47	68.62	69.10	26
27	68.15	67.79	75.90	68.67	67.85	69.06	68.34	68.48	69.78	69.21	68.52	69.48	27
28	68.14	67.80	74.89	68.47	67.84	69.45	68.61	68.71	69.73	69.10	68.68	69.67	28
29	69.23	67.78	74.61	68.33		69.14	68.38	68.57	69.47	69.17	68.71	69.71	29
30	69.44	67.78	72.04	68.25		69.04	68.53	68.58	69.26	69.16	68.84	69.41	30
31	68.66		71.42	68.20		68.91		68.57		69.20	68.67		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-25-64	0350	84.52	3-13-65	1430	79.60						
12-27-64	1540	78.95	4-11-65	1410	77.10						
1- 7-65	1320	83.15									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile below Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. Prior to March 1941, records available for a site 2.5 miles downstream. Station is operated under a cooperative agreement between the Department of Water Resources and the Modesto Irrigation District. Drainage area is 192.3 square miles.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	804120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.33	41.97	42.24	52.16	44.67	44.16	43.23	41.96	41.79	NR	41.41	41.34	1
2	41.34	41.94	42.38	51.74	44.38	44.17	42.47	41.91	41.92	NR	41.43	41.33	2
3	41.34	41.96	42.23	51.34	44.35	44.15	43.74	41.90	42.30	NR	41.43	41.33	3
4	41.34	41.97	42.26	51.12	44.33	43.37	44.34	41.86	42.32	NR	41.40	41.34	4
5	41.35	41.97	42.30	51.00	44.90	42.86	44.39	41.99	42.32	NR	41.39	41.38	5
6	41.33	41.99	42.12	51.25	45.99	42.76	43.76	42.34	42.22	NR	41.41	41.42	6
7	41.34	42.06	42.06	54.46	46.73	42.75	43.55	42.37	41.96	NR	41.40	41.41	7
8	41.34	42.03	42.24	53.30	46.79	43.34	43.58	42.33	41.94	NR	41.37	41.39	8
9	41.41	42.01	42.27	51.73	46.77	43.69	43.77	42.30	41.98	NR	41.37	41.38	9
10	41.44	42.10	42.25	51.53	46.80	42.98	45.17	42.29	NR	NR	41.35	41.61	10
11	41.44	42.26	42.28	51.89	45.91	42.11	47.00	42.02	NR	NR	41.42	41.42	11
12	41.46	42.31	42.31	51.98	45.58	41.84	47.55	41.83	NR	NR	41.59	41.42	12
13	41.44	42.36	42.21	51.79	45.58	42.59	47.99	41.86	NR	NR	41.59	41.42	13
14	41.44	42.46	42.10	50.68	45.55	42.10	NR	41.82	NR	NR	41.45	41.40	14
15	41.51	42.84	42.44	46.00	45.48	41.50	NR	41.81	NR	NR	41.39	41.42	15
16	41.46	42.56	42.52	44.52	44.64	41.59	NR	41.80	NR	NR	41.39	41.42	16
17	41.34	42.33	42.48	44.29	44.34	41.50	NR	41.81	NR	NR	41.37	41.50	17
18	41.32	42.21	42.46	44.14	44.31	41.53	NR	42.05	NR	NR	41.36	41.50	18
19	41.28	43.00	42.57	43.98	44.31	41.65	NR	42.27	NR	NR	41.34	41.50	19
20	41.27	43.31	42.50	43.89	44.28	41.60	NR	42.23	NR	41.31	41.34	41.39	20
21	41.25	43.29	42.37	43.90	44.23	41.43	NR	42.31	NR	41.33	41.34	41.56	21
22	41.24	43.19	42.62	43.95	44.13	41.39	44.91	42.36	NR	40.88	41.34	41.80	22
23	41.24	43.02	43.43	43.82	44.78	41.41	44.87	42.65	NR	41.47	41.32	41.84	23
24	41.24	42.89	49.60	43.77	45.42	41.39	44.78	42.93	NR	41.34	41.33	41.88	24
25	41.25	42.52	53.35	43.79	45.49	41.57	44.27	42.85	NR	41.31	41.36	42.00	25
26	41.26	42.42	51.05	45.30	45.00	41.71	44.00	42.33	NR	41.29	41.37	42.07	26
27	41.57	42.21	51.42	46.03	44.39	41.82	43.93	42.08	NR	41.24	41.35	42.08	27
28	41.92	42.16	51.75	45.24	44.22	41.66	43.18	41.99	NR	41.38	41.34	42.13	28
29	42.01	42.17	52.11	44.90		41.62	42.81	41.94	NR	41.37	41.33	42.24	29
30	42.01	42.18	51.94	44.84		41.69	42.22	41.84	NR	41.39	41.37	42.39	30
31	41.99		51.55	44.78		41.81		41.80		41.39	41.31		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	78- 84 91- 94	1940		[illegible].00	USCGS

Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published by the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23.64	25.65	26.48	37.82	31.27	30.28	26.58	26.85	25.87	27.88	24.49	24.10	1
2	23.65	25.58	26.84	37.91	31.14	30.24	27.07	26.62	25.82	27.75	24.51	24.15	2
3	23.64	25.54	26.73	37.60	30.90	30.21	29.10	26.48	26.90	26.31	24.50	24.12	3
4	23.64	25.59	26.60	37.35	30.75	29.75	30.20	26.39	27.22	26.10	24.41	24.11	4
5	23.58	25.59	26.73	37.16	30.96	29.21	30.14	26.40	27.29	25.88	24.40	24.17	5
6	23.67	25.60	26.47	36.98	31.98	29.04	30.10	27.44	27.30	25.83	24.37	24.27	6
7	23.66	25.68	26.10	38.25	32.79	28.80	29.62	27.75	26.51	25.72	24.44	24.27	7
8	23.67	25.83	26.28	39.12	33.08	29.28	29.76	27.71	26.19	25.70	24.30	24.25	8
9	23.70	25.70	26.63	38.30	33.17	30.05	29.83	27.61	26.21	25.66	24.32	24.24	9
10	23.79	25.84	26.59	38.40	33.17	29.98	31.01	27.65	26.48	25.51	24.22	24.24	10
11	23.85	26.28	26.62	38.71	32.50	28.21	32.66	27.26	26.47	25.45	24.36	24.29	11
12	23.87	26.52	26.70	38.73	31.85	27.28	34.00	26.40	26.50	25.59	24.70	24.28	12
13	23.90	26.58	26.58	38.53	31.75	27.30	34.56	26.25	28.04	26.55	24.91	24.31	13
14	23.96	26.93	26.24	38.04	31.75	28.22	35.33	26.18	29.81	26.00	24.69	24.25	14
15	24.00	28.03	26.65	39.79	31.78	26.14	35.87	26.08	28.97	25.50	24.38	24.21	15
16	24.19	27.78	27.28	33.54	31.40	25.80	36.26	25.95	28.11	25.43	24.42	24.28	16
17	23.94	27.09	27.25	32.41	30.93	25.79	35.52	26.00	29.27	25.09	24.29	24.41	17
18	23.69	26.61	27.16	31.85	30.80	25.73	34.37	26.21	29.16	24.76	24.27	24.50	18
19	23.57	28.34	27.38	31.49	30.69	25.81	34.09	27.11	27.68	24.50	24.20	24.45	19
20	23.48	28.95	27.36	31.14	30.63	25.69	33.84	27.13	26.49	24.31	24.23	24.43	20
21	23.44	28.96	27.15	30.71	30.55	25.41	32.88	27.25	26.26	24.29	24.25	NR	21
22	23.47	28.84	27.40	30.59	30.40	25.26	32.01	27.45	26.84	24.27	24.24	NR	22
23	23.47	28.60	28.38	30.47	30.71	25.19	31.53	27.90	28.68	24.51	24.15	NR	23
24	23.43	28.33	32.35	30.41	31.43	25.18	31.67	28.85	28.99	24.47	24.16	NR	24
25	23.42	27.53	37.26	30.46	31.62	25.23	31.53	28.81	29.09	24.31	24.19	NR	25
26	23.38	27.13	37.12	31.33	31.44	25.68	31.26	28.17	28.98	24.28	24.23	NR	26
27	23.61	26.61	36.85	32.73	30.64	25.84	30.97	26.98	28.89	24.31	24.21	NR	27
28	24.92	26.45	37.54	32.75	30.44	25.82	30.14	26.60	29.30	24.41	24.16	26.40	28
29	25.63	26.41	37.68	32.18		25.37	29.10	26.39	29.22	24.39	24.16	26.49	29
30	25.78	26.40	37.83	31.73		25.40	28.10	26.09	28.30	24.44	24.25	27.02	30
31	25.65		37.66	31.42		25.77		25.93		24.39	24.13		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-24-64	1800	37.70	3-13-65	1200	30.23	6-14-65	0800	30.04			
1- 8-65	0300	39.50	4-16-65	1200	36.32	7-13-65	1200	26.70			
1-27-65	1900	33.00	5-24-65	0600	28.81						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E		46.65	12-9-50	30-DATE			1959	0.00	USED
								1960		0.00	USCGS
								1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Records furnished by City of San Francisco.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	807040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	15.28	16.67	16.68	29.75	23.20	20.91	18.71	21.26	17.96	18.38	14.86	15.08	1
2	15.33	16.69	16.88	29.62	23.48	20.69	19.39	20.84	17.91	18.32	14.96	15.23	2
3	15.24	16.41	17.00	29.40	23.29	20.57	20.18	20.73	18.50	17.26	14.95	15.24	3
4	15.29	16.08	16.77	29.04	22.74	21.24	21.08	20.92	19.20	16.72	14.86	15.21	4
5	15.30	16.00	16.85	28.39	22.38	21.92	21.39	20.85	19.56	16.70	14.80	15.38	5
6	15.33	15.95	16.77	27.75	22.87	22.16	21.31	20.74	20.39	16.94	14.82	15.47	6
7	15.33	15.92	16.53	27.96	23.73	21.80	21.08	20.90	20.78	17.03	14.87	15.50	7
8	15.24	15.98	16.42	29.87	24.28	21.87	21.40	20.92	20.85	17.08	14.90	15.58	8
9	15.24	15.93	16.58	31.19	24.60	22.57	21.88	21.16	21.06	17.18	14.95	15.51	9
10	15.27	15.98	16.53	31.35	24.59	22.86	22.84	21.53	21.47	17.37	14.96	15.41	10
11	15.28	16.21	16.54	31.53	23.95	22.19	24.19	21.47	21.81	17.42	14.91	15.50	11
12	15.20	16.46	16.61	31.83	23.10	21.45	25.69	21.00	21.95	17.57	15.36	15.63	12
13	15.26	16.50	16.62	31.59	22.71	21.26	26.76	20.76	22.42	17.06	15.87	15.68	13
14	15.36	16.70	16.43	30.93	22.55	22.07	27.43	20.51	23.41	16.71	15.98	15.58	14
15	15.37	17.49	16.34	29.70	22.94	20.58	27.58	19.89	23.39	16.06	15.85	15.38	15
16	15.39	18.11	16.73	27.98	23.35	20.24	27.72	19.11	22.66	15.85	15.79	15.39	16
17	15.22	17.88	16.78	26.53	23.13	20.55	27.85	18.58	22.33	15.64	15.38	15.56	17
18	15.05	17.41	16.72	25.67	22.76	20.62	27.63	18.23	21.83	15.34	15.17	15.81	18
19	14.97	17.73	16.80	25.16	22.39	20.66	27.35	18.52	20.21	15.18	14.98	15.87	19
20	14.83	18.34	16.92	24.56	22.08	20.51	27.15	18.61	18.69	15.06	15.08	15.86	20
21	14.81	18.42	16.82	23.73	21.90	19.37	26.48	18.57	18.19	14.92	15.02	15.53	21
22	14.79	18.33	16.78	23.20	21.56	18.38	25.45	18.75	17.96	14.90	15.16	15.88	22
23	14.76	18.15	17.57	23.15	21.51	17.77	24.78	19.35	18.75	14.90	15.15	16.14	23
24	14.70	18.01	20.55	23.52	22.04	17.36	24.98	20.65	18.98	14.88	15.05	16.23	24
25	14.75	17.61	27.69	23.93	22.28	16.90	25.27	21.03	18.98	14.91	14.93	16.36	25
26	14.82	17.32	30.15	24.44	22.28	16.97	25.15	20.76	19.26	14.93	15.01	16.62	26
27	14.88	16.92	29.78	24.99	21.71	17.16	24.78	19.94	19.61	14.99	14.99	16.74	27
28	15.36	16.71	30.46	25.10	21.20	17.62	24.00	19.03	20.06	14.98	15.00	16.80	28
29	16.08	16.68	30.68	24.74		17.62	22.80	18.50	19.80	14.95	15.05	17.08	29
30	16.35	16.68	30.56	24.11		17.64	22.13	18.19	19.08	14.91	15.12	17.38	30
31	16.56		30.11	23.38		18.02		18.06		14.80	15.00		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-29-64	1110	30.69									
1-12-65	1140	31.86									
4-17-65	0840	27.89									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 28	121 13 37	SW29 3S 7E		39.8	12-9-50	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
							APR 52-DATE	1959		0.00	USCGS
								1959		3.41	USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.37	2.09	2.06	10.38	7.01	5.65	5.26	9.29	3.02E	3.05	1.50	1.49	1
2	1.38	2.13	2.14	9.58	6.97	5.65	5.58	8.92	4.65E	3.58	1.54	1.54	2
3	1.37	2.13	2.02	8.11	6.91	5.63	5.65	8.03	5.65	3.72	1.48	1.58	3
4	1.41	2.11	2.07	5.98	6.60	5.63	5.63	6.91	6.50	3.14	1.49	1.56	4
5	1.37	2.09	2.10	6.27	6.43	5.63	5.61	5.96	8.68	3.31	1.44	1.59	5
6	1.37	2.08	1.97	11.05	6.47	5.65	5.56	5.79	9.25	4.15	1.46	1.64	6
7	1.41	2.09	2.04	16.49	6.50	5.65	5.38	5.94	9.20	3.83	1.46	1.60	7
8	1.40	2.08	2.06	14.40	6.53	5.64	5.65	6.86	9.11	3.07	1.47	1.54	8
9	1.43	2.16	1.97	11.45	6.53	5.60	6.37	7.43	9.04	2.50	1.49	1.46	9
10	1.56	2.34	1.91	10.55	6.53	5.26	7.07	7.38	8.92	2.02	1.50	1.72	10
11	1.49	2.14	1.83	9.52	6.48	4.48	8.49	7.32	8.82	1.85	1.47	1.69	11
12	1.45	2.21	1.79	8.42	6.49	5.35	8.64	7.30	8.72	1.66	1.62	1.70	12
13	1.44	2.26	1.88	8.04	6.49	6.52	8.80	6.85	8.67	1.60	1.54	1.73	13
14	1.51	2.08	1.97	7.31	6.48	6.18	8.59	6.41	8.20	1.55	1.54	1.84	14
15	1.90	2.04	1.94	7.02	6.45	6.12	8.71	4.89	7.23	1.47	1.51	1.88	15
16	2.00	2.02	2.07	7.04	6.09	6.09	8.71	3.10	5.28	1.46	1.43	1.92	16
17	2.00	2.01	2.91	7.04	5.42	6.06	8.55	2.14	2.94	1.45	1.40	1.91	17
18	1.99	2.00	2.44	7.04	5.48	6.04	8.16	1.92	2.67	1.48	1.45	1.89	18
19	2.00	2.02	2.31	6.92	5.46	5.00	8.04	1.83	2.34	1.46	1.47	1.90	19
20	1.98	2.03	2.36	6.94	5.44	5.98	8.31	1.82	2.20	1.47	1.43	1.92	20
21	1.98	2.07	2.90	7.23	5.40	5.79	8.54	2.19	2.16	1.51	1.53	1.89	21
22	1.97	2.04	5.99	8.64	5.37	5.25	9.18	5.86	2.11	1.45	1.53	1.61	22
23	1.98	2.17	10.80	9.38	5.34	4.78	9.57	7.01	2.02	1.44	1.51	1.49	23
24	2.05	2.16	22.21	9.75	5.38	4.13	9.22	6.69	2.99	1.51	1.49	1.45	24
25	2.06	1.97	18.59	8.11	5.58	3.89	8.85	6.47	5.06	1.49	1.47	1.46	25
26	2.04	2.13	13.73	6.86	5.61	3.29	8.72	5.70	4.84	1.46	1.48	1.44	26
27	2.02	2.09	15.14	6.39	5.65	4.55	8.71	3.90	3.80	1.47	1.55	1.38	27
28	2.00	2.01	15.11	6.69	5.64	5.07	9.10	3.03	2.31	1.47	1.49	1.41	28
29	2.07	1.93	13.18	7.01		5.12	9.34	2.51	2.17	1.52	1.48	1.36	29
30	2.07	1.94	11.28	7.01		5.09	9.19	2.52	3.32	1.53	1.49	1.36	30
31	2.14		10.81	7.02		5.11		2.40		1.49	1.51		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-24-64	1710	26.36	3-12-65	2150	8.17						
1- 7-65	0630	16.96	4-23-65	0840	9.78						
1-22-65	1730	10.26	6- 5-65	1700	9.32						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	52000	30.05	11-21-50	JUN 28-DEC 39 APR 40-DATE				0.00	LOCAL

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. Equipped with radio telemeter.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1965	B03145	STANISLAUS RIVER AT [illegible]

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	72.70	73.58	73.29	83.45	79.44	77.95	77.41	81.53	74.49	75.74	72.99	72.95	1
2	72.68	73.51	73.74	82.65	79.40	77.95	77.76	81.40	76.36	75.69	73.[illegible]2	72.97	2
3	72.65	73.55	73.68	81.42	79.34	77.93	77.85	80.57	77.58	76.13	73.04	73.04	3
4	72.64	73.55	73.47	79.24	79.12	77.92	77.83	79.51	78.[illegible]3	75.65	72.95	73.08	4
5	72.71	73.54	73.67	78.69	78.81	77.90	77.80	78.39	80.[illegible]7	75.44	72.95	73.09	5
6	72.73	73.53	73.60	81.84	78.84	77.89	77.83	78.14	81.37	76.[illegible]	72.92	73.04	6
7	72.75	73.52	73.41	88.18	78.86	77.91	77.60	78.11	81.42	76.74	72.92	73.03	7
8	72.73	73.50	73.61	88.05	78.89	77.90	77.68	78.80	81.37	75.58	72.92	73.00	8
9	72.74	73.53	73.57	84.76	78.89	77.90	78.26	79.53	81.31	74.93	72.95	72.95	9
10	72.73	73.98	73.41	83.51	78.88	77.69	79.08	79.56	81.18	74.12	72.99	73.05	10
11	72.74	74.04	73.30	82.85	78.83	77.15	80.12	79.51	81.[illegible]	73.80	72.99	73.23	11
12	72.75	73.72	73.16	81.34	78.81	76.90	80.79	79.46	80.99	73.56	73.28	73.21	12
13	72.75	73.93	73.08	81.02	78.79	79.02	80.99	79.18	80.91	73.35	73.23	73.21	13
14	73.02	73.76	73.30	80.26	78.79	78.40	80.72	78.75	80.7[illegible]	73.25	73.12	73.26	14
15	73.09	73.50	73.38	79.82	78.77	78.34	80.79	77.82	79.83	73.18	73.14	73.40	15
16	73.28	73.41	73.35	79.76	78.68	78.30	80.82	76.22	78.32	73.15	73.09	73.45	16
17	73.35	73.39	74.37	79.72	77.86	78.26	80.78	74.57	76.11	73.10	72.97	73.51	17
18	73.32	73.36	74.41	79.68	77.90	78.23	80.37	74.12	75.24	73.17	72.98	73.48	18
19	73.33	73.33	74.11	79.61	77.88	78.21	80.09	73.92	74.74	73.10	72.99	73.53	19
20	73.34	73.35	74.11	79.51	77.86	78.17	80.44	73.86	74.38	73.02	73.02	73.62	20
21	73.32	73.38	74.07	79.64	77.82	78.07	80.46	73.84	74.30	73.06	73.02	73.63	21
22	73.33	73.42	77.37	80.41	77.81	77.61	81.12	76.69	74.17	73.06	73.05	73.51	22
23	73.33	73.37	81.27	82.16	77.76	77.25	81.90	78.99	74.01	73.03	73.04	73.19	23
24	73.36	73.86	91.89	81.37	77.72	76.59	81.58	78.97	74.[illegible]3	73.06	73.10	73.04	24
25	73.44	73.43	93.36	81.05	77.93	76.40	81.25	78.57	76.87	73.07	73.09	73.08	25
26	73.46	73.56	86.64	79.63	77.98	76.02	81.00	78.44	77.24	73.10	73.[illegible]7	73.07	26
27	73.42	73.63	87.51	79.01	77.99	76.38	80.88	76.69	76.46	73.08	73.07	73.03	27
28	73.44	73.53	87.93	79.09	77.97	77.31	81.08	75.75	75.24	73.10	73.02	73.00	28
29	73.63	73.42	86.58	79.49		77.33	81.69	74.86	74.15	73.08	73.03	73.05	29
30	73.60	73.30	84.42	79.46		77.35	81.46	74.74	75.09	72.99	73.02	73.05	30
31	73.52		83.73	79.45		77.35		74.72		73.02	72.98		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-24-64	2240	97.97	3-13-65	0450	79.82						
1- 7-65	1800	89.11	4-23-65	1430	82.04						
1-23-65	0540	82.44	6- 7-65	0630	81.45						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 44 31	120 56 21	SW24 2S 9E	85800	103.18	12-23-55	JUL 40-DATE		1940		0.00	USCGS

Station located at Burneyville Bridge, immediately north of Riverbank. Drainage area is 1,055 square miles.

TABLE B-1 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	37.19	37.66	37.56	54.22	48.03	44.82	44.55	51.93	40.11	41.17	37.63	37.57	1
2	37.24	37.65	37.55	53.77	47.99	44.82	44.72	52.01	40.79	40.94	37.47	37.52	2
3	37.06	37.62	37.88	52.90	47.89	44.81	45.28	51.56	43.47	41.60	37.52	37.65	3
4	37.04	37.63	37.80	50.43	47.68	44.80	45.47	50.09	44.89	41.78	37.45	37.92	4
5	36.98	37.64	37.66	47.30	47.09	44.80	45.44	47.80	46.73	41.20	37.36	37.82	5
6	37.01	37.62	37.81	48.06	46.87	44.80	45.68	46.45	49.82	41.39	37.39	37.99	6
7	37.00	37.62	37.72	54.23	46.88	44.79	45.49	46.17	51.21	42.22	37.52	37.90	7
8	37.13	37.63	37.61	57.56	46.90	44.78	45.09	46.61	51.49	41.65	37.87	37.78	8
9	37.19	37.66	37.74	56.07	46.92	44.91	45.89	48.12	51.57	40.64	37.77	37.90	9
10	37.13	37.74	37.69	54.60	46.91	44.89	47.49	48.81	51.58	39.79	37.51	37.81	10
11	37.21	38.43	37.59	53.91	46.82	44.01	48.77	48.69	51.36	39.30	37.42	37.74	11
12	37.05	38.40	37.48	52.84	46.76	43.05	50.71	48.57	51.16	38.90	37.95	37.82	12
13	37.01	38.28	37.38	51.61	46.73	45.76	51.38	48.50	51.06	38.67	38.18	37.86	13
14	37.03	38.32	37.32	50.54	46.71	46.26	51.45	47.52	51.02	38.40	38.10	37.80	14
15	37.24	38.00	37.48	49.31	46.67	45.81	51.12	46.59	50.25	38.22	37.96	37.78	15
16	37.30	37.78	37.51	48.78	46.61	45.71	51.11	44.27	48.35	38.00	37.98	37.85	16
17	37.56	37.67	37.52	48.64	45.60	45.61	51.14	42.15	44.90	37.96	37.54	38.22	17
18	37.49	37.63	38.59	48.55	45.00	45.52	50.90	40.59	42.14	38.18	37.50	38.23	18
19	37.43	37.59	38.56	48.50	44.93	45.49	50.28	40.07	41.45	38.08	37.61	38.25	19
20	37.42	37.58	38.40	48.22	44.84	45.41	50.25	39.88	40.82	37.83	37.62	38.41	20
21	37.41	37.58	38.37	48.21	44.76	45.35	50.51	39.63	40.57	37.75	37.57	38.47	21
22	37.38	37.60	39.11	48.83	44.66	44.88	50.92	40.52	40.11	37.70	37.58	38.13	22
23	37.39	37.62	44.14	51.18	44.57	44.20	51.86	45.87	39.72	37.67	37.52	38.02	23
24	37.40	37.60	51.86	52.05	44.43	43.30	52.33	47.44	39.64	37.56	37.42	37.74	24
25	37.44	38.05	60.80	51.51	44.60	42.43	52.12	46.90	41.25	37.59	37.47	37.91	25
26	37.49	37.70	57.56	49.10	44.80	42.02	51.63	46.83	43.87	37.65	37.65	38.05	26
27	37.48	37.80	56.85	48.01	44.84	41.77	51.28	44.88	43.53	37.69	37.56	38.25	27
28	37.49	37.81	57.32	47.29	44.86	43.40	51.27	42.56	42.33	37.65	37.53	37.92	28
29	37.64	37.73	57.02	47.81		43.77	51.77	41.28	40.34	37.63	37.68	38.06	29
30	37.89	37.63	55.70	48.11		43.87	52.08	40.51	39.99	37.51	37.73	37.96	30
31	37.75		54.62	48.07		43.94		40.37		37.49	37.48		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-25-64	0600	62.26									
12-28-64	1800	57.42									
1- 8-65	0600	57.66									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B &M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 43 50	121 06 35	SE29 2S 8E	62500	63.25	12-24-55	APR 40-DATE		1940		0.00	USGS

Station located 15 feet below the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	803115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	27.55	28.02	27.93	43.83	38.06	35.19	35.17	41.67	31.41	31.9[illegible]	28.5[illegible]	28.68	1
2	27.52	28.02	27.89	43.53	38.04	35.19	35.34	41.76	31.28	31.56	28.24	28.64	2
3	27.35	27.97	28.11	42.94	37.97	35.18	35.84	41.52	33.58	31.89	28.15	28.78	3
4	27.28	27.96	28.20	41.11	37.81	35.15	36.09	40.25	35.39	32.44	28.20	29.02	4
5	27.40	27.99	28.07	37.68	37.33	35.14	36.04	38.19	36.58	32.13	28.06	29.05	5
6	27.41	27.98	28.12	37.75	37.00	35.15	36.18	36.77	39.35	32.08	28.10	29.20	6
7	27.39	27.97	28.14	42.16	37.00	35.13	36.17	36.48	40.75	32.80	28.22	29.14	7
8	27.48	27.97	27.99	46.22	37.05	35.10	35.78	36.64	41.08	32.56	28.48	28.98	8
9	27.67	27.99	28.04	45.45	37.05	35.19	36.32	38.04	41.20	31.58	28.44	28.92	9
10	27.56	28.07	28.06	44.34	37.05	35.31	37.40	38.81	41.24	30.70	28.10	28.84	10
11	27.61	28.48	27.95	43.69	37.00	34.62	38.77	38.70	41.09	30.19	28.14	28.79	11
12	27.50	28.77	27.88	43.10	36.92	33.70	40.41	38.58	40.87	29.78	28.69	28.87	12
13	27.47	28.59	27.79	41.80	36.91	35.61	41.16	38.53	40.81	29.28	28.95	28.80	13
14	27.61	28.65	27.71	40.79	36.87	36.74	41.42	37.80	40.80	28.97	28.91	28.74	14
15	27.68	28.47	27.80	39.51	36.85	36.32	41.21	37.01	40.30	28.76	28.79	28.51	15
16	27.72	28.21	27.86	38.85	36.83	36.12	41.15	35.03	38.79	28.61	28.78	28.91	16
17	27.87	28.09	27.85	38.67	36.11	35.98	41.17	33.07	35.95	28.58	28.45	29.13	17
18	27.89	28.01	28.48	38.56	35.32	35.88	41.05	31.63	33.07	29.01	28.18	29.06	18
19	27.74	27.97	28.88	38.49	35.24	35.84	40.53	30.90	32.30	28.89	28.27	28.99	19
20	27.66	27.94	28.71	38.25	35.16	35.80	40.30	30.84	31.70	28.73	28.23	29.32	20
21	27.62	27.94	28.67	38.19	35.09	35.74	40.59	30.41	31.39	28.53	28.39	29.31	21
22	27.59	27.94	28.83	38.65	34.94	35.41	40.79	30.74	30.85	28.54	28.46	28.97	22
23	27.63	27.95	33.03	40.32	34.86	34.78	41.49	35.31	30.47	28.31	28.21	28.82	23
24	27.69	27.94	39.20	41.76	34.77	34.10	42.09	37.40	30.24	28.43	28.10	28.73	24
25	27.76	28.22	48.26	41.36	34.88	33.16	41.99	37.22	31.19	28.41	28.19	28.81	25
26	27.81	28.16	46.44	40.25	35.17	32.85	41.59	37.07	34.19	28.35	28.27	29.05	26
27	27.81	28.08	45.71	38.20	35.22	32.59	41.20	35.74	34.29	28.27	28.22	29.22	27
28	27.83	28.16	46.09	37.37	35.22	33.93	41.08	33.44	33.31	28.17	28.15	28.95	28
29	27.92	28.10	45.95	37.76		34.41	41.39	32.29	31.34	28.32	28.37	28.99	29
30	28.12	28.01	45.22	38.11		34.54	41.78	31.46	30.59	28.12	28.86	28.88	30
31	28.14		44.30	38.10		34.61		31.25		28.31	28.70		31

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-25-64	0710	49.81E	4-24-65	1200	42.14						
1- 8-65	1000	46.32	6- 9-65	2400	41.31						
1-24-65	0920	41.87									

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E				OCT 62-DATE	MAR 50-SEP 62	1950	1951	0.00	USED
								1951		0.00	USED
								1951		3.60	USCGS

Station located on left bank 9.35 miles above mouth 0.6 mile northwest of Bacon and Gates road junction, 3.7 miles southwest of Ripon.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B03105	STANISLAUS RIVER NEAR MOUTH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	15.52	16.15	16.03										1
2	15.53	16.14	16.04										2
3	15.28	16.08	16.12										3
4	15.11	16.01	16.17										4
5	15.04	16.01	16.15										5
6	15.09	15.98	16.12										6
7	15.19	15.97	16.10										7
8	15.20	15.99	16.01										8
9	15.34	15.99	16.03										9
10	15.53	16.04											10
11	15.72	16.20											11
12	15.69	16.57											12
13	15.66	16.50											13
14	15.77	16.54											14
15	15.76	16.66			STATION DISCONTINUED AS OF								15
16	15.75	16.85			12-10-64								16
17	15.62	16.71											17
18	15.83	16.41											18
19	15.38	16.45											19
20	15.11	16.82											20
21	15.06	16.91											21
22	15.17	16.87											22
23	15.28	16.76											23
24	15.46	16.65											24
25	15.54	16.50											25
26	15.58	16.37											26
27	15.55	16.16											27
28	15.80	16.17											28
29	15.97	16.14											29
30	16.08	16.08											30
31	16.19												31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 40 33	121 13 18	NE17 3S 7E				SEP 51-SEP 62	OCT 62-DEC 64	1951	1959	1.11	USCGS
								1959		0.00	USCGS

Station located 1.9 miles above mouth, 7 miles southwest of Ripon. Backwater from San Joaquin River at times affects the stage-discharge relationship. Prior records available at other sites. Drainage area is 1,091 square miles. Station discontinued as of 12-10-64. Altitude of gage is approximately 25 feet (from U. S. Geological Survey topographic map).

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.56	12.99	13.01	26.55	20.18	17.88	15.97	NR	14.80	15.27	11.47	11.62	1
2	11.69	13.02	13.15	26.35	20.41	17.68	16.53	NR	14.76	15.25	11.50	11.83	2
3	11.58	12.86	13.30	26.14	20.29	17.56	17.23	18.46	15.34	14.60	11.45	11.86	3
4	11.52	12.48	13.11	25.74	19.84	17.99	18.03	18.51	16.28	14.38	11.37	11.88	4
5	11.56	12.37	13.17	24.97	19.48	18.67	18.34	18.29	16.74	14.47	11.27	12.08	5
6	11.60	12.32	13.14	24.28	19.67	18.92	18.33	17.93	17.69	14.25	11.32	12.29	6
7	11.63	12.28	12.93	24.49	20.38	18.70	18.15	18.00	18.36	14.19	11.41	12.27	7
8	11.54	12.33	12.77	26.54	20.92	18.63	18.22	18.02	18.46	14.21	11.56	12.40	8
9	11.56	12.30	12.91	27.93	21.24	19.19	18.69	NR	18.53	14.04	11.62	12.25	9
10	11.60	12.32	12.91	28.01	21.34	19.54	19.51	18.80	18.77	13.84	11.50	12.17	10
11	11.68	12.54	12.86	28.01	20.83	19.04	20.81	18.81	18.13	13.73	11.96	12.21	11
12	11.62	12.85	12.92	28.23	20.05	18.24	22.24	18.44	19.29	13.48	12.00	12.35	12
13	11.62	12.91	12.95	28.04	19.66	18.03	23.35	18.22	19.60	13.48	12.65	12.42	13
14	11.72	13.04	12.78	27.49	19.48	19.07	24.04	17.97	20.55	13.49	12.80	12.26	14
15	11.77	13.57	12.61	26.47	19.70	17.93	24.24	17.37	20.68	NR	12.69	11.99	15
16	11.78	14.27	12.98	24.94	20.12	17.42	24.32	16.54	19.97	NR	12.56	12.01	16
17	11.46	14.20	13.10	23.53	19.96	17.65	24.44	15.79	19.28	NR	12.06	12.26	17
18	11.48	13.78	13.09	22.62	19.54	17.72	24.33	15.22	18.65	NR	11.76	12.57	18
19	11.34	13.85	13.24	22.09	19.21	17.76	24.06	15.26	17.22	11.78	11.53	12.58	19
20	11.12	14.49	13.36	21.57	18.90	17.68	23.85	15.36	15.76	11.73	11.58	12.69	20
21	11.05	14.62	13.29	20.80	18.70	16.83	23.46	15.26	15.13	11.58	11.54	12.39	21
22	11.06	14.55	13.21	20.32	18.41	15.94	22.56	15.41	14.75	11.51	11.72	12.61	22
23	11.03	14.40	14.04	20.34	18.27	15.36	21.95	NR	15.20	11.55	11.77	12.85	23
24	11.04	14.26	16.64	20.80	18.69	14.95	22.07	17.74	15.49	11.53	11.57	12.88	24
25	11.08	13.96	23.91	21.14	18.95	14.43	22.38	NR	15.52	11.60	11.51	13.02	25
26	11.15	13.66	27.28	21.51	18.98	14.37	22.27	17.96	16.02	11.58	11.55	13.36	26
27	11.19	13.32	26.80	21.81	18.61	14.41	21.91	17.35	16.47	11.60	11.66	13.53	27
28	11.58	13.11	27.38	21.86	18.14	14.92	21.30	16.24	16.81	11.58	11.53	13.50	28
29	12.31	13.05	27.64	21.59		15.15	20.30	15.54	16.55	11.56	11.64	13.69	29
30	12.63	13.05	27.50	21.12		15.14	19.82	15.14	15.83	11.49	11.77	13.93	30
31	12.85		27.01	20.45		15.43		14.97		11.41	11.67		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-12-65	1300	28.27									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 40 34	121 15 51		79000	27.75	12-9-50	JUL 22-DEC 23		1931		8.4	USED
						JAN 24-FEB 25					
						JUN 25-OCT 28			1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located 30 feet above the Durham Ferry Highway Bridge, 3 miles below the Stanislaus River, 3.4 miles northeast of Vernalis. Records furnished by U. S. Geological Survey. Drainage area is approximately 14,010 square miles. This station equipped with DWR radio telemeter.

TABLE B-12

DAILY CONTENT

(IN THOUSANDS OF ACRE-FEET)

WATER YEAR	STATION NO.	STATION NAME
1965	B71100	MILLERTON LAKE AT FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	171.1	163.5	202.2	310.8	420.8	335.5	272.5	390.9	369.2	410.9	326.8	212.3	1
2	170.7	164.2	203.6	316.4	417.8	331.8	274.7	392.4	371.0	409.6	323.4	210.4	2
3	169.6	164.9	204.7	322.2	414.6	327.8	276.9	393.5	370.9	409.6	319.5	209.2	3
4	168.4	165.5	206.3	328.4	411.6	325.0	278.9	394.2	372.3	409.4	315.2	208.4	4
5	167.8	166.0	207.5	337.9	408.9	321.5	281.0	394.5	377.3	409.1	310.9	207.7	5
6	167.2	166.5	209.0	349.5	406.8	317.0	283.9	394.9	383.4	408.2	306.9	206.6	6
7	166.5	167.1	210.3	361.8	404.3	312.3	287.0	395.5	386.4	407.2	303.3	205.6	7
8	165.8	167.8	211.1	369.6	401.4	307.6	291.3	396.2	393.7	406.0	299.1	204.0	8
9	165.4	169.0	212.3	375.2	398.9	303.2	297.6	396.6	396.5	404.3	294.6	201.1	9
10	164.7	171.1	213.1	380.6	396.3	299.0	305.4	396.8	398.8	402.4	290.0	197.8	10
11	163.6	171.9	214.1	385.2	393.6	294.5	312.3	396.5	404.0	399.9	285.4	194.6	11
12	163.0	174.7	215.5	391.1	390.7	290.8	318.4	395.9	410.1	396.9	281.4	191.4	12
13	162.3	177.8	217.0	397.2	387.5	287.4	324.8	394.8	415.4	393.9	278.1	188.2	13
14	161.2	178.9	217.8	403.2	384.6	283.5	330.9	393.5	418.1	389.7	275.1	185.3	14
15	160.7	180.0	219.1	409.0	381.1	280.0	337.0	391.9	419.9	385.6	271.3	182.9	15
16	160.2	180.8	219.8	414.9	378.1	276.2	342.5	389.7	420.1	382.5	267.5	181.0	16
17	159.8	182.9	221.0	421.0	375.1	272.9	347.6	387.6	419.6	379.6	263.8	179.3	17
18	159.3	183.8	222.1	427.1	372.2	270.7	352.1	385.1	418.9	376.4	260.9	177.0	18
19	158.9	185.2	223.3	433.1	369.2	269.3	356.2	382.3	417.9	373.2	257.2	175.3	19
20	158.4	186.8	226.0	438.9	366.1	269.1	360.6	379.6	418.2	369.7	253.9	173.9	20
21	158.9	188.0	228.1	443.7	363.3	269.0	364.5	377.1	419.9	366.4	250.8	173.6	21
22	158.9	189.4	230.5	445.3	359.7	266.8	368.2	374.7	421.5	363.0	247.2	173.5	22
23	159.3	191.0	241.7	445.7	355.9	268.2	371.8	372.2	422.3	359.2	243.4	173.5	23
24	159.6	192.6	254.4	445.5	352.7	267.5	374.9	369.8	421.7	355.9	239.5	173.6	24
25	159.0	194.1	263.[illegible]	443.3	349.2	267.0	377.5	367.4	420.8	352.3	235.8	173.1	25
26	159.1	195.6	269.4	440.5	345.8	267.0	380.5	365.1	419.2	348.6	231.6	171.8	26
27	159.6	197.3	280.4	437.7	342.4	267.1	383.1	364.1	417.2	344.7	228.0	170.2	27
28	160.1	198.8	287.5	434.9	338.9	266.9	385.1	363.3	415.4	340.7	224.7	169.0	28
29	161.0	199.7	292.6	431.9		267.8	387.0	362.4	413.8	336.6	221.4	167.7	29
30	162.1	201.0	298.3	427.8		268.6	388.9	362.0	412.2	333.0	217.8	166.1	30
31	163.0		304.9	423.6		270.8		365.3		329.8	214.4		31
Monthly Change	-9.3	+ 38.0	+103.9	+118.7	- 84.7	- 68.1	+118.1	- 23.6	+ 46.9	- 82.4	-115.4	- 48.3	

E — ESTIMATED
NR — NO RECORD

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B &M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 00 00	119 42 10	SW 5 11S 21E				OCT 41-DATE		1941		0.00	USCGS

Station located near center of Friant Dam on San Joaquin River, immediately above Cottonwood Creek, 0.9 mile northeast of Friant. Usable capacity, 503,000 acre-feet between elevations 375.4 and 578.0 feet above mean sea level. Not available for release, 17,400 acre-feet. Records furnished by U. S. Bureau of Reclamation. Drainage area is 1,633 square miles.

TABLE B-13

REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
Page	Mile & Bank	Name		From	To
		Bulletin 23-62 Surface Water Flow for 1962			
149		Table 135, Burns Creek at Hornitos	Maximum Discharge 1962 water year	4340E	9200E
			Maximum Discharge of record	4340E	9200E
188		Table 174, Tule River below Porterville	Daily Mean Discharge		
			May 4	365	450
			May 5	416	450
			Monthly acre-feet	25720	25960
			Water year total	84130	84370
		Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley			
B-31		Table B-21, Burns Creek at Hornitos	Maximum Discharge 1963 water year	1340E	2000E
			Maximum Discharge of record	4340E	9200E
		Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley			
66		Table B-4, Big Creek Diversion near Fish Camp	Daily Mean Discharge		
			Jan. 13	10	5.5E
			Jan. 14	14	6.5E
			Jan. 15	18	5.0E
			Jan. 16	22	5.0E
			Jan. 17	21	8.0E
			Jan. 18	30	3.5E
			Jan. 19	23	3.5E
			Jan. 20	6.6	3.5E
			Jan. 21	5.3	10E
			Jan. 22	22	5.0E
			Jan. 23	51	7.0E
			Jan. 24	56	8.5E
			Jan. 25	54	8.5E
			Jan. 26	48	12E
			Jan. 27	40	9.5E
			Jan. 28	41	10E
			Jan. 29	41	10E
			Jan. 30	35	10E
			Jan. 31	24	8.0E
			Monthly acre-feet	1276	437E
			Water year total	8722	7883
80		Table B-4, Burns Creek at Hornitos	Maximum Discharge 1964 water year	222	205
			Maximum Discharge of record	4340E	9200E
145	186.6L	Table B-6, San Luis Canal Company	Diversions--Nov.	3486	3489
			Sept.	18828	15828
145	(0.4L)	Table B-6, Firebaugh Canal Company	Diversions--Oct.	835	1720
			Nov.	117	89
			Dec.	20	12
			Jan.	0	389
			Feb.	1722	2993
			Mar.	9956	4965
			Apr.	11748	9556
			May	13440	11450
			June	14231	12228
			July	13765	15043
			Aug.	5946	14251
			Sept.	1203	5472
			Total	72983	78168
145		Table B-6, James Irrigation District	Diversions--Total	4855	48550
146	264.08L	Table B-6, H. W. Ball	Diversions--June	36	13
			July	103	36
			Aug.	110	38
			Sept.	80	27
			Total	329	114
			Total Diversions--Oct.	252	256
			Mar.	567	572
			Apr.	968	1012
			May	1114	1130
			June	1738	1753
			July	2710	2695
			Aug.	2390	2360
			Sept.	1240	1192
			Total	11230	11220

APPENDIX C

GROUND WATER MEASUREMENTS

APPENDIX C. GROUND WATER MEASUREMENTS

Introduction

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years.

Because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 800 wells for reporting purposes.

This appendix presents ground water measurement data on these 800 wells for the period July 1, 1964, through June 30, 1965. These 800 wells were selected as representative wells of all the wells measured in the area and are designated as selected wells. They were selected on the basis of a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer or in a zone of shallow depth, and availability of a log, mineral analyses, and production record. The area for which ground water level measurements of selected wells are made is designated as area IV on page iii.

Table C-1 presents the average change in ground water levels, spring 1964 to spring 1965. The average change in water level for each district or area was determined where possible by planimetering ground water contour maps by using all the spring measurements. In areas where insufficient data were available to define reliable contours, a numerical average was made using actual well measurements.

Table C-2 presents the change in average ground water levels from 1921 to 1951 and 1951 to 1965 in 18 ground water areas in the San Joaquin Valley.

Table C-3 presents ground water levels at wells. This table also shows other data, including the district or area where a well is located, well location within the district or area, date of measurement, water surface elevation, depth from ground surface, and the code number for the agency supplying the data.

Hydrographs of selected areas are shown in Figure C-1.

Hydrographs of selected wells are shown in Figure C-2.

Shown on Plate 5 are the districts or areas with a ground water level change of five feet or more in the unconfined or semiconfined aquifers. Plate 6 shows the area or districts with a change of five feet or more in the confined or pressure aquifers. Plate 7 shows the location of selected wells.

A profile of the ground water level in 19 areas for the years 1921, 1951, 1964, and 1965 and the locations of the 18 areas are shown on Plate 8.

Lines of equal elevation of water in wells for spring 1965, for both the unconfined and confined aquifers, are shown on Plate 9.

Measurement Techniques

Definitions

Free ground water is water in the interconnected interstices in the zone of saturation down to the impervious barrier, moving under the control of the water table slope.

Water table is the upper surface of the body of free water which completely fills all openings in the material sufficiently pervious to permit percolation. On fractured impervious rocks and in solution openings, it is the surface at the contact between the water body in the openings and the overlying ground air.

Confined ground water is a body of ground water overlain by material sufficiently impervious to sever free hydraulic connections with overlying ground water except at the intake. Confined water moves in conduits under pressure due to difference in head between intake and discharge areas of the confined water body.

Semiconfined ground water occurs when the vertical permeability is less than the horizontal permeability so that differences in head occur between aquifers during the periods of heavy pumping, but during periods of little draft, the water level recovers to a level coincident with the water table. These aquifers are subject to pressure effects for short periods, but the artesian head adjusts to equilibrium with the water table over long periods of time.

Pressure surface or piezometric surface is the level to which the water will rise in wells penetrating a confined aquifer.

Perched ground water is ground water occurring in a saturated zone separated from the main body of ground water by unsaturated material.

Methods and Procedures

The depth to water in most wells is usually determined by a direct measurement made with a steel tape; however, in some wells, especially deep ones, measurements are made by use of an electric well sounder, or where access is impossible for use of a tape or electric well sounder, an airline measurement is made by use of a pressure gage.

The Department of Water Resources strives to obtain complete coverage of ground water levels throughout the San Joaquin Valley in the spring of each year. This is done through cooperative efforts of the many local and governmental agencies in the area. The Department measures wells only in those areas which are outside the limits or jurisdiction of any other agency, or to assist in areas where the time element might be a factor, such as anticipated heavy pumping which would have considerable effect on ground water levels.

Ground water level measurements are exchanged among the various agencies, and the Department obtains a copy of all measurements made. These spring measurements are used to prepare a ground water elevation map of the area where sufficient data are available to do so.

Accuracy

Ground water occurs under confined and unconfined conditions in the San Joaquin Valley. In much of the western, central, and southeastern parts of the Valley, three distinct ground water reservoirs are present. This condition presents many problems as to accuracy of ground water level data being collected, as some wells tap only a single aquifer while others are perforated so as to draw water from two or more aquifers.

Coding and Numbering System

Explanation of Headings and Symbols Used in Appendix C

State well numbers used in this report are based on the township, range, and section subdivision of the Public Land Survey. They conform to the system used in all ground water investigations and for numbering of wells for which data are published or filed by the Department of Water Resources. In this report the number, which is assigned to a well in accordance with this system, is referred to as the "state well number".

Under the system, each 640-acre section is divided into 40-acre tracts lettered as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Wells are numbered within each 40-acre tract according to the chronological sequence in which they have been assigned state well numbers. For example, a well which has the number 16S/15E-17K1 M would be in Township 16 South, Range 15 East, Section 17, M.D.B. & M., and would be further located as the first well assigned a state well number in Tract K. In this report, well numbers are referenced to the Mount Diablo Base and Meridian (M) or the San Bernardino Base and Meridian (S).

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) as determined from U.S.G.S. topographic maps.

Date is the date the depth measurement was made.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well. Certain of the depth measurements in the column may be followed with an asterisk superscript to indicate a questionable measurement. Depth to ground water measurements may be questionable for such reasons as: (a) well being pumped while undergoing measurement, (b) nearby pump in operation, (c) existence of a leaking or wet casing, (d) well having been pumped recently, (e) possible air gage measurement error, (f) recharge operation at well or nearby. The specific reason for any asterisk on any given measurement may be obtained from the San Joaquin District Office of the Department of Water Resources.

Other code symbols used in this column are as follows:

□ No measurement

\# Measurement discontinued

@ Well has been destroyed

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

The word DISCONTINUED indicates records from this well will no longer be published.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

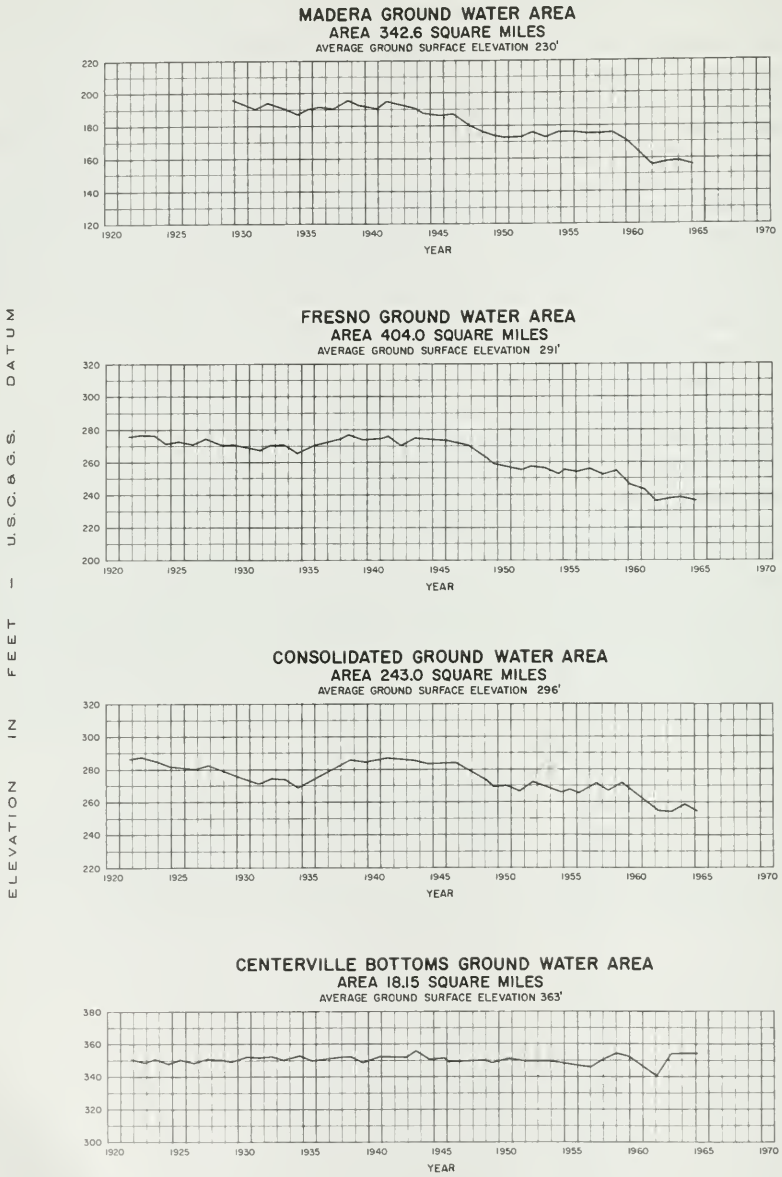
Agency supplying data represents the code numbers for the agencies supplying water level data. The agency code consists of a five-digit number, the first digit represents the region number. Thus, 54200 refers to agency 4200 in Region 5. Because of the limitations of punch-card space, the agency code has been shown as a four-digit number without the region number.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

Agency Code	Agency
4200	City of Fresno
4520	Oakdale Irrigation District
4521	Modesto Irrigation District
4524	Turlock Irrigation District
4525	Merced Irrigation District
4636	Consolidated Irrigation District
4637	Alta Irrigation District
4640	Buena Vista Water Storage District
5000	U. S. Geological Survey
5050	Department of Water Resources
5120	Kern County Surveyor
5529	Poso Soil Conservation District
5631	Fresno Irrigation District
6001*	U. S. Bureau of Reclamation
7518	South San Joaquin Irrigation District
8700	Kern County Land Company

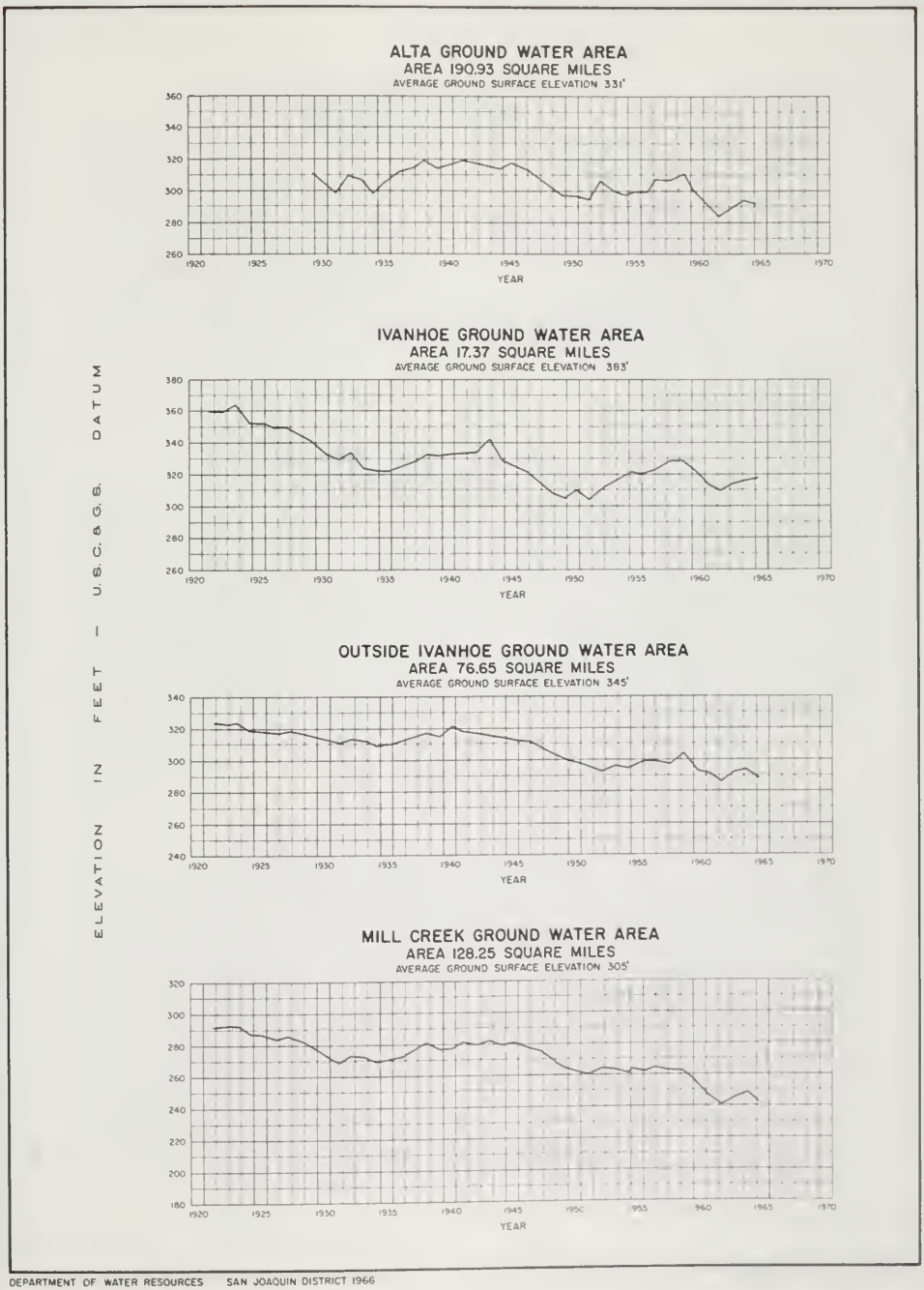
*A large amount of data listed under this agency code has been gathered by irrigation and water districts and compiled by the Bureau of Reclamation for transmittal to the Department of Water Resources.

Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



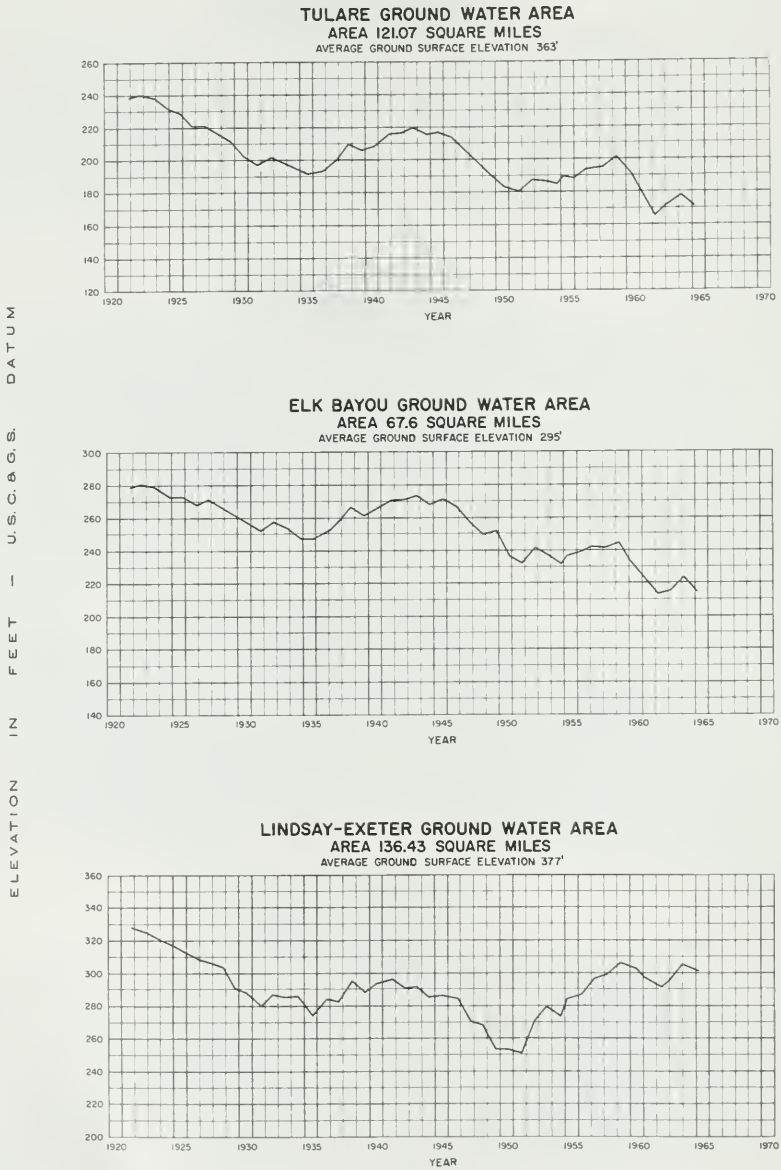
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



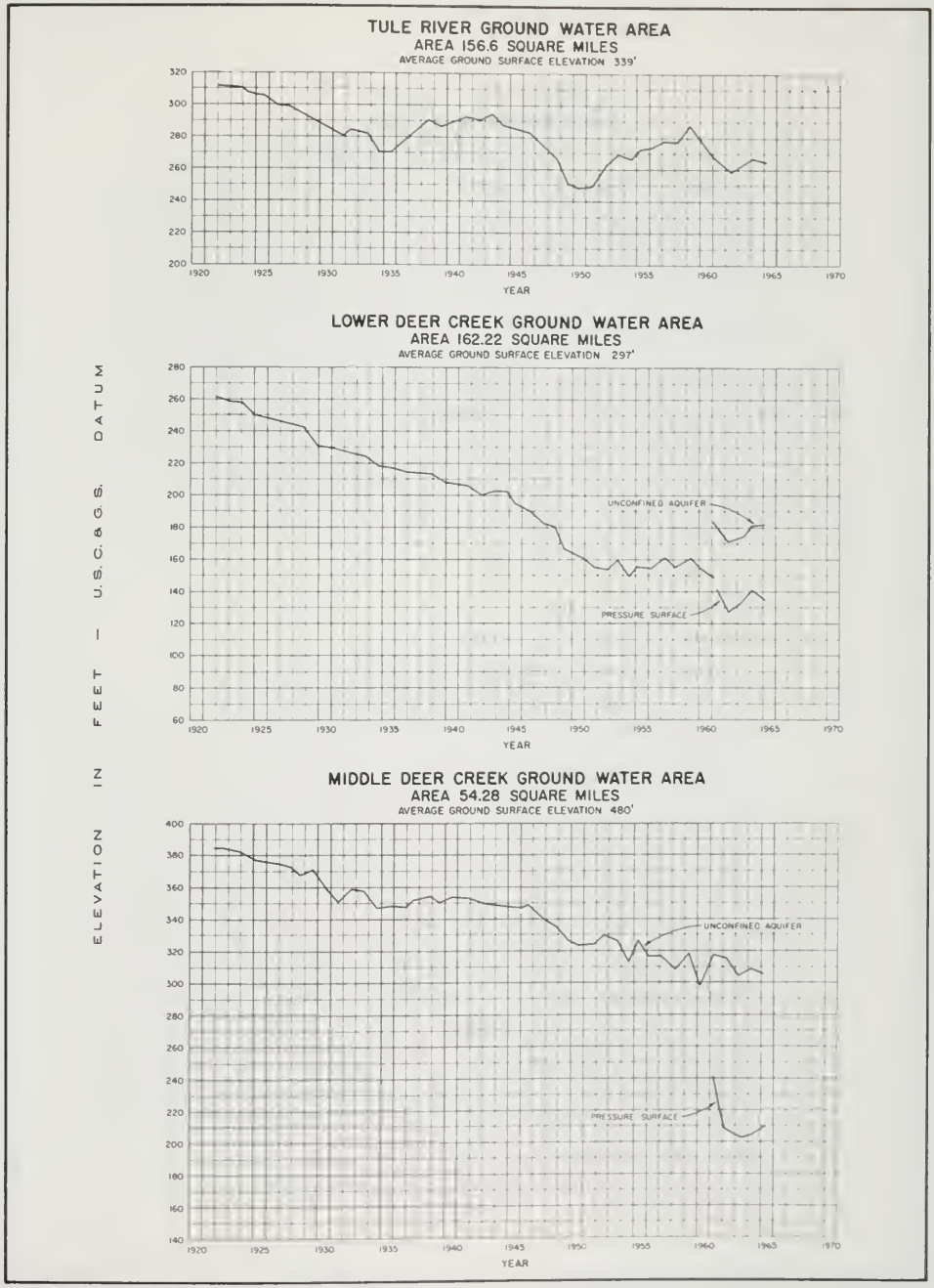
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



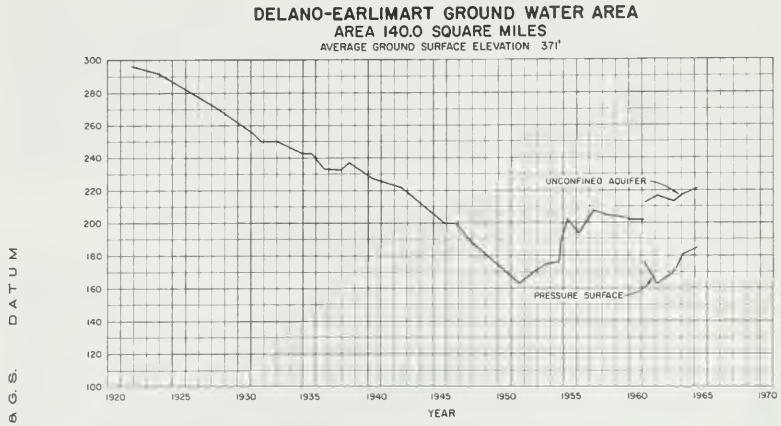
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

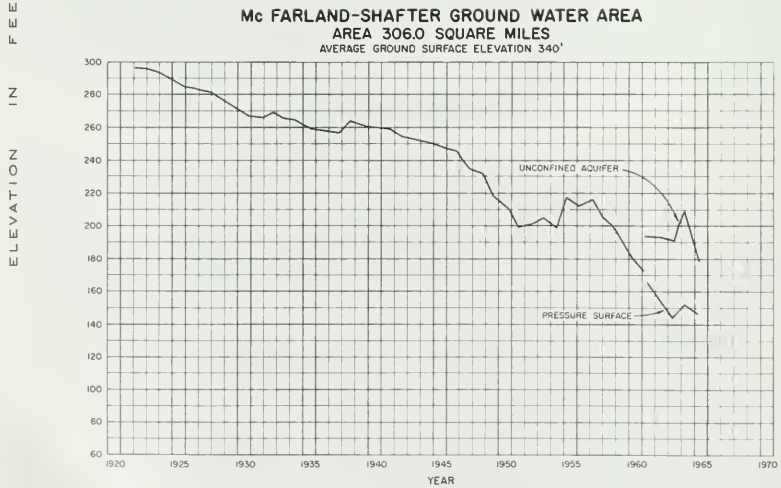
Figure C-I (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

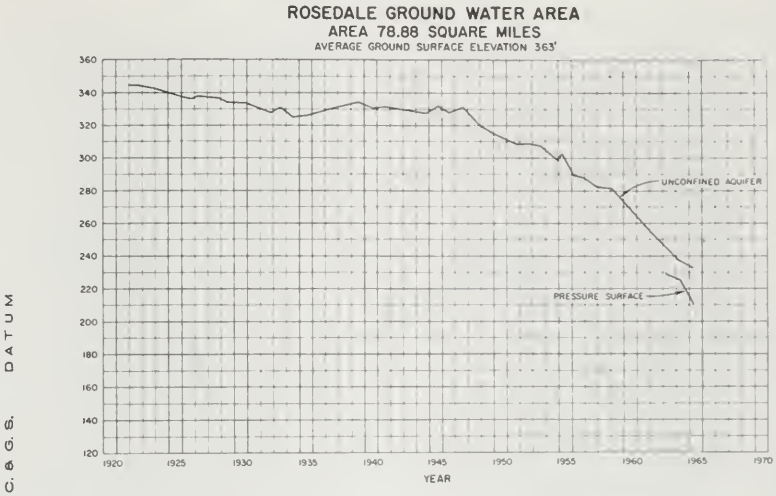


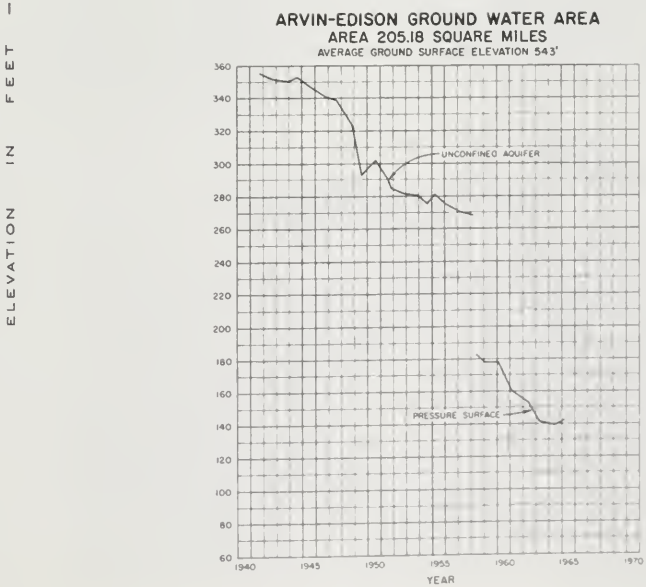


ELEVATION IN FEET — U.S.C.&G.S. DATUM

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-I (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

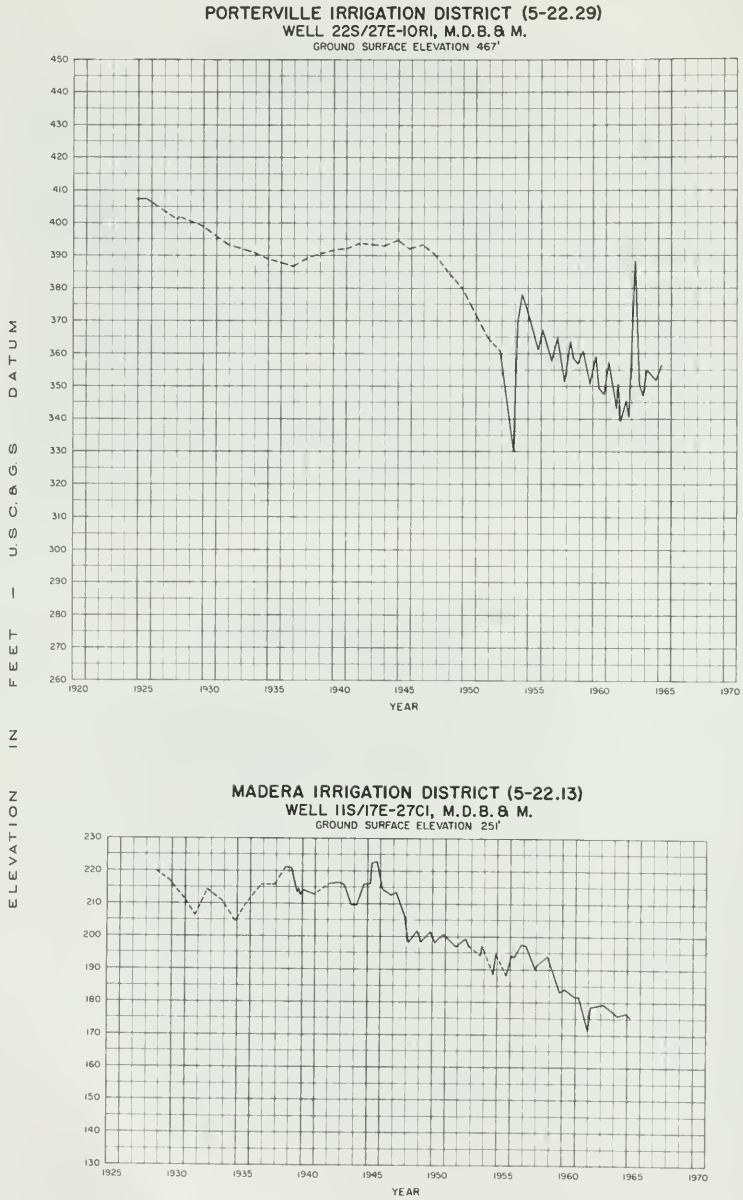




ELEVATION IN FEET — U.S.C.&G.S. DATUM

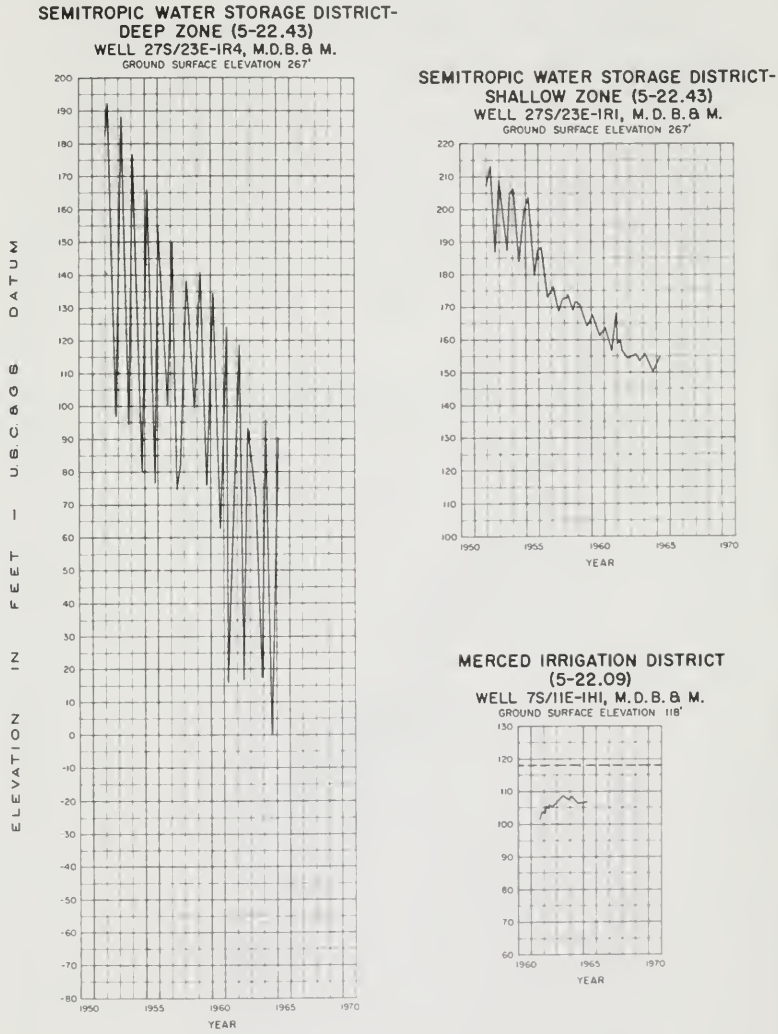
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



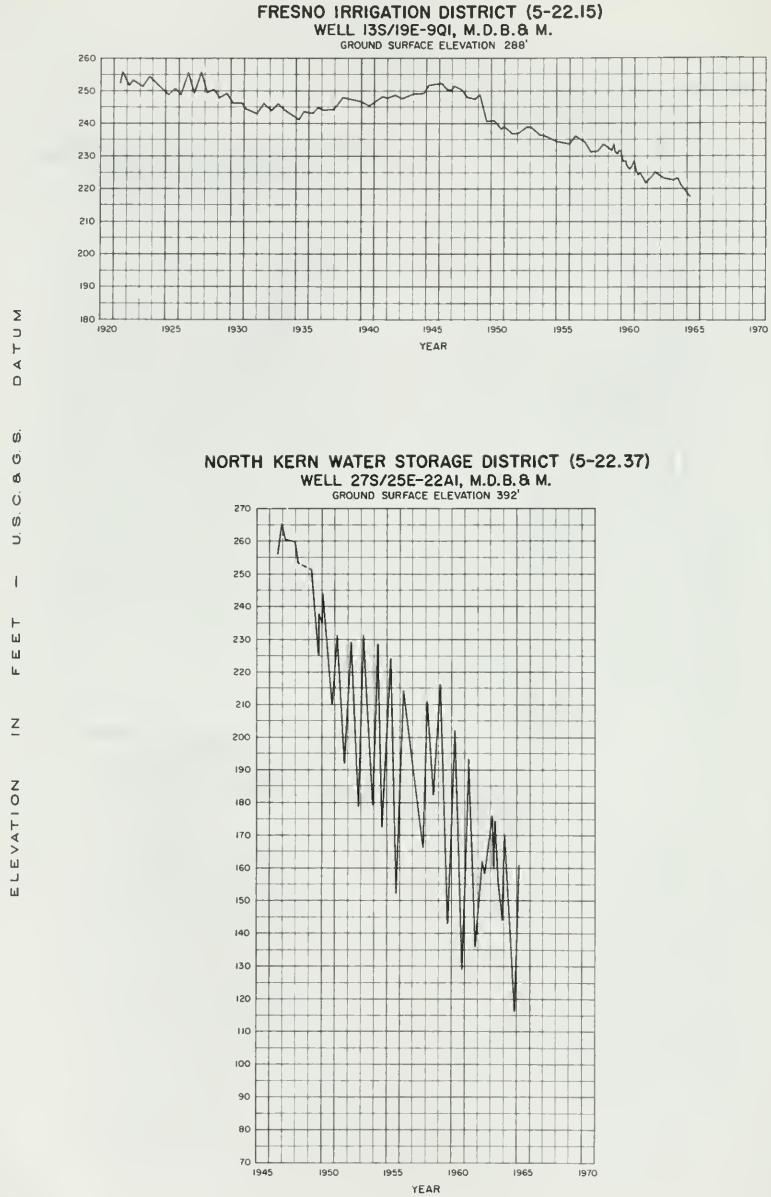
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



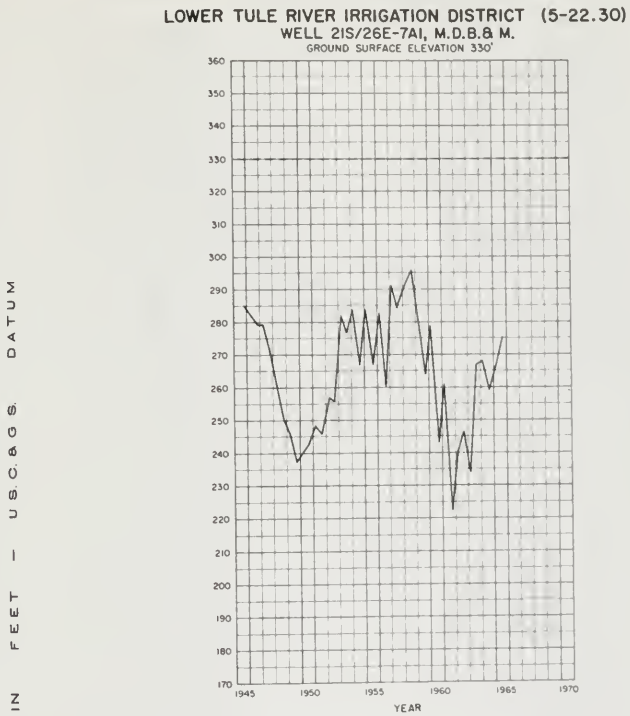
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

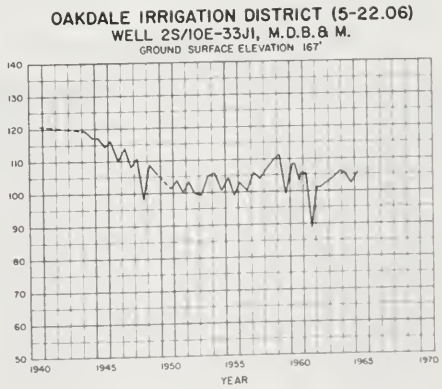
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

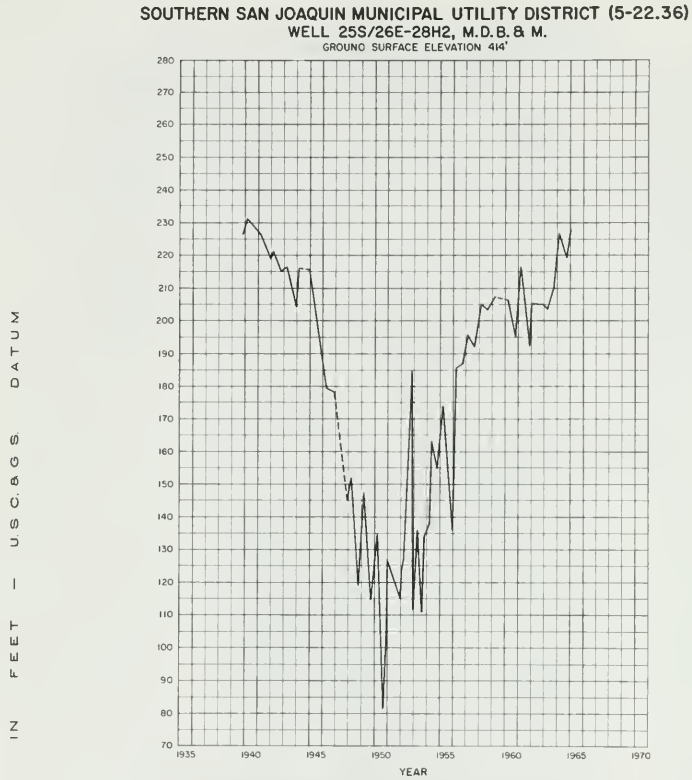
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

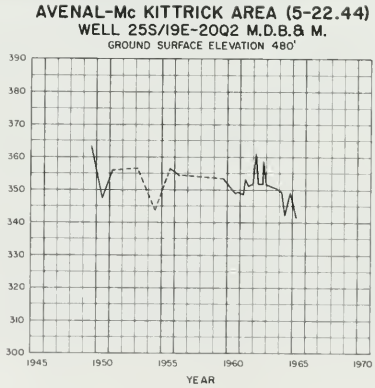




DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

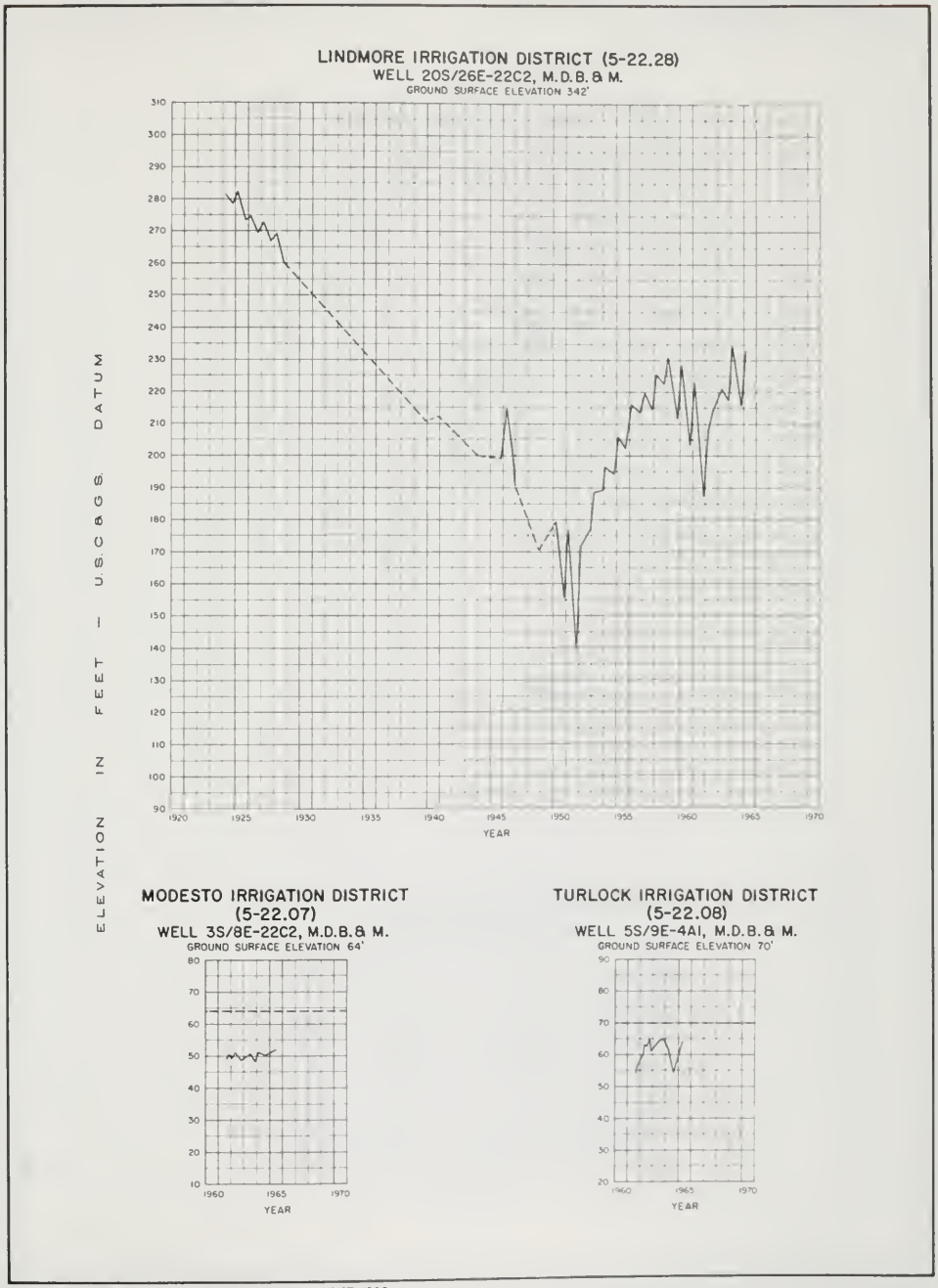
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS





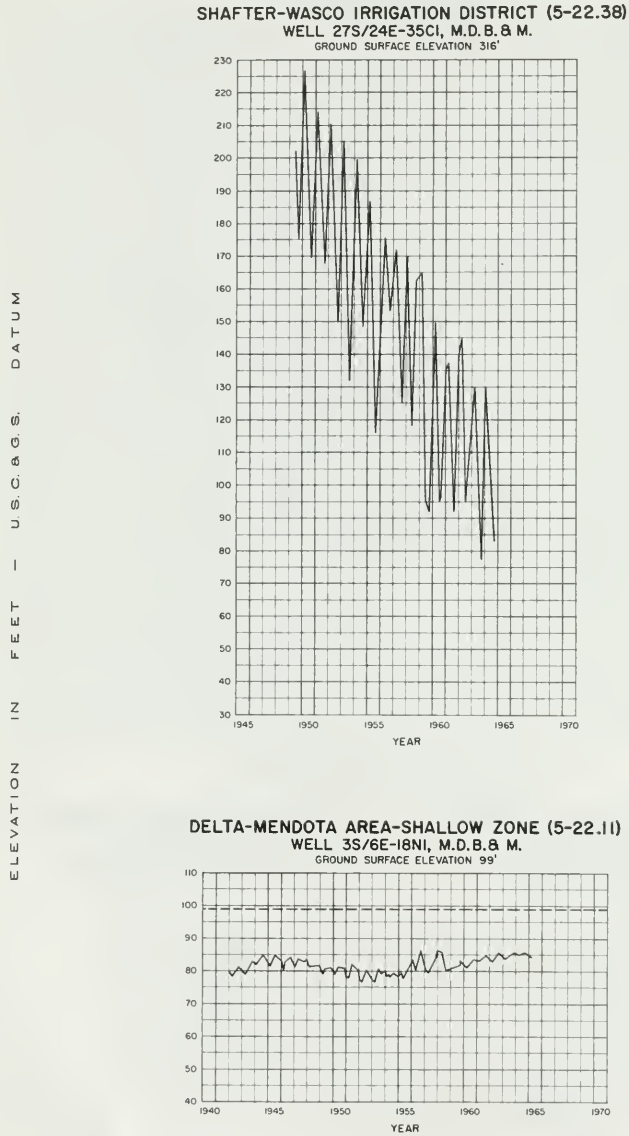
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



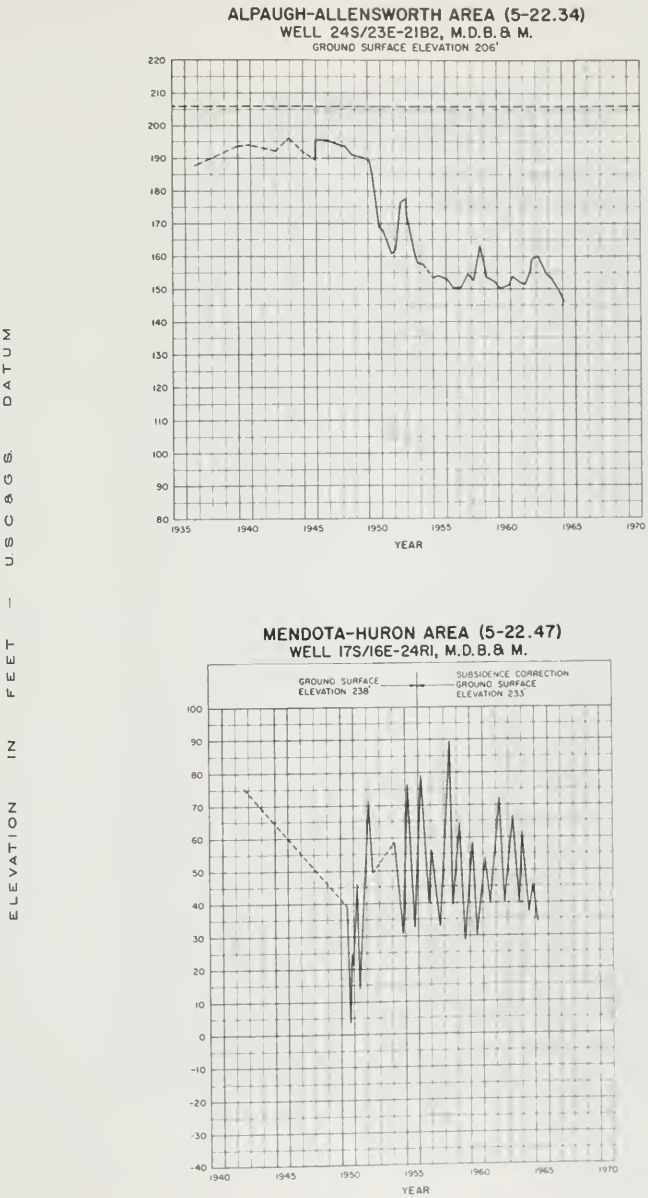
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



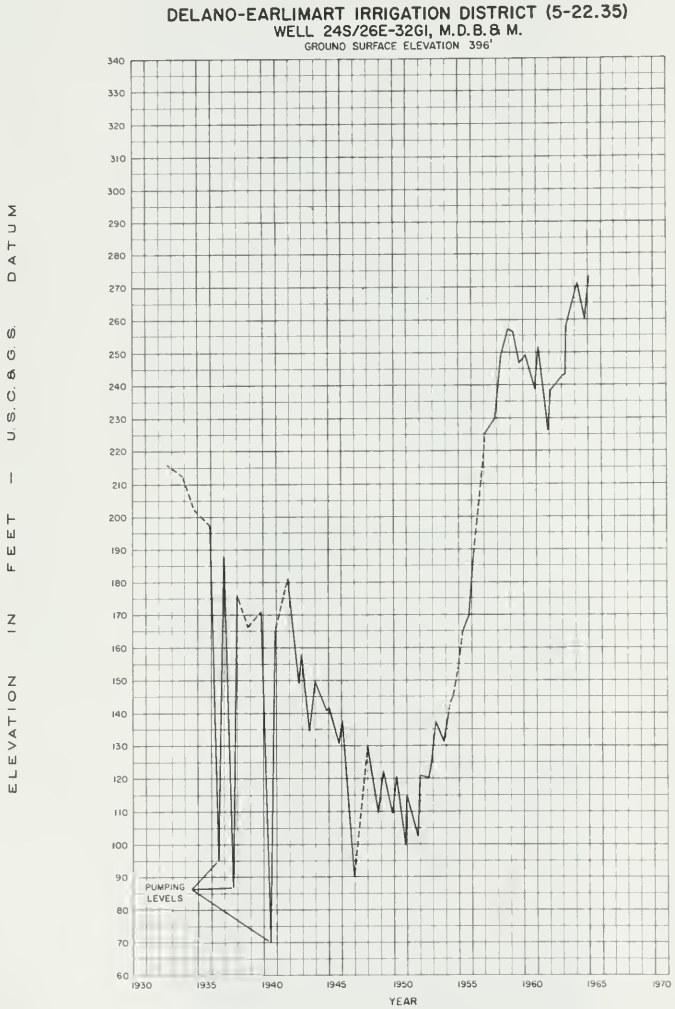
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



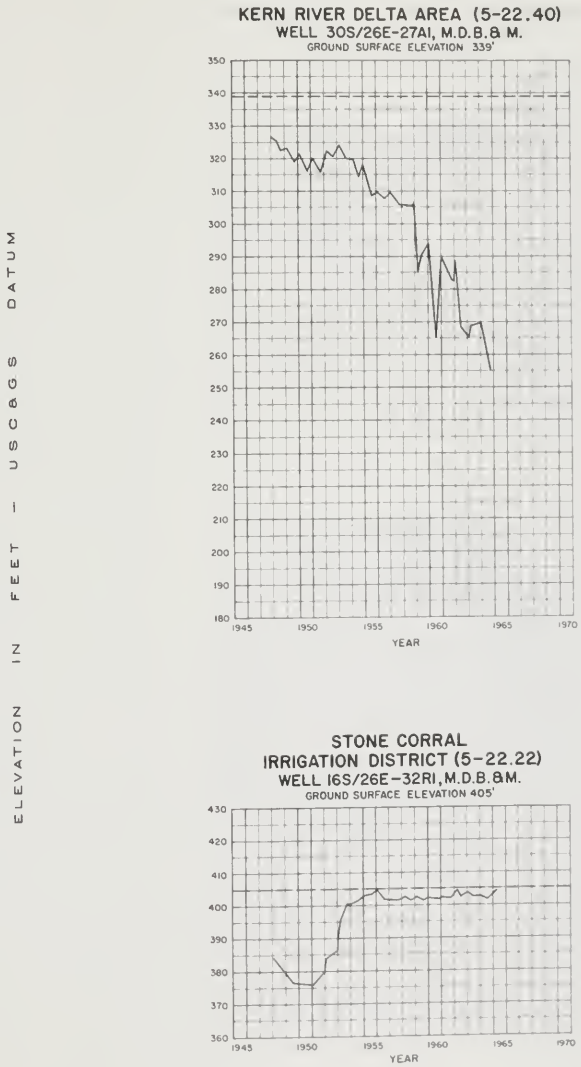
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

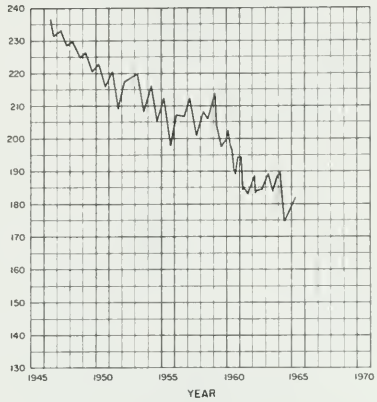


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

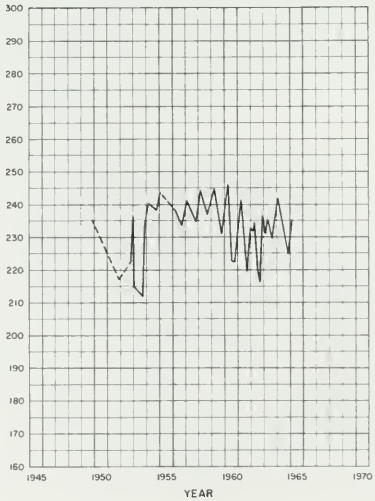
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET — U.S.C.&G.S. DATUM

CONSOLIDATED IRRIGATION DISTRICT (5-22.18)
WELL 16S/20E-22N1, M.D.B.& M.
GROUND SURFACE ELEVATION 247'

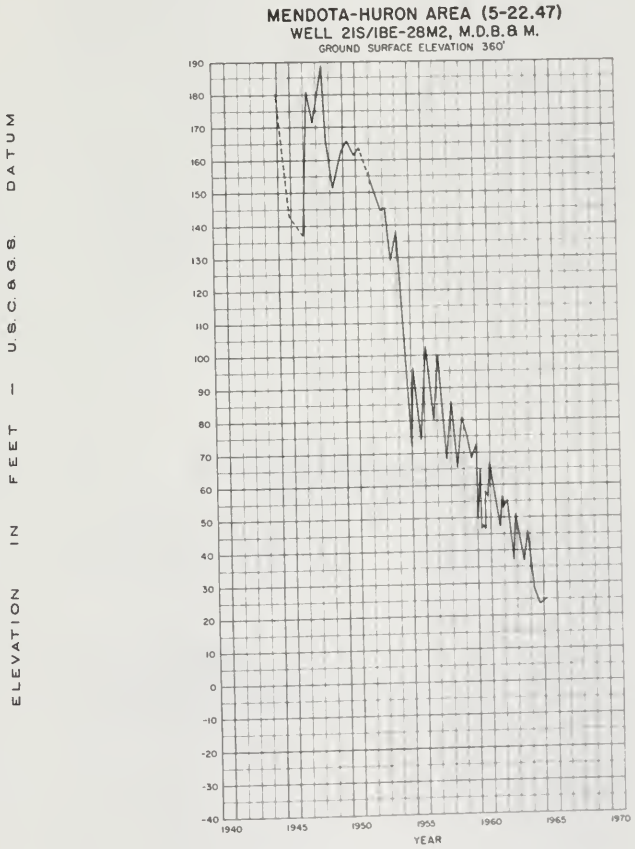


SAUCELITO IRRIGATION DISTRICT (5-22.32)
WELL 22S/26E-15J1, M.D.B.& M.
GROUND SURFACE ELEVATION 371'



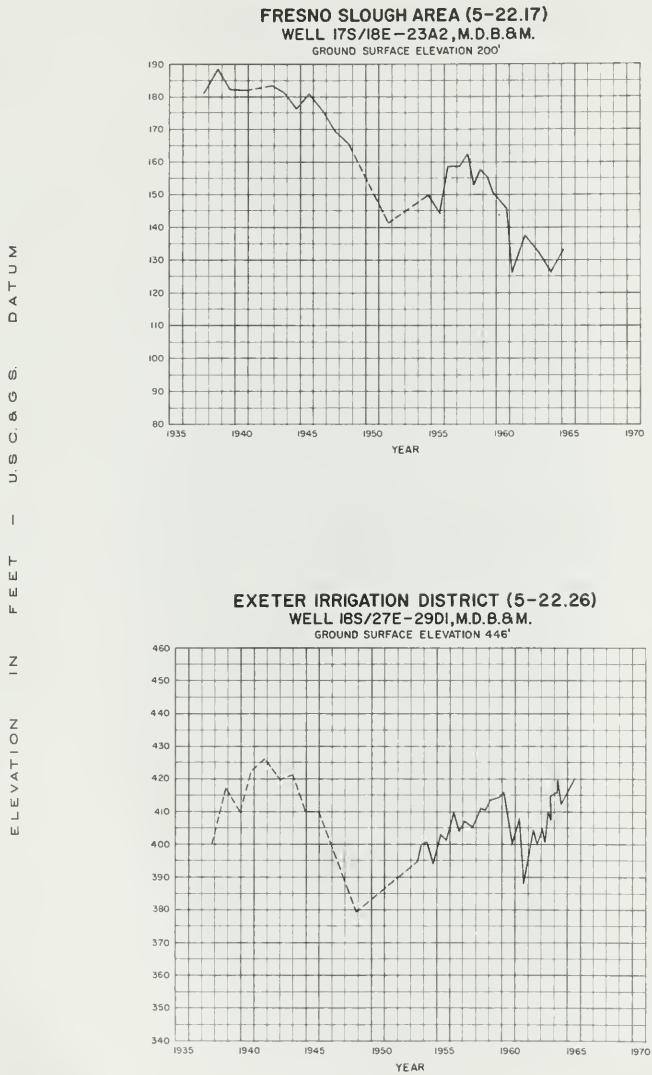
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



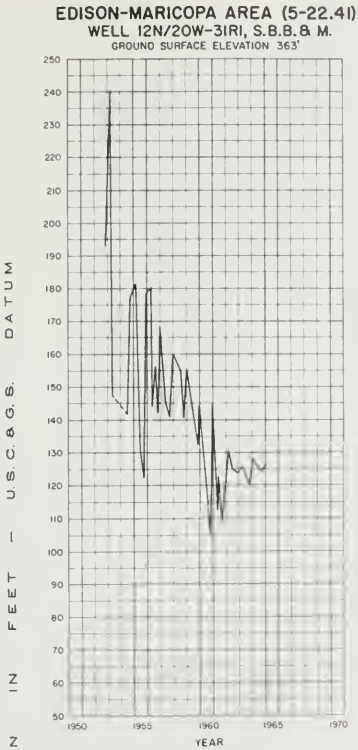
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

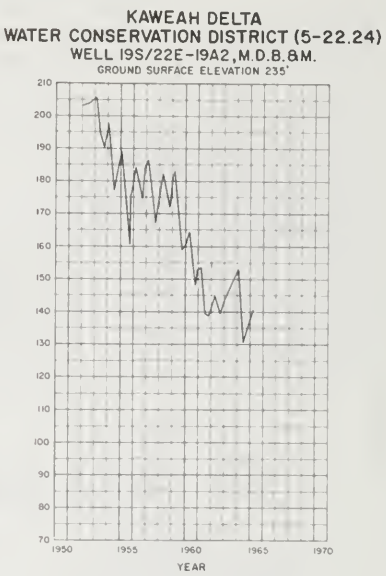
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

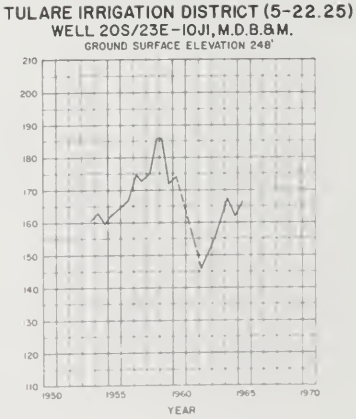


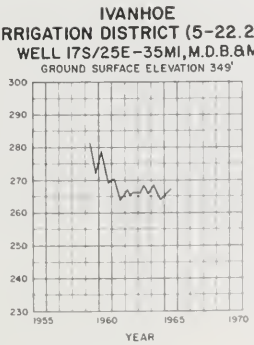
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



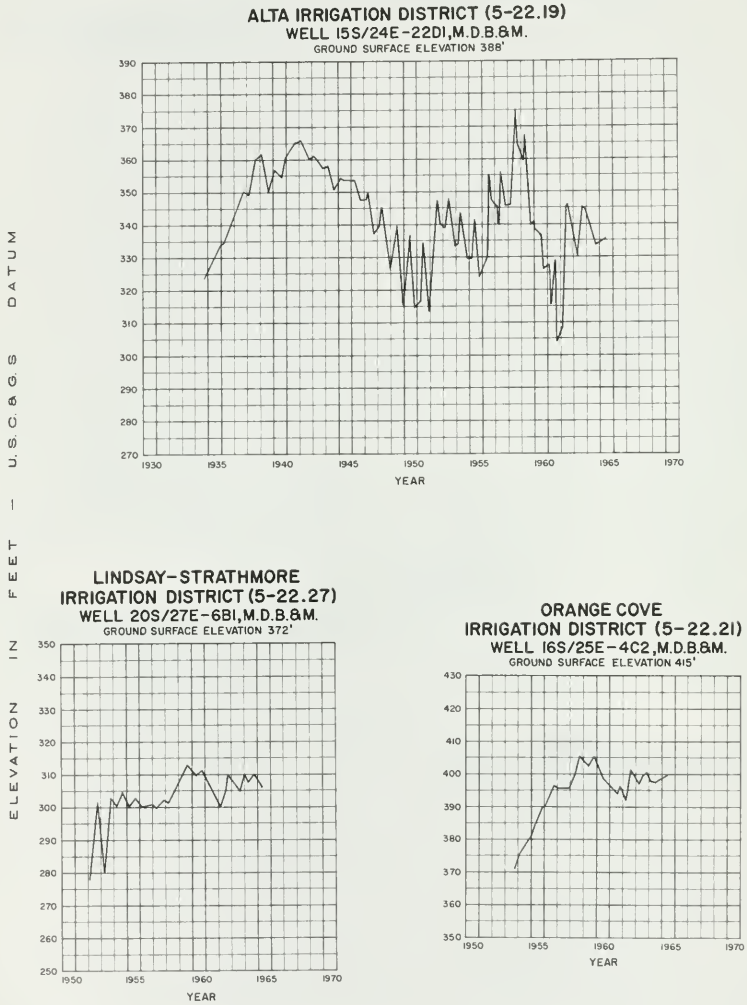






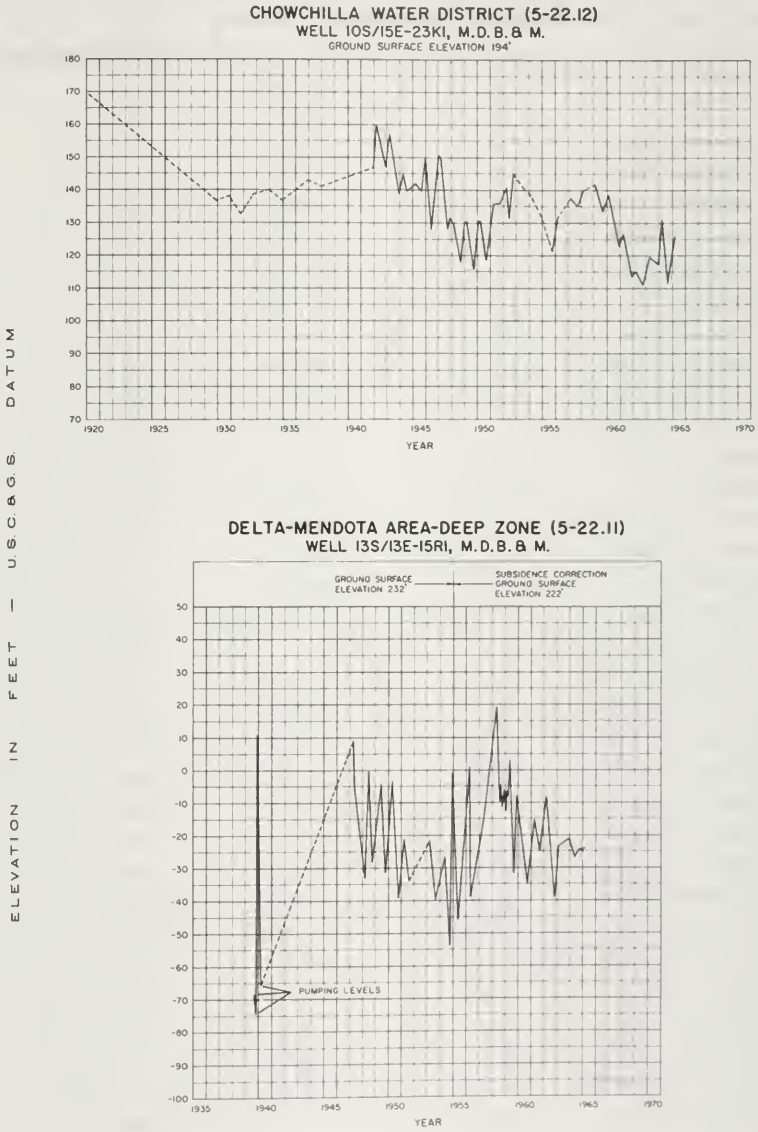
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

TABLE C-1

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1964 - Spring 1965

Ground Water Districts or Areas		Number of Wells Considered in Analysis	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Tracy Area	5-22.04	17	+ 5.9
Oakdale Irrigation District	5-22.06	a/	- 0.5
Modesto Irrigation District	5-22.07	a/	- 0.6
Turlock Irrigation District	5-22.08	a/	0.0
Merced Irrigation District	5-22.09	a/	0.0
El Nido Irrigation District	5-22.10	a/	- 6.0
Delta-Mendota Area	5-22.11	575	+ 0.2
Chowchilla Water District	5-22.12	a/	- 4.4
Madera Irrigation District	5-22.13	a/	- 0.8
West Chowchilla-Madera Area	5-22.14	a/	- 1.5
Fresno Irrigation District	5-22.15	a/	- 2.3
City of Fresno	5-22.16	a/	- 3.3
Fresno Slough Area	5-22.17	a/	- 3.8
Consolidated Irrigation District	5-22.18	a/	- 4.7
Alta Irrigation District	5-22.19	a/	- 2.2
Lower Kings River Area	5-22.20		
Shallow Zone		a/	-12.9
Deep Zone		a/	-10.7
Orange Cove Irrigation District	5-22.21	a/	+ 2.0
Stone Corral Irrigation District	5-22.22	a/	- 3.1
Ivanhoe Irrigation District	5-22.23	a/	+ 1.2
Kaweah-Delta Water Conservation District	5-22.24	a/	- 1.4
Tulare Irrigation District	5-22.25	a/	- 7.2
Exeter Irrigation District	5-22.26	a/	- 3.7
Lindsay-Strathmore Irrigation District	5-22.27	a/	+ 4.8
Lindmore Irrigation District	5-22.28	a/	- 3.4
Porterville Irrigation District	5-22.29	a/	+ 4.8
Lower Tule River Irrigation District	5-22.30		
Shallow Zone		a/	- 5.5
Deep Zone		a/	-12.9
Vandalia Irrigation District	5-22.31	5	- 4.5
Saucelito Irrigation District	5-22.32		
Shallow Zone		a/	- 5.0
Deep Zone		a/	+16.0
Pixley Irrigation District	5-22.33		
Shallow Zone		a/	+ 0.9
Deep Zone		a/	-10.7

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1964 - Spring 1965

Ground Water Districts or Areas		Number of Wells Considered in Analysis	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone		a/	- 5.9
Deep Zone		a/	- 6.7
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone		a/	+ 6.7
Deep Zone		a/	- 0.9
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone		a/	+ 3.6
Deep Zone		a/	- 3.6
North Kern Water Storage District	5-22.37		
Shallow Zone		a/	- 0.1
Deep Zone		a/	-12.1
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone		a/	-16.4
Deep Zone		a/	- 5.6
City of Bakersfield	5-22.39	26	- 4.4
Kern River Delta Area	5-22.40		
Shallow Zone		a/	- 5.5
Deep Zone		a/	- 6.8
Edison-Maricopa Area	5-22.41		
Deep Zone		a/	+ 2.7
Buena Vista Water Storage District	5-22.42	a/	- 1.5
Semitropic Water Storage District	5-22.43		
Shallow Zone		a/	- 2.7
Deep Zone		a/	- 6.3
Avenal-McKittrick Area	5-22.44	34	-12.9
Tulare Lake-Lost Hills Area	5-22.45	8	-30.7
Corcoran Irrigation District	5-22.46		
Shallow Zone		a/	+ 3.3
Deep Zone		a/	-30.2
Mendota-Huron Area	5-22.47		
Deep Zone		a/	- 9.3 b/
Poso Soil Conservation District	5-22.48	a/	+ 3.3
San Luis Canal Company	5-22.49	a/	+ 2.3
Terra Bella Irrigation District	5-22.50	4	- 3.7
Merced Bottoms	5-22.54	a/	- 6.4
Centerville Bottoms Area	5-22.64	a/	- 9.0
Garfield Water District	5-22.65	19	+ 3.5

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1964 - Spring 1965

Ground Water Districts or Areas		Number of Wells Considered in Analysis	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Kings County Water District	5-22.66		
Shallow Zone		a/	- 3.3
Deep Zone		a/	- 0.6
Pleasant Valley Area	5-22.69	a/	- 3.0

a/ Average changes were determined by planimetering ground water contour maps.
b/ Average change determined from water level measurements made during December 1963 and December 1964.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1965
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level 1921-51[a] in feet	Net change in water level 1951-65[b] in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1[c]	- 16.6
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 18.4
Consolidated	243.0	Consolidated Irrigation District	- 19.0	- 1.5
Centerville Bottoms	18.1	-----	+ 1.0	+ 4.3
Alta	190.9	Alta Irrigation District	- 17.2[c]	- 3.3
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 15.4
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	- 6.1
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	- 17.8
Tulare	121.1	Tulare Irrigation District	- 59.1	- 9.3
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	- 15.2
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 54.9
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 22.1
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	- 1.8[e] - 5.4[f]
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 12.4[e] - 30.9[f]
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 9.8[e] + 8.8[f]
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter-Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	- 15.3[e] - 21.1[f]
Rosedale	78.9	-----	- 36.3	- 61.4 - 17.9[g]
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9[d]	- 18.5[f]

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.
b/ Fall 1951 to spring 1965.
c/ Fall 1929 to fall 1951.
d/ Fall 1941 to fall 1951.
e/ Unconfined aquifer, spring 1961 to spring 1965, only one aquifer reported prior to 1961.
f/ Pressure surface, spring 1961 to spring 1965, only one aquifer reported prior to 1961.
g/ Pressure surface, spring 1963 to spring 1965, only one aquifer reported prior to 1963.

TABLE C-3

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL VALLEY REGION					
SAN JOAQUIN VALLEY			5-22.00		
TRACY AREA			5-22.04		
1S/05E-31R02 M	4.0	8-05-64	4.8	- 0.8	5050
		9-03-64	3.3	0.7	
		10-05-64	3.4	0.6	
		11-05-64	3.4	0.6	
		12-04-64	3.4	0.6	
		1-05-65	2.1	1.9	
		2-01-65	2.0	2.0	
		3-05-65	2.6	1.4	
		4-07-65	2.9	1.1	
		5-05-65	2.6	1.4	
		6-03-65	2.2	1.8	
2S/05E-15N02 M	32.0	8-05-64	11.5	20.5	5050
		9-03-64	12.8	19.2	
		10-05-64	12.3	19.7	
		11-05-64	11.6	20.4	
		12-04-64	11.5	20.5	
		1-05-65	10.7	21.3	
		2-01-65	10.9	21.1	
		3-05-65	11.4	20.6	
		4-07-65	12.0	20.0	
		5-05-65	13.2	18.8	
		6-03-65	10.9	21.1	
3S/06E-06N01 M	77.2	8-05-64	10.9	66.3	5050
		9-03-64	9.2	68.0	
		10-05-64	9.0	68.2	
		11-05-64	9.3	67.9	
		12-04-64	8.3	68.9	
		1-06-65	8.6	68.6	
		2-01-65	8.5	68.7	
		3-05-65	9.4	67.8	
		4-07-65	10.3	66.9	
		5-05-65	9.3	67.9	
		6-03-65	8.6	68.6	
OAKDALE IRRIGATION DISTRICT			5-22.06		
1S/09E-16J01 M	119.0	7-02-64	59.2	59.8	4520
		8-03-64	61.4	57.6	
		9-01-64	60.4	58.6	
		10-01-64	58.8	60.2	
		11-02-64	57.8	61.2	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
OAKDALE IRRIGATION DISTRICT			5-22.06		
1S/09E-16J01 M CONT.	119.0	12-01-64	57.3	61.7	4520
		12-31-64	57.3	61.7	
		2-01-65	56.9	62.1	
		3-01-65	56.8	62.2	
		4-01-65	56.8	62.2	
		5-04-65	57.8	61.2	
		6-02-65	59.6	59.4	
1S/09E-36A01 M	145.0	10-00-64	50.3	94.7	4520
		3-00-65	49.7	95.3	
1S/10E-19L01 M	146.5	7-02-64	¤		4520
		8-03-64	¤		
		9-01-64	56.0	90.5	
		10-01-64	53.2	93.3	
		11-02-64	52.1	94.4	
		12-01-64	51.6	94.9	
		12-31-64	51.7	94.8	
		2-01-65	51.4	95.1	
		3-01-65	51.5	95.0	
		4-01-65	51.4	95.1	
		5-04-65	51.5	95.0	
		6-02-65	51.4	95.1	
1S/10E-28J01 M	193.0	10-00-64	85.2	107.8	4520
		3-00-65	81.7	111.3	
2S/09E-26F01 M	132.0	7-02-64	59.8	72.2	4520
		8-03-64	¤		
		9-01-64	¤		
		10-01-64	56.7	75.3	
		11-02-64	54.0	78.0	
		12-01-64	53.0	79.0	
		12-31-64	50.8	81.2	
		2-01-65	51.1	80.9	
		3-01-65	52.0	80.0	
		4-01-65	52.3	79.7	
		5-04-65	¤		
		6-02-65	¤		
2S/10E-04H01 M	185.5	7-02-64	78.3	107.2	4520
		8-03-64	79.5	106.0	
		9-01-64	80.3	105.2	
		10-01-64	79.5	106.0	
		11-02-64	78.3	107.2	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
OAKDALE IRRIGATION DISTRICT		5-22.06			
2S/10E-04H01 M CONT.	185.5	12-01-64	76.5	109.0	4520
		12-31-64	76.3	109.2	
		2-01-65	75.8	109.7	
		3-01-65	75.7	109.8	
		4-01-65	76.0	109.5	
		5-04-65	76.3	109.2	
		6-02-65	77.3	108.2	
2S/10E-33J01 M	165.0	10-00-64	63.2	101.8	4520
		3-00-65	59.5	105.5	
2S/11E-29B01 M	218.0	7-02-64	94.9	123.1	4520
		8-03-64	96.1	121.9	
		9-01-64	96.5	121.5	
		10-01-64	96.1	121.9	
		11-02-64	94.6	123.4	
		12-01-64	92.6	125.4	
		12-31-64	91.8	126.2	
		2-01-65	90.9	127.1	
		3-01-65	90.8	127.2	
		4-01-65	90.4	127.6	
		5-04-65	92.1	125.9	
		6-02-65	92.6	125.4	
2S/11E-31P01 M	192.0	3-00-65	77.0	115.0	4520
2S/12E-31K01 M	190.0	3-00-65	41.6	148.4	4520
3S/10E-15A01 M	152.0	7-02-64	¤		4520
		8-03-64	¤		
		9-01-64	¤		
		10-01-64	57.3	94.7	
		11-02-64	57.0	95.0	
		12-01-64	53.7	98.3	
		12-31-64	51.4	100.6	
		2-01-65	50.1	101.9	
		3-01-65	49.2	102.8	
		4-01-65	48.8	103.2	
		5-04-65	48.7	103.3	
		6-02-65	¤		
3S/11E-18D01 M	162.0	3-00-65	54.3	107.7	4520

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MODESTO IRRIGATION DISTRICT		5-22.07			
2S/08E-25P01 M	94.0	3-00-65	32.7	61.3	4521
2S/09E-31G01 M	100.3	3-00-65	33.3	67.0	4521
3S/08E-22C01 M	64.0	7-06-64	26.9	37.1	5050
		8-03-64	28.0	36.0	
		9-03-64	28.9	35.1	
		10-02-64	26.7	37.3	
		11-05-64	20.0	44.0	
		12-04-64	18.1	45.9	
		1-06-65	16.6	47.4	
		2-01-65	16.0	48.0	
		3-05-65	15.5	48.5	
		4-07-65	16.8	47.2	
		5-05-65	16.1	47.9	
		6-02-65	16.4	47.6	
3S/08E-22C02 M	64.0	7-06-64	13.1	50.9	5050
		8-03-64	13.3	50.7	
		9-03-64	13.0	51.0	
		10-02-64	13.5	50.5	
		11-04-64	13.5	50.5	
		12-04-64	13.2	50.8	
		1-06-65	12.9	51.1	
		2-01-65	12.5	51.5	
		3-05-65	12.5	51.5	
		4-07-65	11.8	52.2	
		5-05-65	11.9	52.1	
		6-02-65	11.7	52.3	
3S/08E-24C02 M	74.0	3-00-65	22.9	51.1	4521
3S/09E-05N01 M	92.5	3-00-65	26.9	65.6	4521
3S/09E-21A01 M	99.2	3-00-65	40.5	58.7	4521
3S/09E-30P01 M	82.5	3-00-65	38.6	43.9	4521
3S/10E-06G01 M	133.1	3-00-65	36.0	97.1	4521
3S/10E-29K01 M	119.2	3-00-65	46.5	72.7	4521
3S/10E-32G01 M	123.0	3-00-65	57.0	66.0	4521
4S/08E-03E01 M	63.0	3-00-65	19.3	43.7	4521

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TURLOCK IRRIGATION DISTRICT			5-22.08		
4S/08E-27D01 M	55.0	3-03-65	8.3	46.7	4524
4S/09E-21A02 M	82.0	3-03-65	15.0	67.0	4524
4S/10E-21R01 M	109.0	3-03-65	11.9	97.1	4524
4S/10E-21R02 M	109.0	2-00-65	14.5	94.5	4524
4S/11E-29N01 M	131.0	3-02-65	15.0	116.0	4524
4S/11E-32P01 M	130.0	2-00-65	23.0	107.0	4524
5S/08E-01N01 M	53.0	3-02-65	6.9	46.1	4524
5S/08E-02R01 M	50.0	2-00-65	7.7	42.3	4524
5S/09E-04A01 M	70.0	7-06-64	7.9	62.1	5050
		8-05-64	14.8	55.2	
		9-01-64	16.1	53.9	
		10-05-64	9.5	60.5	
		11-04-64	9.0	61.0	
		1-06-65	8.4	61.6	
		2-02-65	8.0	62.0	
		3-04-65	8.3	61.7	
		4-07-65	7.3	62.7	
		5-05-65	6.4	63.6	
		6-02-65	5.8	64.2	
5S/09E-14R01 M	75.0	3-02-65	8.2	66.8	4524
5S/09E-22N01 M	63.0	2-00-65	8.3	54.7	4524
5S/09E-24N01 M	75.0	3-02-65	7.5	67.5	4524
5S/10E-21Q01 M	90.0	2-00-65	7.6	82.4	4524
5S/10E-21R01 M	92.0	3-01-65	7.7	84.3	4524
5S/11E-21N01 M	125.0	3-01-65	7.5	117.5	4524
5S/11E-29F01 M	120.0	2-00-65	9.5	110.5	4524
5S/12E-31N01 M	150.0	2-00-65	¤		4524
6S/09E-15R01 M	60.0	3-02-65	5.6	54.4	4524
TURLOCK IRRIGATION DISTRICT			5-22.08		
6S/10E-21A01 M	85.6	3-01-65	5.5	80.1	4524
6S/10E-21N01 M	84.0	2-00-65	7.6	76.4	4524
6S/11E-08R01 M	115.0	3-01-65	13.3	101.7	4524
6S/11E-09N01 M	118.0	3-02-65	8.2	109.8	4524
MERCED IRRIGATION DISTRICT			5-22.09		
6S/12E-21N02 M	143.8	3-02-65	13.7	130.1	4525
6S/13E-19N01 M	180.7	10-28-64	15.5	165.2	4525
		3-03-65	14.7	166.0	
		4-00-65	@		
6S/14E-32N01 M	178.1	3-00-65	14.0	164.1	4525
7S/10E-01N01 M	90.7	3-00-65	9.5	81.2	4525
7S/11E-01H01 M	118.0	7-03-64	12.8	105.2	5050
		8-04-64	11.3	106.7	
		9-04-64	11.3	106.7	
		10-05-64	11.4	106.6	
		11-05-64	11.3	106.7	
		1-12-65	11.0	107.0	
		2-02-65	10.7	107.3	
		3-05-65	10.6	107.4	
		4-09-65	10.2	107.8	
		5-06-65	10.6	107.4	
		6-04-65	10.3	107.7	
7S/11E-13N01 M	106.6	3-00-65	4.7	101.9	4525
7S/12E-12R01 M	147.3	3-00-65	15.1	132.2	4525
7S/13E-16N01 M	151.9	3-00-65	13.4	138.5	4525
7S/14E-16R01 M	187.5	3-00-65	14.1	173.4	4525
7S/15E-36N01 M	234.2	3-00-65	@		4525
8S/12E-01D01 M	120.2	3-00-65	5.6	114.6	4525
8S/13E-09R01 M	135.0	3-00-65	5.8	129.2	4525

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MERCED IRRIGATION DISTRICT			5-22.09		
8S/14E-01A01 M	196.8	3-00-65	11.8	185.0	4525
EL NIDO IRRIGATION DISTRICT			5-22.10		
9S/13E-14R01 M	133.0	2-09-65	80.9	52.1	6001
9S/14E-20B01 M	152.0	2-09-65	69.0	83.0	6001
DELTA-MENDOTA AREA			5-22.11		
2S/04E-16H01 M	78.0	10-00-64	8.0	70.0	6001
		3-00-65	7.3	70.7	
2S/04E-25J01 M	80.4	10-00-64	18.6	61.8	6001
		3-00-65	¤		
2S/04E-28A01 M	187.0	10-00-64	126.7	60.3	6001
		3-00-65	126.4	60.6	
2S/05E-32A01 M	76.0	10-00-64	¤		6001
		3-00-65	23.2	52.8	
3S/05E-08R01 M	195.7	3-00-65	¤		6001
3S/05E-08R02 M	195.7	3-00-65	125.3	70.4	6001
3S/05E-25Q01 M	207.0	3-00-65	118.9	88.1	6001
3S/05E-26K01 M	212.1	3-04-65	124.6	87.5	6001
3S/06E-16Q01 M	80.0	3-04-65	56.7	23.3	6001
3S/06E-18N01 M	99.3	10-00-64	12.8	86.5	6001
		3-04-65	14.6	84.7	
3S/06E-25D01 M	63.5	3-04-65	¤		6001
4S/06E-04H01 M	163.3	3-02-65	116.2	47.1	6001
4S/06E-09R01 M	166.3	3-02-65	¤		6001
4S/07E-27M01 M	68.0	3-05-65	24.2	43.8	6001
4S/07E-31D01 M	185.4	3-03-65	107.7	77.7	6001
5S/07E-05D01 M	157.4	10-26-64	#		6001

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELTA-MENDOTA AREA			5-22.11		
5S/07E-13K01 M	107.0	10-27-64	¤		6001
		3-04-65	60.9	46.1	
5S/07E-14D01 M	130.4	10-26-64	¤		6001
		3-03-65	¤		
5S/08E-06K01 M	58.7	3-22-65	19.2	39.5	6001
6S/07E-12P01 M	248.3	10-06-64	15.8	232.5	5050
		2-17-65	12.2	236.1	
6S/08E-12L01 M	64.3	3-22-65	19.1	45.2	6001
6S/08E-16M01 M	129.5	10-06-64	82.3	47.2	5050
		2-17-65	65.1	64.4	
6S/08E-27J01 M	114.5	10-06-64	52.2	62.3	5050
		2-18-65	46.4	68.1	
6S/08E-29J01 M	190.0	10-06-64	121.8	68.2	5050
		2-18-65	117.3	72.7	
7S/08E-22L01 M	127.9	10-08-64	47.8	80.1	5050
		2-24-65	50.1	77.8	
7S/09E-04P01 M	65.6	10-07-64	14.7	50.9	5050
		2-24-65	12.2	53.4	
7S/09E-26N01 M	68.4	10-13-64	8.9	59.5	5050
		2-26-65	5.8	62.6	
8S/08E-01N01 M	123.2	10-08-64	17.4	105.8	5050
		2-24-65	24.5	98.7	
8S/08E-15J01 M	172.8	10-08-64	69.6	103.2	5050
		3-02-65	60.1	112.7	
8S/09E-26H01 M	75.0	10-13-64	53.5	21.5	5050
		3-03-65	18.0	57.0	
8S/09E-26H03 M	75.0	10-13-64	6.2	68.8	5050
		3-03-65	1.8	73.2	
8S/10E-21L04 M	75.0	10-13-64	8.0	67.0	5050
		3-03-65	2.3	72.7	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELTA-MENDOTA AREA			5-22.11		
9S/08E-13D01 M	201.6	10-16-64	¤		5050
		3-04-65	17.5	184.1	
9S/09E-18N01 M	153.6	10-19-64	33.7	119.9	5050
		3-04-65	38.4	115.2	
9S/09E-23L01 M	100.0	10-19-64	70.4	29.6	5050
		3-05-65	41.5	58.5	
9S/10E-19B01 M	84.0	10-15-64	3.4	80.6	5050
		3-03-65	+ .7	84.7	
9S/10E-23J01 M	87.0	10-15-64	60.1	26.9	5050
		3-05-65	41.7	45.3	
9S/11E-16H01 M	91.0	10-20-64	9.1	81.9	5050
		3-11-65	9.5	81.5	
9S/11E-20J01 M	90.5	10-20-64	50.3	40.2	5050
		3-11-65	39.5	51.0	
10S/09E-06A01 M	147.0	10-19-64	9.6	137.4	5050
		3-11-65	¤		
10S/09E-08B01 M	167.0	10-19-64	78.8	88.2	5050
		3-11-65	79.0	88.0	
10S/10E-02R01 M	99.5	10-20-64	20.9	78.6	5050
		3-11-65	17.1	82.4	
10S/10E-11R01 M	106.6	10-20-64	22.3	84.3	5050
		3-11-65	¤		
10S/10E-31G01 M	191.1	10-19-64	¤		5050
		3-12-65	155.1	36.0	
10S/11E-23D01 M	99.0	10-15-64	7.4	91.6	5050
		3-10-65	2.8	96.2	
10S/11E-27E02 M	101.3	10-15-64	65.4	35.9	5050
		3-10-65	56.0	45.3	
11S/10E-11J01 M	157.3	10-16-64	56.0	101.3	5050
		3-09-65	¤		
11S/10E-22Q01 M	246.8	10-15-64	139.8	107.0	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELTA-MENDOTA AREA			5-22.11		
11S/10E-22Q01 M CONT.	246.8	3-09-65	¤		5050
11S/11E-02J02 M	106.0	10-16-64	4.5	101.5	5050
		3-10-65	1.4	104.6	
11S/11E-22K01 M	114.2	10-16-64	¤		5050
		3-10-65	1.9	112.3	
11S/11E-22Q03 M	119.0	10-16-64	18.0	101.0	5050
		3-10-65	8.7	110.3	
11S/12E-31C01 M	132.0	10-16-64	31.0	101.0	5050
		3-10-65	21.7	110.3	
12S/12E-04D01 M	138.0	10-22-64	3.7	134.3	6001
		2-24-65	3.1	134.9	
12S/12E-16H05 M	168.0	10-12-64	127.4	40.6	5000
		2-08-65	126.8	41.2	
12S/12E-25D01 M	177.0	10-18-64	64.8	112.2	6001
		2-25-65	67.2	109.8	
12S/12E-25D02 M	177.0	10-18-64	11.2	165.8	6001
		2-25-65	11.2	165.8	
12S/13E-10N01 M	144.0	10-22-64	4.5	139.5	6001
		2-24-65	DRY		
12S/14E-30C01 M	154.0	10-22-64	26.0	128.0	6001
		2-25-65	24.0	130.0	
CHOWCHILLA WATER DISTRICT			5-22.12		
9S/14E-25R01 M	185.0	10-13-64	73.3	111.7	6001
		2-16-65	71.7	113.3	
9S/15E-22R02 M	216.5	7-28-64	¤		6001
		8-29-64	121.0	95.5	
		9-21-64	119.0	97.5	
		10-28-64	112.2	104.3	
		11-25-64	86.8	129.7	
		12-23-64	87.6	128.9	
		1-25-65	88.0	128.5	
		2-25-65	95.5	121.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CHOWCHILLA WATER DISTRICT		5-22.12			
9S/15E-22R02 M CONT.	216.5	3-24-65	106.4	110.1	6001
		4-28-65	◻		
		5-26-65	◻		
		6-23-65	◻		
9S/15E-25J02 M	230.0	10-08-64	49.4	180.6	6001
		2-09-65	47.5	182.5	
9S/15E-33B01 M	205.0	7-28-64	46.9	158.1	6001
		8-26-64	54.0	151.0	
		9-21-64	72.4	132.6	
		10-28-64	82.8	122.2	
		11-25-64	74.2	130.8	
		12-23-64	66.3	138.7	
		1-25-65	37.7	167.3	
		2-25-65	43.5	161.5	
		3-24-65	35.6	169.4	
		4-28-65	33.0	172.0	
		5-26-65	33.3	171.7	
		6-23-65	37.8	167.2	
9S/16E-22P01 M	267.0	7-27-64	45.3	221.7	6001
		8-26-64	44.8	222.2	
		9-21-64	45.0	222.0	
		10-28-64	45.4	221.6	
		11-25-64	44.4	222.6	
		12-23-64	44.5	222.5	
		1-25-65	45.1	221.9	
		2-25-65	45.4	221.6	
		3-24-65	45.3	221.7	
		4-28-65	44.2	222.8	
		5-26-65	43.6	223.4	
		6-23-65	42.9	224.1	
9S/17E-21L01 M	320.0	10-06-64	105.5	214.5	6001
		2-00-65	●		
9S/17E-35J01 M	320.0	10-06-64	79.3	240.7	6001
		2-08-65	79.5	240.5	
9S/18E-33Q01 M	365.0	10-06-64	52.0	313.0	6001
		2-08-65	53.6	311.4	
10S/14E-08B03 M	150.0	7-28-64	88.0	62.0	6001
		8-26-64	89.5	60.5	
CHOWCHILLA WATER DISTRICT		5-22.12			
10S/14E-08B03 M CONT.	150.0	9-21-64	85.6	64.4	6001
		10-28-64	80.1	69.9	
		11-24-64	77.6	72.4	
		12-22-64	74.5	75.5	
		1-26-65	72.1	77.9	
		2-24-65	72.6	77.4	
		3-23-65	75.9	74.1	
		4-27-65	72.5	77.5	
		5-25-65	76.1	73.9	
		6-22-65	79.0	71.0	
10S/15E-23K01 M	195.5	10-05-64	83.6	111.9	6001
		2-10-65	69.0	126.5	
10S/15E-27D03 M	184.0	7-28-64	83.5	100.5	6001
		8-26-64	◻		
		9-21-64	◻		
		10-28-64	79.7	104.3	
		11-24-64	77.2	106.8	
		12-22-64	74.8	109.2	
		1-26-65	73.4	110.6	
		2-24-65	78.5	105.5	
		3-23-65	◻		
		4-27-65	◻		
		5-25-65	◻		
		6-22-65	◻		
10S/16E-09E01 M	232.0	7-28-64	◻		6001
		8-26-64	101.7	130.3	
		9-21-64	◻		
		10-28-64	88.5	143.5	
		11-24-64	80.0	152.0	
		12-22-64	77.3	154.7	
		1-25-65	75.2	156.8	
		2-24-65	◻		
		3-23-65	87.6	144.4	
		4-27-65	76.7	155.3	
		5-25-65	◻		
		6-22-65	◻		
10S/16E-29R01 M	209.5	10-07-64	88.2	121.3	6001
		2-08-65	77.6	131.9	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MADERA IRRIGATION DISTRICT		5-22.13			
10S/18E-20B01 M	326.0	10-05-64	73.2	252.8	6001
		2-08-65	70.2	255.8	
10S/19E-16D01 M	387.0	10-05-64	22.0	365.0	6001
		2-08-65	20.0	367.0	
11S/16E-06A01 M	196.0	7-27-64	74.0	122.0	6001
		8-25-64	76.6	119.4	
		9-21-64	76.8	119.2	
		10-28-64	75.0	121.0	
		11-24-64	72.5	123.5	
		12-22-64	70.6	125.4	
		1-26-65	69.1	126.9	
		2-24-65	67.9	128.1	
		3-23-65	70.1	125.9	
		4-27-65	70.4	125.6	
		5-25-65	71.8	124.2	
		6-22-65	71.1	124.9	
11S/16E-10N01 M	205.0	7-27-64	73.7	131.3	6001
		8-25-64	¤		
		9-21-64	¤		
		10-27-64	74.1	130.9	
		11-24-64	73.3	131.7	
		12-22-64	71.7	133.3	
		1-26-65	70.6	134.4	
		2-24-65	69.7	135.3	
		3-23-65	71.3	133.7	
		4-27-65	71.3	133.7	
		5-25-65	71.8	133.2	
		6-22-65	73.1	131.9	
11S/17E-27C01 M	250.0	12-31-64	73.3	176.7	6001
		2-04-65	74.2	175.8	
11S/18E-20N01 M	272.5	2-15-65	78.2	194.3	6001
11S/18E-27M01 M	284.0	7-27-64	82.1	201.9	6001
		8-25-64	82.6	201.4	
		9-22-64	82.5	201.5	
		10-28-64	86.7	197.3	
		11-25-64	85.3	198.7	
		12-23-64	85.2	198.8	
		1-27-65	83.6	200.4	
		2-25-65	86.0	198.0	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MADERA IRRIGATION DISTRICT		5-22.13			
11S/18E-27M01 M CONT.	284.0	3-24-65	88.6	195.4	6001
		4-28-65	81.5	202.5	
		5-26-65	82.0	202.0	
		6-23-65	82.0	202.0	
11S/20E-22M01 M	416.0	10-07-64	110.5	305.5	6001
		2-10-65	¤		
12S/16E-23A01 M	205.0	2-05-65	71.6	133.4	6001
12S/17E-08G01 M	230.0	7-27-64	86.5	143.5	6001
		8-25-64	89.6	140.4	
		9-22-64	88.5	141.5	
		10-27-64	87.2	142.8	
		11-24-64	83.5	146.5	
		12-22-64	81.8	148.2	
		1-26-65	79.4	150.6	
		2-26-65	80.6	149.4	
		3-23-65	81.4	148.6	
		4-27-65	82.6	147.4	
		5-25-65	85.5	144.5	
		6-22-65	87.2	142.8	
12S/17E-20P01 M	218.0	7-27-64	¤		6001
		8-25-64	96.1	121.9	
		9-22-64	¤		
		10-27-64	87.7	130.3	
		11-23-64	75.8	142.2	
		12-22-64	74.7	143.3	
		1-26-65	68.7	149.3	
		2-26-65	¤		
		3-23-65	¤		
		4-27-65	¤		
		5-25-65	90.2	127.8	
		6-22-65	¤		
12S/17E-21H01 M	228.0	2-18-65	63.9	164.1	6001
12S/17E-26C01 M	235.0	7-27-64	67.4	167.6	6001
		8-25-64	66.6	168.4	
		9-22-64	66.0	169.0	
		10-27-64	65.4	169.6	
		11-24-64	68.5	166.5	
		12-22-64	62.8	172.2	
		1-26-65	62.1	172.9	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MADERA IRRIGATION DISTRICT			5-22.13		
12S/17E-26C01 M CONT.	235.0	2-24-65	64.2	170.8	6001
		3-23-65	65.4	169.6	
		4-27-65	64.9	170.1	
		5-25-65	64.8	170.2	
		6-22-65	65.1	169.9	
12S/17E-34R01 M	234.0	7-27-64	66.0	168.0	6001
		8-24-64	66.1	167.9	
		9-22-64	62.1	171.9	
		10-27-64	61.6	172.4	
		11-23-64	58.1	175.9	
		12-22-64	57.0	177.0	
		1-26-65	55.5	178.5	
		2-24-65	56.5	177.5	
		3-23-65	59.1	174.9	
		4-27-65	58.0	176.0	
		5-25-65	59.4	174.6	
		6-22-65	62.0	172.0	
12S/18E-13R01 M	288.0	7-27-64	82.4	205.6	6001
		8-25-64	80.5	207.5	
		9-22-64	83.2	204.8	
		10-27-64	80.5	207.5	
		11-24-64	79.8	208.2	
		12-22-64	79.7	208.3	
		1-27-65	79.0	209.0	
		2-24-65	78.9	209.1	
		3-23-65	79.5	208.5	
		4-27-65	79.3	208.7	
		5-25-65	80.7	207.3	
		6-22-65	80.8	207.2	
12S/18E-21G01 M	265.0	2-11-65	74.4	190.6	6001
12S/18E-21H01 M	267.0	7-27-64	78.2	188.8	6001
		8-25-64	78.7	188.3	
		9-22-64	78.8	188.2	
		10-27-64	83.6	183.4	
		11-24-64	86.0	181.0	
		12-22-64	92.7	174.3	
		1-27-65	75.9	191.1	
		2-24-65	76.0	191.0	
		3-23-65	74.9	192.1	
		4-27-65	74.5	192.5	
		5-25-65	75.7	191.3	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MADERA IRRIGATION DISTRICT			5-22.13		
12S/18E-21H01 M CONT.	267.0	6-22-65	78.4	188.6	6001
12S/19E-28A01 M	307.5	10-07-64	85.5	222.0	6001
		2-09-65	89.0	218.5	
WEST CHOWCHILLA-MADERA AREA			5-22.14		
10S/13E-22R01 M	119.0	10-07-64	24.3	94.7	6001
		2-10-65	19.8	99.2	
10S/14E-01R01 M	177.0	10-12-64	80.0	97.0	6001
		2-11-65	73.1	103.9	
10S/14E-31H01 M	131.0	7-28-64	29.2	101.8	6001
		8-26-64	30.0	101.0	
		9-21-64	30.8	100.2	
		10-28-64	31.0	100.0	
		11-24-64	29.9	101.1	
		12-22-64	32.8	98.2	
		1-26-65	31.6	99.4	
		2-24-65	32.4	98.6	
		3-23-65	30.2	100.8	
		4-27-65	29.0	102.0	
		5-25-65	30.6	100.4	
		6-22-65	29.1	101.9	
10S/14E-35F01 M	151.0	7-28-64	□		6001
		8-26-64	□		
		9-21-64	□		
		10-28-64	87.2	63.8	
		11-24-64	74.4	76.6	
		12-22-64	68.3	82.7	
		1-26-65	65.6	85.4	
		2-24-65	□		
		3-23-65	□		
		4-27-65	70.9	80.1	
		5-25-65	78.6	72.4	
		6-22-65	□		
11S/14E-33L01 M	135.0	7-27-64	18.6	116.4	6001
		8-26-64	19.0	116.0	
		9-22-64	16.5	118.5	
		10-27-64	13.4	121.6	
		11-24-64	12.9	122.1	
		12-22-64	13.0	122.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
WEST CHOWCHILLA MADERA AREA			5-22.14		
11S/14E-33L01 M	135.0	1-26-65	12.7	122.3	6001
CONT.		2-24-65	□		
		3-23-65	15.2	119.8	
		4-27-65	16.7	118.3	
		5-25-65	□		
		6-22-65	□		
11S/15E-33E01 M	158.0	10-08-64	43.2	114.8	6001
		2-11-65	43.7	114.3	
11S/15E-33P01 M	158.0	7-27-64	40.6	117.4	6001
		8-25-64	42.6	115.4	
		9-22-64	51.2	106.8	
		10-27-64	41.9	116.1	
		11-24-64	36.6	121.4	
		12-22-64	44.4	113.6	
		1-26-65	35.9	122.1	
		2-24-65	51.7	106.3	
		3-23-65	□		
		4-27-65	54.5	103.5	
		5-25-65	45.3	112.7	
		6-22-65	60.5	97.5	
12S/14E-25H01 M	150.0	7-27-64	□		6001
		8-25-64	□		
		9-22-64	14.8	135.2	
		10-27-64	15.4	134.6	
		11-24-64	13.8	136.2	
		12-22-64	13.6	136.4	
		1-26-65	16.0	134.0	
		2-24-65	25.1	124.9	
		3-23-65	25.1	124.9	
		4-26-65	16.5	133.5	
		5-25-65	17.2	132.8	
		6-22-65	25.0	125.0	
12S/15E-14L01 M	165.1	10-08-64	43.7	121.4	6001
		2-12-65	□		
13S/16E-02C01 M	195.0	7-27-64	78.5	116.5	6001
		8-25-64	81.7	113.3	
		9-22-64	71.8	123.2	
		10-27-64	70.0	125.0	
		11-23-64	63.6	131.4	
		12-22-64	60.1	134.9	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
WEST CHOWCHILLA MADERA AREA			5-22.14		
13S/16E-02C01 M	195.0	1-26-65	57.5	137.5	6001
CONT.		2-24-65	62.2	132.8	
		3-23-65	64.2	130.8	
		4-27-65	66.9	128.1	
		5-25-65	68.2	126.8	
		6-22-65	72.6	122.4	
FRESNO IRRIGATION DISTRICT			5-22.15		
12S/20E-14A01 M	360.0	9-23-64	97.4	262.6	6001
		2-11-65	96.0	264.0	
12S/21E-34D01 M	387.7	7-28-64	59.4	328.3	5631
		8-26-64	63.3	324.4	
		10-01-64	62.2	325.5	
		10-26-64	□		
		11-27-64	59.9	327.8	
		12-30-64	61.7	326.0	
		2-01-65	56.5	331.2	
		2-26-65	56.0	331.7	
		4-01-65	55.7	332.0	
		5-04-65	59.3	328.4	
		5-28-65	55.8	331.9	
		6-28-65	56.8	330.9	
12S/22E-21E01 M	473.0	10-09-64	27.8	445.2	6001
		2-11-65	19.6	453.4	
13S/17E-22B01 M	220.8	7-29-64	42.4	178.4	5631
		8-25-64	42.9	177.9	
		9-26-64	43.5	177.3	
		10-28-64	44.0	176.8	
		11-28-64	43.9	176.9	
		12-31-64	43.5	177.3	
		2-03-65	42.9	177.9	
		2-26-65	42.5	178.3	
		4-01-65	42.7	178.1	
		5-04-65	43.3	177.5	
		5-26-65	39.1	181.7	
		6-29-65	37.9	182.9	
13S/17E-33D01 M	212.0	7-27-64	61.7	150.3	6001
		8-24-64	61.1	150.9	
		9-23-64	61.9	150.1	
		10-26-64	60.5	151.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO IRRIGATION DISTRICT		5-22.15			
13S/17E-33D01 M CONT.	212.0	11-23-64	55.3	156.7	6001
		12-21-64	63.0	149.0	
		1-27-65	53.1	158.9	
		2-23-65	58.0	154.0	
		3-22-65	53.1	158.9	
		4-26-65	51.6	160.4	
		5-24-65	52.2	159.8	
		6-21-65	56.6	155.4	
13S/18E-10P01 M	258.0	7-27-64	57.0	201.0	6001
		8-24-64	57.1	200.9	
		9-23-64	53.8	204.2	
		10-26-64	54.8	203.2	
		11-23-64	55.1	202.9	
		12-21-64	59.9	198.1	
		1-27-65	55.0	203.0	
		2-23-65	56.9	201.1	
		3-22-65	54.0	204.0	
		4-26-65	55.8	202.2	
		5-24-65	55.8	202.2	
		6-21-65	54.5	203.5	
13S/18E-16D01 M	253.0	10-07-64	56.0	197.0	6001
		2-09-65	63.8	189.2	
13S/18E-34D01 M	245.0	7-27-64	63.9	181.1	6001
		8-24-64	70.1	174.9	
		9-23-64	62.7	182.3	
		10-26-64	63.0	182.0	
		11-23-64	66.4	178.6	
		12-21-64	70.8	174.2	
		1-27-65	62.1	182.9	
		2-23-65	66.7	178.3	
		3-22-65	65.8	179.2	
		4-26-65	67.5	177.5	
		5-24-65	67.5	177.5	
		6-21-65	63.0	182.0	
13S/19E-09Q01 M	288.2	7-29-64	66.2	222.0	5631
		8-26-64	68.6	219.6	
		9-26-64	66.6	221.6	
		10-28-64	67.6	220.6	
		11-28-64	68.2	220.0	
		12-31-64	68.5	219.7	
		2-01-65	68.2	220.0	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO IRRIGATION DISTRICT		5-22.15			
13S/19E-09Q01 M CONT.	288.2	2-26-65	70.5	217.7	5631
		4-01-65	66.3	221.9	
		5-04-65	68.8	219.4	
		5-26-65	67.7	220.5	
		6-29-65	66.7	221.5	
13S/19E-16K01 M	290.0	7-27-64	75.5	214.5	6001
		8-24-64	75.5	214.5	
		9-23-64	75.7	214.3	
		10-26-64	76.0	214.0	
		11-23-64	76.2	213.8	
		12-21-64	78.2	211.8	
		1-27-65	75.9	214.1	
		2-23-65	85.0	205.0	
		3-22-65	□		
		4-26-65	77.5	212.5	
		5-24-65	80.1	209.9	
		6-21-65	74.3	215.7	
13S/20E-02L01 M	336.7	7-28-64	87.1	249.6	5631
		8-26-64	80.0	256.7	
		10-01-64	DRY		
		10-26-64	DRY		
		11-27-64	80.8	255.9	
		12-30-64	80.0	256.7	
		1-28-65	79.6	257.1	
		2-27-65	81.2	255.5	
		4-01-65	88.0	248.7	
		5-04-65	85.0	251.7	
		5-28-65	83.2	253.5	
		6-28-65	81.8	254.9	
13S/21E-23D01 M	364.0	7-28-64	30.9	333.1	5631
		8-26-64	37.4	326.6	
		9-30-64	42.4	321.6	
		10-27-64	42.2	321.8	
		11-25-64	40.7	323.3	
		12-30-64	40.1	323.9	
		1-28-65	35.9	328.1	
		2-26-65	34.2	329.8	
		4-01-65	36.4	327.6	
		5-04-65	32.0	332.0	
		5-27-65	28.7	335.3	
		6-28-65	28.2	335.8	
13S/23E-31P01 M	406.5	3-01-65	31.5	375.0	5631

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO IRRIGATION DISTRICT			5-22.15		
14S/18E-08J01 M	227.4	7-29-64	71.5	155.9	5631
		8-26-64	72.0	155.4	
		9-28-64	¤		
		10-30-64	82.2	145.2	
		11-28-64	76.2	151.2	
		12-30-64	74.3	153.1	
		1-29-65	72.4	155.0	
		2-27-65	74.9	152.5	
		4-01-65	68.2	159.2	
		5-04-65	67.0	160.4	
		5-26-65	68.7	158.7	
		6-29-65	69.6	157.8	
14S/19E-20B02 M	247.2	7-29-64	53.8	193.4	5631
		8-26-64	63.0	184.2	
		9-28-64	60.8	186.4	
		10-29-64	59.2	188.0	
		11-28-64	57.7	189.5	
		12-28-64	57.0	190.2	
		1-29-65	58.0	189.2	
		2-27-65	55.2	192.0	
		4-01-65	54.8	192.4	
		5-04-65	56.6	190.6	
		5-26-65	57.3	189.9	
		6-30-65	55.0	192.2	
14S/20E-06H01 M	282.5	7-29-64	¤		5631
		8-26-64	69.7	212.8	
		9-28-64	69.5	213.0	
		10-29-64	69.3	213.2	
		11-28-64	69.1	213.4	
		12-28-64	70.1	212.4	
		1-30-65	71.4	211.1	
		2-25-65	67.4	215.1	
		4-01-65	¤		
		5-04-65	¤		
		5-27-65	¤		
		6-30-65	#		
14S/21E-14A01 M	334.0	7-30-64	44.7	289.3	5631
		8-26-64	46.8	287.2	
		9-29-64	46.4	287.6	
		10-27-64	47.0	287.0	
		11-25-64	45.8	288.2	
		12-30-64	45.6	288.4	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO IRRIGATION DISTRICT			5-22.15		
14S/21E-14A01 M CONT.	334.0	2-01-65	44.3	289.7	5631
		2-25-65	¤		
		4-01-65	43.6	290.4	
		5-04-65	46.9	287.1	
		5-27-65	44.4	289.6	
		6-30-65	46.6	287.4	
14S/22E-01P01 M	397.0	7-29-64	49.2	347.8	5631
		8-26-64	43.5	353.5	
		9-29-64	44.2	352.8	
		10-27-64	43.9	353.1	
		11-25-64	43.7	353.3	
		12-30-64	43.6	353.4	
		2-01-65	38.3	358.7	
		2-26-65	42.1	354.9	
		4-01-65	42.5	354.5	
		5-04-65	41.7	355.3	
		5-27-65	40.9	356.1	
		6-30-65	42.5	354.5	
15S/20E-13E02 M	282.5	7-28-64	42.2	240.3	5631
		8-26-64	39.4	243.1	
		9-28-64	39.8	242.7	
		10-29-64	39.9	242.6	
		11-28-64	40.9	241.6	
		12-28-64	41.4	241.1	
		2-02-65	41.5	241.0	
		3-02-65	42.3	240.2	
		4-01-65	42.1	240.4	
		5-04-65	41.6	240.9	
		5-27-65	41.1	241.4	
		6-30-65	44.5	238.0	
CITY OF FRESNO			5-22.16		
13S/20E-21J01 M	310.0	3-01-65	86.6	223.4	4200
13S/20E-23B01 M	325.0	7-01-64	90.3	234.7	4200
		7-30-64	93.4	231.6	
		8-26-64	86.8	238.2	
		9-29-64	91.5	233.5	
		10-28-64	91.2	233.8	
		11-25-64	90.4	234.6	
		12-29-64	90.1	234.9	
		1-27-65	90.4	234.6	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CITY OF FRESNO		5-22.16			
13S/20E-23B01 M CONT.	325.0	3-02-65	90.5	234.5	4200
		3-29-65	89.8	235.2	
		4-28-65	91.4	233.6	
		5-27-65	92.9	232.1	
13S/20E-28E01 M	299.3	7-03-64	80.8	218.5	4200
		7-31-64	82.5	216.8	
		8-27-64	83.8	215.5	
		10-30-64	83.8	215.5	
		11-30-64	83.5	215.8	
		12-28-64	83.9	215.4	
		1-29-65	81.7	217.6	
		3-02-65	81.1	218.2	
		3-29-65	80.8	218.5	
		4-28-65	80.0	219.3	
		5-26-65	82.6	216.7	
		6-30-65	84.8	214.5	
13S/20E-35H02 M	305.3	7-02-64	87.3	218.0	4200
		7-31-64	90.1	215.2	
		8-28-64	89.4	215.9	
		9-30-64	87.2	218.1	
		10-30-64	85.9	219.4	
		11-30-64	85.7	219.6	
		12-28-64	82.4	222.9	
		1-28-65	81.3	224.0	
		3-02-65	82.9	222.4	
		3-29-65	82.8	222.5	
		4-28-65	83.3	222.0	
		5-28-65	85.8	219.5	
14S/20E-01D01 M	303.9	7-02-64	80.8	223.1	4200
		7-30-64	82.3	221.6	
		8-27-64	82.5	221.4	
		9-28-64	80.3	223.6	
		10-28-64	78.8	225.1	
		11-30-64	77.8	226.1	
		12-28-64	76.8	227.1	
		1-00-65	*		
14S/20E-10M01 M	291.4	7-01-64	81.3	210.1	4200
		7-30-64	86.8	204.6	
		8-26-64	78.1	213.3	
		9-28-64	86.5	204.9	
		10-28-64	84.6	206.8	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CITY OF FRESNO		5-22.16			
14S/20E-10M01 M CONT.	291.4	11-28-64	83.3	208.1	4200
		12-28-64	80.3	211.1	
		1-28-65	80.0	211.4	
		3-02-65	77.9	213.5	
		3-30-65	77.7	213.7	
		4-29-65	81.2	210.2	
		5-26-65	83.7	207.7	
		6-30-65	86.4	205.0	
FRESNO SLOUGH AREA		5-22.17			
13S/15E-28H01 M	162.0	10-05-64	□		6001
		2-08-65	30.8	131.2	
13S/15E-35D02 M	165.5	7-27-64	65.1	100.4	6001
		8-24-64	72.5	93.0	
		9-23-64	59.1	106.4	
		10-26-64	45.0	120.5	
		11-23-64	37.8	127.7	
		12-21-64	40.9	124.6	
		1-27-65	31.8	133.7	
		2-23-65	53.2	112.3	
		3-22-65	62.1	103.4	
		4-26-65	45.7	119.8	
		5-24-65	62.2	103.3	
		6-21-65	64.7	100.8	
13S/17E-17A01 M	205.0	7-27-64	□		6001
		8-24-64	20.1	184.9	
		9-23-64	20.1	184.9	
		10-26-64	20.9	184.1	
		11-23-64	19.6	185.4	
		12-21-64	19.5	185.5	
		1-27-65	19.1	185.9	
		2-23-65	19.2	185.8	
		3-23-65	19.7	185.3	
		4-26-65	19.7	185.3	
		5-24-65	□		
		6-21-65	□		
14S/15E-25H02 M	160.0	7-27-64	35.2	124.8	6001
		8-24-64	34.9	125.1	
		9-23-64	30.0	130.0	
		10-26-64	25.0	135.0	
		11-23-64	21.4	138.6	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO SLOUGH AREA			5-22.17		
14S/15E-25H02 M CONT.	160.0	12-21-64	20.5	139.5	6001
		1-28-65	20.1	139.9	
		2-23-65	22.5	137.5	
		3-22-65	25.3	134.7	
		4-26-65	23.1	136.9	
		5-24-65	26.4	133.6	
		6-21-65	29.1	130.9	
14S/16E-03C01 M	176.0	7-27-64	46.0	130.0	6001
		8-24-64	49.1	126.9	
		9-23-64	56.1	119.9	
		10-26-64	43.8	132.2	
		11-23-64	37.0	139.0	
		12-21-64	37.8	138.2	
		1-27-65	35.8	140.2	
		2-23-65	40.5	135.5	
		3-22-65	42.0	134.0	
		4-26-65	41.8	134.2	
		5-24-65	46.4	129.6	
		6-21-65	51.0	125.0	
14S/16E-08D01 M	165.0	7-27-64	42.0	123.0	6001
		8-24-64	40.6	124.4	
		9-23-64	40.2	124.8	
		10-26-64	32.5	132.5	
		11-23-64	28.0	137.0	
		12-21-64	27.8	137.2	
		1-27-65	25.0	140.0	
		2-23-65	31.0	134.0	
		3-22-65	41.2	123.8	
		4-26-65	34.8	130.2	
		5-24-65	40.7	124.3	
		6-21-65	41.4	123.6	
14S/16E-22N01 M	163.0	9-29-64	25.6	137.4	6001
		2-08-65	22.0	141.0	
14S/17E-25A01 M	211.0	9-24-64	100.1	110.9	6001
		2-10-65	86.3	124.7	
15S/16E-01L01 M	171.0	9-29-64	43.5	127.5	6001
		1-29-65	39.6	131.4	
15S/16E-12C03 M	171.0	7-27-64	28.5	142.5	6001
		8-24-64	28.6	142.4	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO SLOUGH AREA			5-22.17		
15S/16E-12C03 M CONT.	171.0	9-23-64	28.1	142.9	6001
		10-26-64	28.1	142.9	
		11-23-64	27.4	143.6	
		12-21-64	27.5	143.5	
		1-28-65	28.4	142.6	
		2-23-65	30.0	141.0	
		3-22-65	29.2	141.8	
		4-26-65	29.1	141.9	
		5-24-65	29.5	141.5	
		6-21-65	30.2	140.8	
15S/17E-22R01 M	187.0	10-02-64	94.8	92.2	6001
		1-29-65	81.3	105.7	
15S/17E-35N02 M	182.0	7-27-64	97.0	85.0	6001
		8-24-64	95.0	87.0	
		9-23-64	93.3	88.7	
		10-26-64	88.7	93.3	
		11-23-64	86.4	95.6	
		12-21-64	83.4	98.6	
		1-28-65	82.9	99.1	
		2-23-65	99.5	82.5	
		3-22-65	90.4	91.6	
		4-26-65	88.1	93.9	
		5-24-65	89.3	92.7	
		6-21-65	92.5	89.5	
15S/18E-07A02 M	204.0	7-27-64	105.3	98.7	6001
		8-24-64	113.2	90.8	
		9-23-64	110.5	93.5	
		10-28-64	103.2	100.8	
		11-23-64	99.1	104.9	
		12-21-64	95.7	108.3	
		1-28-65	92.2	111.8	
		2-23-65	91.8	112.2	
		3-22-65	92.5	111.5	
		4-26-65	96.8	107.2	
		5-24-65	96.0	108.0	
		6-21-65	97.7	106.3	
15S/18E-16G01 M	205.8	9-24-64	97.4	108.4	6001
		2-01-65	94.1	111.7	
15S/19E-29C01 M	227.3	10-29-64	109.2	118.1	5631
		3-01-65	104.7	122.6	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO SLOUGH AREA			5-22.17		
16S/17E-23N01 M	185.0	9-25-64	159.1	25.9	6001
		2-02-65	130.0	55.0	
16S/18E-03J01 M	206.0	7-24-64	¤		5050
		8-26-64	¤		
		9-28-64	¤		
		10-27-64	¤		
		11-24-64	96.0	110.0	
		12-30-64	95.5	110.5	
		1-29-65	98.9	107.1	
		3-03-65	¤		
		4-07-65	102.4	103.6	
		5-05-65	105.7	100.3	
		6-01-65	¤		
		6-25-65	¤		
16S/18E-27C01 M	198.0	2-03-65	96.2	101.8	5050
16S/18E-31D02 M	191.0	7-24-64	100.3	90.7	5050
		8-26-64	118.8	72.2	
		9-28-64	128.3	62.7	
		10-27-64	105.8	85.2	
		11-24-64	101.8	89.2	
		12-30-64	103.8	87.2	
		1-29-65	119.3	71.7	
		3-03-65	125.8	65.2	
		4-07-65	119.8	71.2	
		5-05-65	131.0	60.0	
		6-01-65	111.8	79.2	
		6-25-65	101.5	89.5	
16S/19E-34P01 M	220.0	7-24-64	99.5	120.5	5050
		8-26-64	99.0	121.0	
		9-28-64	95.6	124.4	
		10-27-64	92.8	127.2	
		11-24-64	90.3	129.7	
		12-30-64	89.0	131.0	
		1-29-65	87.0	133.0	
		3-03-65	¤		
		4-07-65	93.5	126.5	
		5-05-65	99.3	120.7	
		6-01-65	¤		
		6-25-65	¤		
17S/17E-12H01 M	199.0	2-05-65	156.7	42.3	5050
FRESNO SLOUGH AREA			5-22.17		
17S/18E-23A02 M	200.0	2-05-65	66.0	134.0	5050
CONSOLIDATED IRRIGATION DISTRICT			5-22.18		
14S/22E-22N01 M	355.7	7-01-64	34.0	321.7	4636
		7-30-64	33.8	321.9	
		8-31-64	34.7	321.0	
		9-30-64	34.4	321.3	
		11-05-64	33.6	322.1	
		12-03-64	33.4	322.3	
		1-04-65	33.6	322.1	
		2-01-65	33.6	322.1	
		3-01-65	33.7	322.0	
		4-02-65	34.0	321.7	
		4-29-65	33.5	322.2	
		5-27-65	33.5	322.2	
		6-30-65	33.1	322.6	
15S/19E-24N01 M	245.7	7-01-64	81.6	164.1	4636
		7-30-64	83.3	162.4	
		8-31-64	82.1	163.6	
		9-30-64	81.6	164.1	
		11-05-64	81.5	164.2	
		12-03-64	80.5	165.2	
		1-04-65	79.1	166.6	
		2-01-65	78.2	167.5	
		3-01-65	78.0	167.7	
		4-02-65	83.6	162.1	
		4-29-65	83.2	162.5	
		5-27-65	86.3	159.4	
		6-30-65	88.0	157.7	
15S/20E-28A01 M	264.8	7-01-64	58.0	206.8	4636
		7-30-64	58.9	205.9	
		8-31-64	56.9	207.9	
		9-30-64	55.6	209.2	
		11-05-64	56.0	208.8	
		12-03-64	55.0	209.8	
		1-04-65	54.6	210.2	
		2-01-65	54.4	210.4	
		3-01-65	54.7	210.1	
		4-02-65	58.6	206.2	
		4-29-65	58.6	206.2	
		5-27-65	59.3	205.5	
		6-30-65	60.8	204.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CONSOLIDATED IRRIGATION DISTRICT 5-22.18					
15S/21E-15D01 M	301.2	7-01-64	35.0	266.2	4636
		7-30-64	37.6	263.6	
		8-31-64	40.1	261.1	
		9-30-64	37.0	264.2	
		11-05-64	36.7	264.5	
		12-03-64	35.8	265.4	
		1-04-65	35.7	265.5	
		2-01-65	35.4	265.8	
		3-01-65	35.3	265.9	
		4-02-65	36.1	265.1	
		4-29-65	36.4	264.8	
		5-27-65	37.2	264.0	
		6-30-65	37.7	263.5	
15S/22E-16A01 M	337.0	7-01-64	36.8	300.2	4636
		7-30-64	36.9	300.1	
		8-31-64	36.0	301.0	
		9-30-64	35.4	301.6	
		11-05-64	35.8	301.2	
		12-03-64	35.9	301.1	
		1-04-65	36.2	300.8	
		2-01-65	36.4	300.6	
		3-01-65	36.0	301.0	
		4-02-65	37.8	299.2	
		4-29-65	36.7	300.3	
		5-27-65	37.2	299.8	
		6-30-65	35.8	301.2	
15S/22E-29D01 M	321.9	7-01-64	39.9	282.0	4636
		7-30-64	40.5	281.4	
		8-31-64	40.0	281.9	
		9-30-64	39.6	282.3	
		11-05-64	40.0	281.9	
		12-03-64	40.1	281.8	
		1-04-65	40.2	281.7	
		2-01-65	40.3	281.6	
		3-01-65	40.2	281.7	
		4-02-65	41.2	280.7	
		4-29-65	41.1	280.8	
		5-27-65	40.7	281.2	
		6-30-65	39.6	282.3	
16S/19E-14A01 M	235.5	7-01-64	88.3	147.2	4636
		7-30-64	91.0	144.5	
		8-31-64	90.0	145.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CONSOLIDATED IRRIGATION DISTRICT 5-22.18					
16S/19E-14A01 M CONT.	235.5	9-30-64	88.9	146.6	4636
		11-05-64	87.5	148.0	
		12-03-64	83.1	152.4	
		1-04-65	81.5	154.0	
		2-01-65	80.7	154.8	
		3-01-65	82.9	152.6	
		4-02-65	87.7	147.8	
		4-29-65	89.3	146.2	
		5-27-65	91.7	143.8	
		6-30-65	93.6	141.9	
16S/20E-22N01 M	247.7	7-01-64	68.2	179.5	4636
		7-30-64	70.9	176.8	
		8-31-64	72.9	174.8	
		9-30-64	69.5	178.2	
		11-05-64	68.1	179.6	
		12-03-64	66.9	180.8	
		1-04-65	66.1	181.6	
		2-01-65	65.4	182.3	
		3-01-65	65.0	182.7	
		4-02-65	67.3	180.4	
		4-29-65	67.9	179.8	
		5-27-65	69.7	178.0	
		6-30-65	69.8	177.9	
16S/21E-22N01 M	271.0	7-01-64	52.0	219.0	4636
		7-30-64	55.8	215.2	
		8-31-64	56.3	214.7	
		9-30-64	55.1	215.9	
		11-05-64	54.8	216.2	
		12-03-64	50.8	220.2	
		1-04-65	50.1	220.9	
		2-01-65	49.7	221.3	
		3-01-65	50.5	220.5	
		4-02-65	52.4	218.6	
		4-29-65	52.4	218.6	
		5-27-65	54.7	216.3	
		6-30-65	56.7	214.3	
16S/22E-23R01 M	297.5	7-01-64	28.5	269.0	4636
		7-30-64	28.4	259.1	
		8-31-64	28.6	268.9	
		9-30-64	28.5	269.0	
		11-05-64	36.4	261.1	
		12-03-64	28.7	268.8	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CONSOLIDATED IRRIGATION DISTRICT			5-22.18		
16S/22E-23R01 M CONT.	297.5	1-04-65	28.8	268.7	4636
		2-01-65	28.8	268.7	
		3-01-65	28.9	268.6	
		4-02-65	29.0	268.5	
		4-29-65	29.0	268.5	
		5-27-65	29.1	268.4	
		6-30-65	29.2	268.3	
17S/22E-03C01 M	286.0	7-01-64	29.2	256.8	4636
		7-30-64	31.6	254.4	
		8-31-64	30.9	255.1	
		9-30-64	30.0	256.0	
		11-05-64	31.1	254.9	
		12-03-64	29.7	256.3	
		1-04-65	29.4	256.6	
		2-01-65	29.0	257.0	
		3-01-65	28.3	257.7	
		4-02-65	30.5	255.5	
		4-29-65	29.4	256.6	
		5-27-65	27.4	258.6	
		6-30-65	22.3	263.7	
ALTA IRRIGATION DISTRICT			5-22.19		
14S/23E-36R01 M	391.0	7-28-64	¤		4637
		8-29-64	¤		
		9-29-64	¤		
		10-26-64	70.8	320.2	
		11-28-64	66.6	324.4	
		12-31-64	65.7	325.3	
		1-28-65	64.5	326.5	
		2-26-65	58.8	332.2	
		3-30-65	64.0	327.0	
		4-28-65	60.8	330.2	
		5-29-65	54.6	336.4	
		6-30-65	48.1	342.9	
14S/24E-31P01 M	395.0	2-25-65	57.4	337.6	4637
15S/23E-23A02 M	358.0	7-28-64	¤		4637
		8-29-64	61.9	296.1	
		9-29-64	¤		
		10-28-64	58.9	299.1	
		11-28-64	57.0	301.0	
		12-31-64	55.8	302.2	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALTA IRRIGATION DISTRICT			5-22.19		
15S/23E-23A02 M CONT.	358.0	1-28-65	55.1	302.9	4637
		2-26-65	53.9	304.1	
		3-30-65	61.1	296.9	
		4-28-65	58.3	299.7	
		5-29-65	58.5	299.5	
		6-30-65	54.3	303.7	
15S/24E-22D01 M	388.0	7-30-64	40.3	347.7	4637
		8-31-64	47.6	340.4	
		9-29-64	51.2	336.8	
		10-29-64	54.4	333.6	
		11-30-64	53.7	334.3	
		12-31-64	53.5	334.5	
		1-28-65	52.4	335.6	
		2-23-65	47.1	340.9	
		3-30-65	49.3	338.7	
		4-29-65	49.4	338.6	
		5-27-65	42.1	345.9	
		6-29-65	35.6	352.4	
16S/23E-23E01 M	314.0	7-29-64	32.2	281.8	4637
		8-26-64	33.1	280.9	
		9-26-64	32.9	281.1	
		10-27-64	33.0	281.0	
		11-27-64	32.6	281.4	
		12-30-64	32.3	281.7	
		1-29-65	32.2	281.8	
		2-25-65	32.2	281.8	
		3-29-65	34.0	280.0	
		4-27-65	34.3	279.7	
		5-31-65	33.5	280.5	
		6-28-65	31.8	282.2	
16S/24E-21J01 M	336.0	7-27-64	38.8	297.2	4637
		8-25-64	44.2	291.8	
		9-25-64	45.4	290.6	
		10-26-64	44.9	291.1	
		11-27-64	44.1	291.9	
		12-28-64	43.1	292.9	
		1-27-65	42.6	293.4	
		2-23-65	41.8	294.2	
		3-26-65	45.9	290.1	
		4-26-65	44.5	291.5	
		5-29-65	43.5	292.5	
		6-26-65	39.8	296.2	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALTA IRRIGATION DISTRICT		5-22.19			
16S/25E-29A01 M	364.0	7-27-64	¤		4637
		8-25-64	¤		
		9-25-64	¤		
		10-26-64	65.1	298.9	
		11-27-64	59.6	304.4	
		12-28-64	58.2	305.8	
		1-28-65	56.8	307.2	
		2-23-65	55.5	308.5	
		3-26-65	¤		
		4-26-65	60.2	303.8	
		5-31-65	58.7	305.3	
		6-26-65	53.6	310.4	
17S/22E-25A01 M	275.0	7-29-64	¤		4637
		8-26-64	47.8	227.2	
		9-26-64	42.3	232.7	
		10-27-64	38.9	236.1	
		11-25-64	37.3	237.7	
		12-28-64	36.3	238.7	
		1-25-65	35.5	239.5	
		2-24-65	38.5	236.5	
		3-29-65	43.0	232.0	
		4-27-65	37.1	237.9	
		5-27-65	¤		
		6-28-65	¤		
17S/22E-25J01 M	275.0	7-29-64	40.1	234.9	4637
		8-26-64	41.4	233.6	
		9-26-64	40.8	234.2	
		10-27-64	39.2	235.8	
		11-25-64	38.4	236.6	
		12-28-64	36.9	238.1	
		1-25-65	35.9	239.1	
		2-24-65	35.4	239.6	
		3-29-65	37.5	237.5	
		4-27-65	36.2	238.8	
		5-27-65	38.4	236.6	
		6-28-65	38.7	236.3	
17S/24E-15A03 M	302.0	7-28-64	52.0	250.0	6001
		8-25-64	52.7	249.3	
		9-28-64	48.6	253.4	
		10-26-64	50.1	251.9	
		11-23-64	41.0	261.0	
		12-21-64	37.8	264.2	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALTA IRRIGATION DISTRICT		5-22.19			
17S/24E-15A03 M CONT.	302.0	2-01-65	35.1	266.9	6001
		2-24-65	34.3	267.7	
		3-22-65	39.1	262.9	
		4-24-65	37.0	265.0	
		5-27-65	45.4	256.6	
		6-21-65	46.3	255.7	
17S/25E-10C01 M	335.0	2-22-65	48.7	286.3	4637
17S/25E-18R01 M	321.0	2-22-65	69.1	251.9	4637
LOWER KINGS RIVER AREA		5-22.20			
17S/19E-14J01 M	217.0	2-05-65	69.1	147.9	5050
17S/20E-20D01 M	223.0	7-24-64	78.9	144.1	5050
		8-26-64	96.4	126.6	
		9-28-64	75.4	147.6	
		10-27-64	74.0	149.0	
		11-24-64	69.0	154.0	
		12-30-64	65.0	158.0	
		1-29-65	63.0	160.0	
		3-03-65	67.9	155.1	
		4-07-65	70.5	152.5	
		5-05-65	74.2	148.8	
		6-01-65	74.5	148.5	
		6-25-65	¤		
17S/21E-11K01 M	257.0	7-23-64	42.6	214.4	5050
		8-26-64	¤		
		9-28-64	45.1	211.9	
		10-27-64	45.3	211.7	
		11-24-64	45.5	211.5	
		12-30-64	¤		
		1-00-65	¤		
		3-03-65	39.2	217.8	
		4-07-65	43.0	214.0	
		5-05-65	44.0	213.0	
		6-01-65	¤		
		6-25-65	¤		
18S/19E-26E01 M	210.0	2-08-65	6.0	204.0	5050
18S/20E-16A01 M	230.0	2-08-65	7.0	223.0	5050
18S/21E-10R01 M	254.0	8-02-64	89.6	164.4	5129

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LOWER KINGS RIVER AREA			5-22.20		
18S/21E-10R01 M CONT.	254.0	8-29-64	82.0	172.0	5129
		10-01-64	112.1*	141.9	
		10-20-64	69.7	184.3	
		11-01-64	71.2	182.8	
		11-24-64	◻		
		12-30-64	66.0	188.0	5050
		2-01-65	57.9	196.1	
		3-03-65	60.2	193.8	
		4-04-65	64.9	189.1	5129
		5-02-65	70.1	183.9	
		5-30-65	70.8	183.2	
19S/19E-25A01 M	208.0	2-08-65	3.3	204.7	5050
19S/20E-09R01 M	218.5	7-24-64	◻		5050
		8-26-64	128.0	90.5	
		9-25-64	◻		
		10-27-64	◻		
		11-24-64	128.3	90.2	
		12-30-64	120.0	98.5	
		2-08-65	115.5	103.0	
		3-03-65	135.5	83.0	
		4-07-65	137.5	81.0	
		5-05-65	119.5	99.0	
		6-01-65	132.1	86.4	
		6-25-65	128.2	90.3	
20S/20E-09C01 M	206.0	2-04-65	@		5050
20S/22E-19M02 M	211.0	7-24-64	33.9	177.1	5050
		8-26-64	33.5	177.5	
		9-25-64	35.8	175.2	
		10-27-64	33.3	177.7	
		11-24-64	33.4	177.6	
		12-30-64	32.7	178.3	
		2-03-65	33.3	177.7	
		3-03-65	34.0	177.0	
		4-07-65	35.8	175.2	
		5-05-65	32.0	179.0	
		6-01-65	28.5	182.5	
		6-25-65	32.3	178.7	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ORANGE COVE IRRIGATION DISTRICT			5-22.21		
14S/24E-20B01 M	443.0	7-02-64	15.5	427.5	6001
		8-04-64	12.5	430.5	
		9-02-64	12.1	430.9	
		10-01-64	12.3	430.7	
		11-02-64	13.4	429.6	
		12-01-64	15.4	427.6	
		1-04-65	16.4	426.6	
		2-01-65	16.0	427.0	
		3-01-65	14.4	428.6	
		4-05-65	14.2	428.8	
		5-04-65	13.8	429.2	
		6-02-65	◻		
14S/25E-30D01 M	510.0	9-30-64	39.0	471.0	6001
		2-04-65	37.7	472.3	
15S/24E-14D01 M	405.0	7-01-64	24.8	380.2	6001
		8-03-64	24.8	380.2	
		9-03-64	23.3	381.7	
		10-01-64	24.4	380.6	
		11-02-64	24.6	380.4	
		12-01-64	24.1	380.9	
		1-04-65	22.7	382.3	
		2-02-65	19.9	385.1	
		3-01-65	20.7	384.3	
		4-05-65	21.3	383.7	
		5-04-65	19.3	385.7	
		6-02-65	17.8	387.2	
16S/25E-04C02 M	415.0	7-03-64	17.0	398.0	6001
		8-05-64	16.7	398.3	
		9-03-64	16.1	398.9	
		10-02-64	15.6	399.4	
		11-03-64	16.2	398.8	
		12-01-64	16.3	398.7	
		1-04-65	16.7	398.3	
		2-02-65	15.6	399.4	
		3-02-65	15.9	399.1	
		4-05-65	16.3	398.7	
		5-04-65	15.9	399.1	
		6-04-65	16.0	399.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
STONE CORRAL IRRIGATION DISTRICT			5-22.22		
16S/26E-32R01 M	405.0	7-28-64	2.3	402.7	6001
		8-25-64	2.6	402.4	
		9-30-64	2.5	402.5	
		10-26-64	2.4	402.6	
		11-23-64	1.8	403.2	
		12-21-64	1.9	403.1	
		2-03-65	.6	404.4	
		2-24-65	1.5	403.5	
		3-22-65	1.6	403.4	
		4-24-65	1.3	403.7	
		5-27-65	2.0	403.0	
		6-21-65	2.2	402.8	
17S/26E-07R01 M	364.0	7-28-64	8.2	355.8	6001
		8-25-64	7.9	356.1	
		9-28-64	8.0	356.0	
		10-26-64	9.1	354.9	
		11-23-64	9.3	354.7	
		12-21-64	9.4	354.6	
		2-01-65	7.7	356.3	
		2-24-65	7.8	356.2	
		3-22-65	7.8	356.2	
		4-24-65	6.4	357.6	
		5-27-65	6.4	357.6	
		6-21-65	6.5	357.5	
IVANHOE IRRIGATION DISTRICT			5-22.23		
17S/25E-27R01 M	350.0	9-30-64	94.9	255.1	6001
		2-26-65	89.0	261.0	
17S/25E-35M01 M	349.0	7-02-64	¤		6001
		7-31-64	83.9	265.1	
		9-03-64	84.5	264.5	
		9-30-64	85.0	264.0	
		11-03-64	85.0	264.0	
		11-25-64	84.5	264.5	
		1-06-65	83.7	265.3	
		2-01-65	83.0	266.0	
		2-26-65	82.5	266.5	
		4-05-65	82.2	266.8	
		5-04-65	81.5	267.5	
		6-07-65	83.5	265.5	
17S/25E-36G01 M	365.0	7-02-64	80.5	284.5	6001
IVANHOE IRRIGATION DISTRICT			5-22.23		
17S/25E-36G01 M CONT.	365.0	7-31-64	84.2	280.8	6001
		9-03-64	82.1	282.9	
		9-30-64	82.0	283.0	
		11-03-64	81.0	284.0	
		11-25-64	78.7	286.3	
		1-06-65	77.0	288.0	
		2-01-65	75.9	289.1	
		2-26-65	74.5	290.5	
		4-05-65	76.0	289.0	
		5-04-65	74.1	290.9	
		6-07-65	75.3	289.7	
17S/26E-21E01 M	394.0	7-03-64	21.1	372.9	6001
		8-04-64	22.1	371.9	
		9-00-64	¤		
		10-01-64	19.0	375.0	
		11-03-64	20.3	373.7	
		11-25-64	21.0	373.0	
		12-21-64	21.2	372.8	
		2-03-65	21.5	372.5	
		2-26-65	21.2	372.8	
		4-05-65	20.3	373.7	
		5-05-65	20.0	374.0	
		6-08-65	17.0	377.0	
17S/26E-32N01 M	385.0	7-03-64	¤		6001
		8-04-64	69.1	315.9	
		9-04-64	71.0	314.0	
		10-01-64	71.0	314.0	
		11-04-64	70.2	314.8	
		11-25-64	69.5	315.5	
		1-06-65	68.7	316.3	
		2-03-65	67.9	317.1	
		2-26-65	67.0	318.0	
		4-05-65	66.7	318.3	
		5-05-65	68.9	316.1	
		6-08-65	66.5	318.5	
17S/26E-34D01 M	416.0	7-03-64	63.9	352.1	6001
		8-03-64	67.2	348.8	
		9-04-64	68.0	348.0	
		10-01-64	71.0	345.0	
		11-03-64	67.7	348.3	
		11-25-64	64.2	351.8	
		1-06-65	61.5	354.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
IVANHOE IRRIGATION DISTRICT		5-22.23			
17S/26E-34D01 M CONT.	416.0	2-03-65	60.0	356.0	6001
		2-26-65	59.0	357.0	
		4-05-65	59.2	356.8	
		5-05-65	58.0	358.0	
		6-08-65	60.0	356.0	
KAWEAH DELTA WATER CONSERV DIST		5-22.24			
17S/24E-34B01 M	297.5	7-27-64	39.1	258.4	6001
		8-25-64	43.3	254.2	
		9-28-64	45.6	251.9	
		11-03-64	43.8	253.7	
		12-02-64	43.0	254.5	
		1-04-65	47.2	250.3	
		1-29-65	45.1	252.4	
		3-01-65	38.7	258.8	
		4-07-65	39.0	258.5	
		5-03-65	34.1	263.4	
		6-03-65	¤		
17S/25E-15P01 M	340.0	7-28-64	106.3	233.7	6001
		8-25-64	¤		
		9-28-64	102.6	237.4	
		10-26-64	97.9	242.1	
		11-23-64	97.7	242.3	
		12-21-64	94.5	245.5	
		2-01-65	87.8	252.2	
		2-24-65	99.0	241.0	
		3-22-65	99.6	240.4	
		4-24-65	98.7	241.3	
		5-27-65	94.5	245.5	
		6-21-65	104.0	236.0	
17S/26E-17P02 M	385.0	9-28-64	15.5	369.5	6001
		2-02-65	18.6	366.4	
17S/27E-34P01 M	473.0	9-29-64	16.0	457.0	6001
		2-02-65	10.0	463.0	
18S/22E-29A01 M	251.0	9-25-64	86.4	164.6	6001
		2-02-65	79.9	171.1	
18S/22E-36P01 M	245.0	7-27-64	102.0	143.0	6001
		8-24-64	105.9	139.1	
		9-29-64	104.2	140.8	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KAWEAH DELTA WATER CONSERV DIST		5-22.24			
18S/22E-36P01 M CONT.	245.0	11-03-64	99.8	145.2	6001
		12-02-64	94.5	150.5	
		1-04-65	91.1	153.9	
		1-29-65	88.7	156.3	
		3-01-65	87.9	157.1	
		4-07-65	94.0	151.0	
		5-03-65	93.7	151.3	
		6-02-65	94.8	150.2	
18S/23E-12H01 M	282.5	7-27-64	67.6	214.9	6001
		8-24-64	72.1	210.4	
		9-28-64	69.0	213.5	
		11-03-64	65.3	217.2	
		12-02-64	61.4	221.1	
		1-04-65	59.7	222.8	
		1-29-65	57.4	225.1	
		3-01-65	57.1	225.4	
		4-07-65	60.0	222.5	
		5-03-65	58.7	223.8	
		6-02-65	59.2	223.3	
18S/23E-34A01 M	271.0	9-03-64	122.9	148.1	5129
		2-05-65	86.9	184.1	
18S/24E-26A01 M	312.5	9-28-64	72.8	239.7	6001
		2-03-65	69.5	243.0	
18S/25E-12001 M	363.0	10-01-64	55.3	307.7	6001
		2-05-65	51.4	311.6	
18S/25E-33F01 M	338.0	9-28-64	41.5	296.5	6001
		2-03-65	48.8	289.2	
18S/26E-27E01 M	390.0	10-08-64	26.4	363.6	6001
		2-05-65	20.7	369.3	
18S/26E-30N01 M	367.0	7-27-64	26.9	340.1	6001
		8-24-64	29.3	337.7	
		9-28-64	29.6	337.4	
		11-02-64	29.7	337.3	
		12-02-64	29.9	337.1	
		1-04-65	28.7	338.3	
		1-29-65	25.1	341.9	
		3-01-65	23.3	343.7	
		4-07-65	23.4	343.6	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KAWEAH DELTA WATER CONSERV DIST		5-22.24			
18S/26E-30N01 M	367.0	5-03-65	26.7	340.3	6001
CONT.		6-02-65	25.6	341.4	
19S/22E-01N02 M	245.0	9-29-64	76.2	168.8	6001
		2-04-65	76.5	168.5	
19S/22E-19A01 M	235.0	7-27-64	101.9	133.1	6001
		8-24-64	103.2	131.8	
		9-25-64	102.8	132.2	
		10-26-64	102.1	132.9	
		11-23-64	99.0	136.0	
		12-21-64	96.7	138.3	
		2-02-65	93.6	141.4	
		2-24-65	93.3	141.7	
		3-22-65	101.0	134.0	
		4-24-65	95.3	139.7	
		5-28-65	100.7	134.3	
		6-21-65	98.0	137.0	
19S/22E-36E01 M	234.0	7-27-64	106.0	128.0	6001
		8-24-64	107.3	126.7	
		9-25-64	109.0	125.0	
		10-26-64	109.5	124.5	
		11-23-64	109.3	124.7	
		12-21-64	109.0	125.0	
		2-02-65	108.3	125.7	
		2-24-65	109.9	124.1	
		3-22-65	111.9	122.1	
		4-24-65	108.6	125.4	
		5-28-65	110.3	123.7	
		6-21-65	110.5	123.5	
19S/25E-07K01 M	320.0	7-27-64	53.5	266.5	6001
		8-25-64	56.5	263.5	
		9-29-64	58.2	261.8	
		11-02-64	59.2	260.8	
		12-02-64	58.5	261.5	
		1-04-65	59.6	260.4	
		1-29-65	57.0	263.0	
		3-01-65	53.9	266.1	
		4-07-65	50.4	269.6	
		5-03-65	50.7	269.3	
		6-02-65	51.4	268.6	
19S/26E-34R02 M	341.0	7-27-64	◻		6001

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KAWEAH DELTA WATER CONSERV DIST		5-22.24			
19S/26E-34R02 M	341.0	8-24-64	◻		6001
CONT.		9-28-64	122.0	219.0	
		10-26-64	107.6	233.4	
		11-23-64	106.9	234.1	
		12-21-64	108.2	232.8	
		2-01-65	88.2	252.8	
		2-24-65	94.3	246.7	
		3-22-65	◻		
		4-24-65	94.0	247.0	
		5-28-65	109.0	232.0	
		6-21-65	◻		
20S/22E-10C01 M	226.0	9-29-64	140.5	85.5	6001
		2-04-65	126.2	99.8	
20S/25E-14F01 M	304.5	7-27-64	117.5	187.0	6001
		8-24-64	117.3	187.2	
		9-28-64	100.5	204.0	
		10-26-64	93.9	210.6	
		11-23-64	85.6	218.9	
		12-21-64	83.7	220.8	
		2-01-65	79.4	225.1	
		2-24-65	96.5	208.0	
		3-22-65	101.3	203.2	
		4-24-65	87.2	217.3	
		5-28-65	89.5	215.0	
		6-21-65	96.5	208.0	
TULARE IRRIGATION DISTRICT			5-22.25		
19S/23E-14R01 M	270.0	7-28-64	92.5	177.5	6001
		8-27-64	◻		
		10-01-64	94.2	175.8	
		10-29-64	92.7	177.3	
		12-07-64	91.0	179.0	
		1-06-65	90.1	179.9	
		2-02-65	90.0	180.0	
		3-09-65	64.9	205.1	
		4-01-65	87.8	182.2	
		4-26-65	96.7	173.3	
		6-03-65	100.0	170.0	
19S/23E-32H01 M	250.5	10-01-64	107.6	142.9	6001
		2-03-65	109.6	140.9	
19S/24E-16P01 M	290.0	7-28-64	107.2	182.8	6001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TULARE IRRIGATION DISTRICT			5-22.25		
19S/24E-16P01 M CONT.	290.0	8-27-64	□		6001
		9-28-64	□		
		10-29-64	94.9	195.1	
		12-07-64	88.2	201.8	
		1-06-65	102.0	188.0	
		2-02-65	92.3	197.7	
		3-09-65	106.2	183.8	
		4-01-65	99.8	190.2	
		4-26-65	88.0	202.0	
		6-03-65	□		
19S/24E-27001 M	290.0	7-28-64	107.2	182.8	6001
		8-27-64	106.7	183.3	
		10-01-64	97.8	192.2	
		10-29-64	95.0	195.0	
		12-07-64	90.0	200.0	
		1-06-65	88.1	201.9	
		2-01-65	97.8	192.2	
		3-09-65	93.7	196.3	
		4-01-65	91.5	198.5	
		4-26-65	90.4	199.6	
		6-03-65	94.4	195.6	
19S/25E-17J01 M	327.0	7-28-64	□		6001
		8-27-64	□		
		9-28-64	□		
		10-29-64	63.0	264.0	
		12-07-64	62.0	265.0	
		1-06-65	58.7	268.3	
		2-01-65	60.1	266.9	
		3-09-65	87.0	240.0	
		4-01-65	59.7	267.3	
		4-26-65	58.7	268.3	
		6-03-65	58.3	268.7	
20S/23E-08B02 M	241.0	7-28-64	124.6	116.4	6001
		8-27-64	124.8	116.2	
		9-30-64	113.7	127.3	
		10-29-64	113.2	127.8	
		12-07-64	110.8	130.2	
		1-06-65	109.5	131.5	
		2-03-65	109.0	132.0	
		3-09-65	109.0	132.0	
		4-01-65	109.2	131.8	
		4-26-65	112.0	129.0	
TULARE IRRIGATION DISTRICT			5-22.25		
20S/23E-08B02 M CONT.	241.0	6-03-65	112.5	128.5	6001
20S/24E-16H01 M	273.0	7-28-64	132.0	141.0	6001
		8-27-64	□		
		9-29-64	116.3	156.7	
		10-29-64	112.0	161.0	
		12-07-64	95.5	177.5	
		1-06-65	102.4	170.6	
		2-01-65	103.6	169.4	
		3-09-65	107.2	165.8	
		4-01-65	103.2	169.8	
		4-26-65	97.6	175.4	
		6-03-65	117.0	156.0	
20S/24E-30J02 M	250.0	7-28-64	□		6001
		8-27-64	113.9	136.1	
		9-29-64	118.5	131.5	
		10-29-64	104.5	145.5	
		12-07-64	104.7	145.3	
		1-06-65	126.6	123.4	
		2-03-65	99.6	150.4	
		3-09-65	□		
		4-01-65	105.5	144.5	
		4-26-65	111.1	138.9	
		6-03-65	107.5	142.5	
21S/23E-05R01 M	222.0	7-28-64	□		6001
		8-27-64	□		
		9-30-64	113.3	108.7	
		11-06-64	115.1	106.9	
		12-07-64	113.0	109.0	
		1-06-65	103.5	118.5	
		2-03-65	101.8	120.2	
		3-09-65	109.0	113.0	
		4-01-65	102.2	119.8	
		4-26-65	101.0	121.0	
		6-03-65	99.8	122.2	
EXETER IRRIGATION DISTRICT			5-22.26		
18S/26E-25K01 M	436.0	7-27-64	60.5	375.5	6001
		8-24-64	62.9	373.1	
		9-28-64	63.1	372.9	
		10-26-64	64.8	371.2	
		11-23-64	63.0	373.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EXETER IRRIGATION DISTRICT			5-22.26		
18S/26E-25K01 M	436.0	12-21-64	59.5	376.5	6001
CONT.		2-01-65	@		
18S/27E-29D01 M	447.0	7-27-64	33.2	413.8	6001
		8-24-64	34.9	412.1	
		9-28-64	31.1	415.9	
		10-26-64	34.0	413.0	
		11-23-64	33.1	413.9	
		12-21-64	31.2	415.8	
		2-01-65	32.0	415.0	
		2-24-65	31.0	416.0	
		3-22-65	32.0	415.0	
		4-24-65	31.9	415.1	
		5-27-65	27.1	419.9	
		6-21-65	33.0	414.0	
19S/26E-14E01 M	375.0	7-27-64	¤		6001
		8-24-64	¤		
		9-28-64	101.0	274.0	
		10-26-64	100.7	274.3	
		11-23-64	107.1	267.9	
		12-21-64	90.3	284.7	
		2-01-65	90.8	284.2	
		2-24-65	89.7	285.3	
		3-22-65	91.2	283.8	
		4-24-65	89.7	285.3	
		5-28-65	97.8	277.2	
		6-21-65	¤		
19S/26E-23E01 M	359.0	9-30-64	107.7	251.3	6001
		2-00-65	92.5	266.5	
LINDSAY-STRATHMORE IRRIG DIST			5-22.27		
19S/27E-29D01 M	385.0	10-05-64	87.3	297.7	6001
		2-01-65	71.2	313.8	
20S/27E-06B01 M	372.0	7-27-64	61.8	310.2	6001
		8-24-64	61.1	310.9	
		9-28-64	62.5	309.5	
		10-26-64	62.0	310.0	
		11-23-64	62.5	309.5	
		12-21-64	62.4	309.6	
		2-01-65	64.5	307.5	
		2-24-65	64.3	307.7	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LINDSAY-STRATHMORE IRRIG DIST			5-22.27		
20S/27E-06B01 M	372.0	3-22-65	64.6	307.4	6001
CONT.		4-24-65	65.2	306.8	
		5-28-65	63.5	308.5	
		6-21-65	63.5	308.5	
20S/27E-21F01 M	414.0	10-06-64	51.9	362.1	6001
		2-01-65	47.1	366.9	
20S/27E-29J01 M	406.0	10-06-64	50.3	355.7	6001
		2-01-65	45.3	360.7	
LINDMORE IRRIGATION DISTRICT			5-22.28		
20S/26E-01P01 M	360.0	7-27-64	118.0	242.0	6001
		8-24-64	¤		
		9-28-64	122.9	237.1	
		10-26-64	109.4	250.6	
		11-23-64	96.7	263.3	
		12-21-64	89.5	270.5	
		2-01-65	84.6	275.4	
		2-24-65	92.5	267.5	
		3-22-65	91.3	268.7	
		4-24-65	87.0	273.0	
		5-28-65	¤		
		6-21-65	93.7	266.3	
20S/26E-22C02 M	341.0	10-02-64	124.5	216.5	6001
		2-02-65	107.2	233.8	
20S/26E-24K01 M	362.5	7-27-64	85.9	276.6	6001
		8-24-64	85.0	277.5	
		9-28-64	82.3	280.2	
		10-26-64	80.6	281.9	
		11-23-64	77.8	284.7	
		12-22-64	76.3	286.2	
		2-01-65	74.5	288.0	
		2-25-65	73.9	288.6	
		3-22-65	76.7	285.8	
		4-24-65	73.1	289.4	
		5-25-65	74.7	287.8	
		6-21-65	75.2	287.3	
20S/26E-32A01 M	331.5	7-27-64	140.7	190.8	6001
		8-24-64	139.6	191.9	
		9-28-64	130.7	200.8	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LINDMORE IRRIGATION DISTRICT		5-22.28			
20S/26E-32A01 M CONT.	331.5	10-26-64	126.6	204.9	6001
		11-23-64	118.4	213.1	
		12-21-64	109.7	221.8	
		2-01-65	105.4	226.1	
		2-25-65	112.1	219.4	
		3-22-65	121.5	210.0	
		4-24-65	119.1	212.4	
		5-25-65	114.1	217.4	
		6-21-65	119.5	212.0	
20S/27E-29E01 M	392.0	7-27-64	▫		6001
		8-24-64	▫		
		9-28-64	57.1	334.9	
		10-26-64	55.4	336.6	
		11-23-64	56.8	335.2	
		12-22-64	52.5	339.5	
		2-01-65	51.6	340.4	
		2-25-65	51.3	340.7	
		3-22-65	52.0	340.0	
		4-26-65	51.0	341.0	
		5-25-65	51.9	340.1	
		6-21-65	▫		
21S/26E-01001 M	372.0	7-27-64	112.3	259.7	6001
		8-24-64	117.6	254.4	
		9-28-64	91.8	280.2	
		10-26-64	88.7	283.3	
		11-23-64	78.8	293.2	
		12-21-64	75.6	296.4	
		2-02-65	72.6	299.4	
		2-25-65	73.4	298.6	
		3-22-65	80.1	291.9	
		4-26-65	73.1	298.9	
		5-25-65	92.5	279.5	
		6-21-65	97.2	274.8	
21S/27E-02E01 M	429.0	7-27-64	35.7	393.3	6001
		8-24-64	34.5	394.5	
		9-28-64	35.7	393.3	
		10-26-64	36.8	392.2	
		11-23-64	37.2	391.8	
		12-22-64	37.3	391.7	
		2-02-65	37.8	391.2	
		2-25-65	35.7	393.3	
		3-22-65	35.3	393.7	
LINDMORE IRRIGATION DISTRICT		5-22.28			
21S/27E-02E01 M CONT.	429.0	4-26-65	35.8	393.2	6001
		5-25-65	30.3	398.7	
		6-21-65	32.5	396.5	
PORTERVILLE IRRIGATION DISTRICT		5-22.29			
21S/26E-23N01 M	374.0	7-20-64	54.9	319.1	6001
		8-20-64	69.8	304.2	
		9-22-64	71.4	302.6	
		10-20-64	70.8	303.2	
		11-28-64	66.5	307.5	
		12-29-64	64.4	309.6	
		2-01-65	63.0	311.0	
		3-01-65	63.0	311.0	
		3-23-65	65.4	308.6	
		4-21-65	62.9	311.1	
		6-02-65	60.7	313.3	
		6-23-65	63.3	310.7	
21S/27E-21C01 M	409.0	7-27-64	38.7	370.3	6001
		8-24-64	39.9	369.1	
		9-28-64	39.7	369.3	
		10-26-64	38.6	370.4	
		11-23-64	37.5	371.5	
		12-22-64	37.1	371.9	
		2-02-65	36.0	373.0	
		2-25-65	34.8	374.2	
		3-22-65	34.1	374.9	
		4-26-65	32.7	376.3	
		5-25-65	32.0	377.0	
		6-21-65	32.2	376.8	
21S/27E-23N01 M	436.0	9-28-64	54.7	381.3	6001
		2-02-65	43.5	392.5	
21S/27E-28E01 M	420.0	7-21-64	30.1	389.9	6001
		8-20-64	32.3	387.7	
		9-22-64	30.3	389.7	
		10-20-64	20.7	399.3	
		12-01-64	30.6	389.4	
		12-29-64	29.8	390.2	
		2-01-65	21.8	398.2	
		3-01-65	21.8	398.2	
		3-23-65	21.3	398.7	
		4-21-65	21.5	398.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
POPTERVILLE IRRIGATION DISTRICT		5-22.29			
21S/27E-28E01 M	420.0	5-25-65	20.3	399.7	6001
CONT.		6-23-65	22.5	397.5	
22S/26E-01J01 M	395.0	7-20-64	102.7	292.3	6001
		8-20-64	99.7	295.3	
		9-21-64	91.7	303.3	
		10-20-64	87.3	307.7	
		11-30-64	84.0	311.0	
		12-29-64	82.6	312.4	
		2-01-65	82.0	313.0	
		3-01-65	82.0	313.0	
		3-23-65	85.6	309.4	
		4-21-65	100.7	294.3	
		6-02-65	¤		
		6-23-65	87.7	307.3	
22S/27E-10R01 M	467.0	11-30-64	113.6	353.4	6001
		2-01-65	109.9	357.1	
LOWER TULE RIVER IRRIGATION DIST		5-22.30			
21S/23E-22J01 M	221.5	9-29-64	115.5	106.0	6001
		2-04-65	100.7	120.8	
21S/24E-15H01 M	253.0	9-24-64	¤		6001
		1-28-65	63.9	189.1	
21S/24E-31D01 M	230.0	7-07-64	83.5	146.5	6001
		8-03-64	82.7	147.3	
		9-01-64	82.7	147.3	
		9-24-64	83.3	146.7	
		11-03-64	84.6	145.4	
		12-06-64	85.0	145.0	
		1-07-65	85.2	144.8	
		1-29-65	84.6	145.4	
		3-08-65	83.9	146.1	
		4-02-65	84.1	145.9	
		5-03-65	82.9	147.1	
		6-02-65	82.7	147.3	
21S/24E-35M01 M	251.0	7-07-64	96.0	155.0	6001
		8-03-64	95.0	156.0	
		9-01-64	95.9	155.1	
		9-24-64	96.7	154.3	
		11-03-64	96.5	154.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LOWER TULE RIVER IRRIGATION DIST		5-22.30			
21S/24E-35M01 M	251.0	12-06-64	95.8	155.2	6001
CONT.		1-07-65	90.9	160.1	
		1-29-65	90.2	160.8	
		3-08-65	90.7	160.3	
		4-02-65	90.1	160.9	
		5-03-65	91.5	159.5	
		6-02-65	91.7	159.3	
21S/25E-08H01 M	285.0	9-22-64	123.0	162.0	6001
		1-28-65	81.2	203.8	
21S/25E-16A01 M	291.0	7-07-64	54.0	237.0	6001
		8-03-64	60.8	230.2	
		9-02-64	56.5	234.5	
		9-24-64	58.1	232.9	
		11-04-64	59.2	231.8	
		12-06-64	58.5	232.5	
		1-08-65	48.5	242.5	
		1-29-65	47.1	243.9	
		3-08-65	41.4	249.6	
		4-02-65	46.3	244.7	
		5-03-65	40.5	250.5	
		6-02-65	39.8	251.2	
21S/26E-06G02 M	322.0	7-07-64	114.5	207.5	6001
		8-03-64	125.9	196.1	
		9-02-64	122.0	200.0	
		9-22-64	115.0	207.0	
		11-04-64	96.3	225.7	
		12-06-64	88.5	233.5	
		1-08-65	86.8	235.2	
		1-29-65	86.9	235.1	
		3-08-65	111.3	210.7	
		4-01-65	93.6	228.4	
		5-03-65	93.6	228.4	
		6-02-65	91.8	230.2	
21S/26E-10E01 M	350.0	9-02-64	85.2	264.8	6001
		9-22-64	70.8	279.2	
		11-04-64	75.0	275.0	
		12-06-64	70.6	279.4	
		1-08-65	69.9	280.1	
		1-29-65	69.3	280.7	
		3-08-65	70.7	279.3	
		4-01-65	72.5	277.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LOWER TULE RIVER IRRIGATION DIST		5-22.30			
21S/26E-10E01 M	350.0	5-03-65	67.5	282.5	6001
CONT.		6-02-65	68.7	281.3	
21S/26E-10H01 M	359.0	7-07-64	¤		6001
		8-03-64	●		
22S/24E-09A01 M	244.0	7-07-64	¤		6001
		8-03-64	135.5	108.5	
		9-01-64	128.8	115.2	
		9-24-64	128.0	116.0	
		11-04-64	124.5	119.5	
		12-06-64	121.0	123.0	
		1-07-65	113.3	130.7	
		1-29-65	114.4	129.6	
		3-08-65	115.1	128.9	
		4-02-65	116.7	127.3	
		5-03-65	118.9	125.1	
		6-02-65	116.5	127.5	
22S/24E-15A01 M	251.5	9-24-64	150.2	101.3	6001
		1-25-65	143.3	108.2	
22S/25E-10E01 M	296.0	7-07-64	116.5	179.5	6001
		8-03-64	114.6	181.4	
		9-02-64	115.4	180.6	
		9-23-64	109.5	186.5	
		11-04-64	113.6	182.4	
		12-06-64	113.0	183.0	
		1-07-65	111.3	184.7	
		1-29-65	109.9	186.1	
		3-08-65	109.8	186.2	
		4-02-65	109.8	186.2	
		5-03-65	107.8	188.2	
		6-02-65	107.6	188.4	
22S/25E-15A01 M	300.5	9-23-64	128.4	172.1	6001
		1-25-65	129.4	171.1	
22S/26E-06A01 M	337.0	10-06-64	138.1	198.9	6001
		2-03-65	127.0	210.0	
22S/26E-06F04 M	331.0	7-07-64	149.5	181.5	6001
		7-20-64	148.7	182.3	
		9-02-64	146.4	184.6	
		9-23-64	142.5	188.5	
LOWER TULE RIVER IRRIGATION DIST		5-22.30			
22S/26E-06F04 M	331.0	11-04-64	138.3	192.7	6001
CONT.		12-06-64	126.4	204.6	
		1-07-65	124.1	206.9	
		1-29-65	124.6	206.4	
		3-08-65	131.7	199.3	
		4-02-65	129.2	201.8	
		5-03-65	122.6	208.4	
		6-02-65	121.6	209.4	
VANDALIA IRRIGATION DISTRICT		5-22.31			
22S/28E-07Q01 M	524.0	7-27-64	136.3	387.7	6001
		8-24-64	141.4	382.6	
		9-28-64	135.0	389.0	
		10-26-64	132.0	392.0	
		11-23-64	130.1	393.9	
		12-21-64	126.6	397.4	
		2-02-65	124.0	400.0	
		2-25-65	122.9	401.1	
		3-22-65	124.7	399.3	
		4-26-65	125.0	399.0	
		5-25-65	129.4	394.6	
		6-21-65	129.1	394.9	
22S/28E-18A01 M	535.0	7-27-64	142.8	392.2	6001
		8-24-64	137.7	397.3	
		9-28-64	134.0	401.0	
		10-26-64	136.0	399.0	
		11-23-64	117.4	417.6	
		12-22-64	112.5	422.5	
		2-02-65	108.1	426.9	
		2-25-65	106.3	428.7	
		3-22-65	109.9	425.1	
		4-26-65	109.7	425.3	
		5-25-65	125.8	409.2	
		6-21-65	139.3	395.7	
SAUCELITO IRRIGATION DISTRICT		5-22.32			
22S/26E-12R02 M	396.0	9-22-64	117.7	278.3	6001
		2-01-65	114.4	281.6	
22S/26E-15J01 M	371.0	7-27-64	¤		6001
		8-24-64	¤		
		9-29-64	146.1	224.9	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAUCELITO IRRIGATION DISTRICT			5-22.32		
22S/26E-15J01 M CONT.	371.0	10-26-64	143.5	227.5	6001
		11-23-64	136.6	234.4	
		12-21-64	136.2	234.8	
		2-01-65	130.5	240.5	
		2-25-65	133.5	237.5	
		3-22-65	136.6	234.4	
		4-26-65	136.8	234.2	
		5-25-65	137.0	234.0	
		6-21-65	¤		
22S/26E-32E01 M	339.0	7-27-64	¤		6001
		8-24-64	218.2	120.8	
		9-29-64	212.2	126.8	
		10-26-64	207.6	131.4	
		11-23-64	202.0	137.0	
		12-21-64	201.5	137.5	
		2-01-65	186.7	152.3	
		2-24-65	199.2	139.8	
		3-22-65	197.1	141.9	
		4-26-65	203.4	135.6	
		5-25-65	194.3	144.7	
		6-21-65	206.1	132.9	
23S/26E-02R01 M	397.0	10-07-64	166.3	230.7	6001
		2-04-65	156.0	241.0	
23S/26E-03R01 M	381.0	7-27-64	¤		6001
		8-24-64	204.4	176.6	
		9-24-64	191.2	189.8	
		10-26-64	189.3	191.7	
		11-23-64	175.1	205.9	
		12-21-64	177.2	203.8	
		1-28-65	181.0	200.0	
		2-25-65	178.0	203.0	
		3-22-65	179.6	201.4	
		4-26-65	172.3	208.7	
		5-24-65	175.7	205.3	
		6-22-65	¤		
PIXLEY IRRIGATION DISTRICT			5-22.33		
22S/25E-25N01 M	310.0	7-28-64	218.3	91.7	6001
		8-24-64	222.5	87.5	
		9-29-64	213.2	96.8	
		10-26-64	209.1	100.9	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PIXLEY IRRIGATION DISTRICT			5-22.33		
22S/25E-25N01 M CONT.	310.0	11-23-64	198.1	111.9	6001
		12-21-64	193.0	117.0	
		2-01-65	186.6	123.4	
		2-24-65	192.5	117.5	
		3-22-65	196.9	113.1	
		4-26-65	192.0	118.0	
		5-25-65	196.6	113.4	
		6-21-65	206.5	103.5	
23S/23E-02B01 M	207.0	9-25-64	¤		6001
		1-29-65	¤		
23S/24E-16R01 M	222.0	7-28-64	134.6	87.4	6001
		8-26-64	137.5	84.5	
		9-25-64	136.1	85.9	
		10-27-64	135.0	87.0	
		11-23-64	131.8	90.2	
		12-21-64	128.5	93.5	
		1-29-65	125.3	96.7	
		2-24-65	125.5	96.5	
		3-23-65	127.7	94.3	
		4-28-65	127.5	94.5	
		5-24-65	129.5	92.5	
		6-22-65	131.3	90.7	
23S/25E-09Q02 M	278.0	7-27-64	DRY		6001
		8-24-64	DRY		
		9-24-64	DRY		
		10-26-64	197.3	80.7	
		11-23-64	172.9	105.1	
		12-21-64	163.5	114.5	
		1-28-65	154.9	123.1	
		2-24-65	164.8	113.2	
		3-22-65	176.1	101.9	
		4-26-65	163.0	115.0	
		5-24-65	173.9	104.1	
		6-22-65	195.5	82.5	
23S/25E-14C01 M	300.0	9-24-64	61.0	239.0	6001
		1-28-65	65.3	234.7	
23S/25E-15J02 M	291.0	7-27-64	¤		6001
		8-24-64	¤		
		9-24-64	¤		
		10-26-64	¤		

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PIXLEY IRRIGATION DISTRICT			5-22.33		
23S/25E-15J02 M	291.0	11-23-64	178.5	112.5	6001
CONT.		12-21-64	188.0	103.0	
		1-28-65	160.6	130.4	
		2-24-65	172.0	119.0	
		3-22-65	181.0	110.0	
		4-26-65	183.3	107.7	
		5-24-65	183.0	108.0	
		6-22-65	208.0	83.0	
23S/25E-16N03 M	263.0	7-23-64	243.8	19.2	5000
		8-17-64	¤		
		9-23-64	238.6	24.4	
		10-13-64	198.8	64.2	
		11-13-64	171.2	91.8	
		12-14-64	155.8	107.2	
		1-12-65	147.6	115.4	
		2-11-65	¤		
		3-14-65	164.8	98.2	
		4-09-65	166.8	96.2	
		5-05-65	160.2	102.8	
		6-03-65	168.9	94.1	
23S/25E-16N04 M	263.0	7-23-64	103.8	159.2	5000
		8-17-64	104.7	158.3	
		9-16-64	102.8	160.2	
		10-13-64	100.7	162.3	
		11-13-64	99.4	163.6	
		12-14-64	98.2	164.8	
		1-12-65	97.6	165.4	
		2-11-65	97.3	165.7	
		3-14-65	97.6	165.4	
		4-09-65	97.3	165.7	
		5-05-65	97.3	165.7	
		6-03-65	99.0	164.0	
23S/25E-17003 M	269.0	7-23-64	107.1	161.9	5000
		8-17-64	108.2	160.8	
		9-16-64	107.9	161.1	
		10-13-64	105.6	163.4	
		11-13-64	104.2	164.8	
		12-14-64	103.2	165.8	
		1-12-65	103.0	166.0	
		2-11-65	102.7	166.3	
		3-14-65	102.7	166.3	
		4-10-65	103.0	166.0	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PIXLEY IRRIGATION DISTRICT			5-22.33		
23S/25E-17003 M	269.0	5-05-65	102.6	166.4	5000
CONT.		6-03-65	102.7	166.3	
23S/26E-08R01 M	345.0	7-27-64	196.5	148.5	6001
		8-24-64	198.2	146.8	
		9-29-64	194.6	150.4	
		10-26-64	192.5	152.5	
		11-23-64	188.7	156.3	
		12-21-64	187.8	157.2	
		1-28-65	183.0	162.0	
		2-24-65	188.4	156.6	
		3-22-65	185.1	159.9	
		4-26-65	184.8	160.2	
		5-24-65	182.1	162.9	
		6-22-65	186.2	158.8	
ALPAUGH-ALLENSWORTH AREA			5-22.34		
22S/23E-28L01 M	195.0	7-28-64	¤		6001
		8-26-64	¤		
		9-28-64	114.2	80.8	
		10-27-64	99.9	95.1	
		11-24-64	86.7	108.3	
		12-21-64	100.1	94.9	
		1-29-65	95.5	99.5	
		2-24-65	102.0	93.0	
		3-23-65	121.0	74.0	
		4-28-65	83.8	111.2	
		5-24-65	83.6	111.4	
		6-22-65	122.7	72.3	
23S/23E-33A01 M	210.0	7-28-64	13.9	196.1	6001
		8-26-64	13.8	196.2	
		9-25-64	13.7	196.3	
		10-27-64	14.0	196.0	
		11-24-64	14.1	195.9	
		12-21-64	14.0	196.0	
		1-29-65	14.0	196.0	
		2-24-65	13.6	196.4	
		3-23-65	13.8	196.2	
		4-28-65	13.7	196.3	
		5-24-65	13.4	196.6	
		6-22-65	13.5	196.5	
23S/23E-33A04 M	210.0	9-25-64	77.7	132.3	6001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALPAUGH-ALLENSWORTH AREA			5-22.34		
23S/23E-33A04 M CONT.	210.0	1-29-65	76.5	133.5	6001
23S/23E-33A05 M	210.0	7-28-64	123.7	86.3	6001
		8-26-64	126.3	83.7	
		9-25-64	128.2	81.8	
		10-27-64	129.6	80.4	
		11-24-64	86.9	123.1	
		12-21-64	78.5	131.5	
		1-29-65	77.7	132.3	
		2-24-65	77.0	133.0	
		3-23-65	76.5	133.5	
		4-28-65	76.5	133.5	
		5-24-65	76.7	133.3	
		6-22-65	76.8	133.2	
24S/23E-21B02 M	204.0	9-24-64	55.4	148.6	6001
		1-28-65	58.0	146.0	
24S/23E-22E01 M	205.0	7-28-64	85.1	119.9	6001
		8-26-64	86.0	119.0	
		9-29-64	85.7	119.3	
		10-27-64	89.8	115.2	
		11-24-64	87.8	117.2	
		12-21-64	87.1	117.9	
		1-28-65	86.0	119.0	
		2-24-65	90.7	114.3	
		3-23-65	86.0	119.0	
		4-28-65	84.7	120.3	
		5-24-65	86.1	118.9	
		6-22-65	86.7	118.3	
24S/23E-34R01 M	206.0	9-24-64	193.0	13.0	6001
		1-28-65	172.0	34.0	
24S/24E-20R01 M	218.0	7-28-64	¤		6001
		8-26-64	¤		
		9-24-64	222.3	- 4.3	
		10-27-64	208.8	9.2	
		11-24-64	185.4	32.6	
		12-21-64	180.7	37.3	
		1-28-65	151.6	66.4	
		2-24-65	170.8	47.2	
		3-23-65	173.0	45.0	
		4-28-65	¤		
		5-24-65	¤		
ALPAUGH-ALLENSWORTH AREA			5-22.34		
24S/24E-20R01 M CONT.	218.0	6-22-65	¤		6001
24S/24E-23Q01 M	235.0	9-24-64	51.0	184.0	6001
		1-28-65	52.0	183.0	
24S/24E-25F01 M	249.0	7-28-64	¤		6001
		8-26-64	¤		
		9-24-64	¤		
		10-27-64	112.5	136.5	
		11-24-64	103.2	145.8	
		12-21-64	104.4	144.6	
		1-28-65	97.0	152.0	
		2-24-65	109.9	139.1	
		3-23-65	¤		
		4-28-65	108.9	140.1	
		5-24-65	¤		
		6-22-65	148.0	101.0	
24S/24E-32K04 M	226.0	7-28-64	145.9	80.1	6001
		8-26-64	148.5	77.5	
		9-24-64	@		
DELANO-EARLIMART IRRIG DIST			5-22.35		
23S/25E-27J02 M	296.0	9-29-64	105.0	191.0	6001
		2-02-65	95.0	201.0	
23S/26E-29P01 M	356.5	9-30-64	200.5	156.0	6001
		2-02-65	187.5	169.0	
23S/27E-28J01 M	533.3	9-24-64	420.8*	112.5	6001
		1-28-65	338.5	194.8	
24S/25E-02H01 M	320.0	7-27-64	103.5	216.5	6001
		8-24-64	103.0	217.0	
		9-24-64	102.3	217.7	
		10-26-64	101.9	218.1	
		11-23-64	101.6	218.4	
		12-21-64	101.3	218.7	
		1-24-65	101.5	218.5	
		2-24-65	102.5	217.5	
		3-23-65	99.2	220.8	
		4-28-65	101.9	218.1	
		5-24-65	102.0	218.0	
		6-22-65	102.2	217.8	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELANO-EARLIMART IRRIG DIST			5-22.35		
24S/25E-10A01 M	304.0	9-29-64	151.5	152.5	6001
		2-03-65	122.5	181.5	
24S/25E-33J01 M	291.5	9-24-64	82.0	209.5	6001
		1-28-65	75.7	215.8	
24S/26E-05R01 M	376.0	10-01-64	189.0	187.0	6001
		2-03-65	179.0	197.0	
24S/26E-20H01 M	378.0	10-02-64	202.0	176.0	6001
		2-04-65	164.0	214.0	
24S/26E-29R02 M	401.0	7-22-64	162.8	238.2	5000
		8-24-64	161.4	239.6	
		9-21-64	151.4	249.6	
		10-20-64	148.7	252.3	
		11-17-64	144.2	256.8	
		12-21-64	138.7	262.3	
		1-26-65	136.9	264.1	
		2-23-65	136.7	264.3	
		3-22-65	141.5	259.5	
		4-19-65	139.9	261.1	
		5-19-65	140.7	260.3	
		6-21-65	144.0	257.0	
24S/26E-32G01 M	396.0	9-30-64	136.5	259.5	6001
		2-04-65	122.5	273.5	
24S/26E-34F01 M	445.0	7-23-64	298.6	146.4	5000
		8-17-64	298.1	146.9	
		9-16-64	277.2	167.8	
		10-13-64	265.3	179.7	
		11-13-64	255.5	189.5	
		12-14-64	241.7	203.3	
		1-12-65	237.1	207.9	
		2-11-65	233.7	211.3	
		3-15-65	238.3	206.7	
		4-09-65	239.6	205.4	
		5-05-65	234.7	210.3	
		6-02-65	244.8	200.2	
24S/27E-31P01 M	526.5	10-02-64	452.5	74.0	6001
		2-06-65	382.5	144.0	
25S/26E-01A02 M	505.5	7-23-64	511.0	- 5.5	5000
DELANO-EARLIMART IRRIG DIST			5-22.35		
25S/26E-01A02 M CONT.	505.5	8-18-64	502.6	2.9	5000
		9-16-64	418.7	86.8	
		10-13-64	406.5	99.0	
		11-13-64	380.0*	125.5	
		12-15-64	345.6	159.9	
		1-12-65	335.3	170.2	
		2-11-65	329.1	176.4	
		3-15-65	345.7	159.8	
		4-09-65	349.6	155.9	
		5-05-65	351.8	153.7	
		6-02-65	346.0	159.5	
25S/26E-10B03 M	430.0	10-06-64	233.5	196.5	6001
		2-05-65	214.5	215.5	
25S/26E-16P01 M	388.0	7-22-64	109.8	278.2	5000
		8-24-64	108.6	279.4	
		9-21-64	107.3	280.7	
		10-20-64	107.0	281.0	
		11-17-64	106.9	281.1	
		12-21-64	108.9	279.1	
		1-26-65	112.2	275.8	
		2-23-65	113.6	274.4	
		3-22-65	114.1	273.9	
		4-19-65	114.6	273.4	
		5-19-65	113.6	274.4	
		6-21-65	111.9	276.1	
25S/27E-22H01 M	750.0	9-24-64	□		6001
		1-28-65	401.5	348.5	
SOUTHERN SAN JOAQUIN MUD			5-22.36		
25S/24E-12A02 M	253.0	7-22-64	□		5000
		8-24-64	□		
		9-21-64	110.6	142.4	
		10-20-64	□		
		11-17-64	102.7	150.3	
		12-21-64	86.6	166.4	
		1-26-65	92.6	160.4	
		2-23-65	90.8	162.2	
		3-22-65	94.5	158.5	
		4-19-65	87.1	165.9	
		5-19-65	□		
		6-21-65	□		

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTHERN SAN JOAQUIN MUD			5-22.36		
25S/25E-06H01 M	259.0	9-21-64	81.3	177.7	6001
		1-26-65	73.0	186.0	
25S/25E-22D01 M	286.0	7-22-64	232.7	53.3	5000
		8-24-64	239.2	46.8	
		9-21-64	227.2	58.8	
		10-20-64	204.2	81.8	
		11-17-64	181.8	104.2	
		12-21-64	159.0	127.0	
		1-26-65	142.6	143.4	
		2-23-65	142.8	143.2	
		3-22-65	161.4	124.6	
		4-19-65	156.6	129.4	
		5-19-65	163.8	122.2	
		6-21-65	177.4	108.6	
25S/25E-35P01 M	322.0	9-21-64	217.2	104.8	6001
		1-26-65	159.6	162.4	
25S/26E-28E01 M	394.0	7-22-64	173.7	220.3	5000
		8-24-64	176.0	218.0	
		9-21-64	169.2	224.8	
		10-20-64	173.2	220.8	
		11-17-64	163.0	231.0	
		12-21-64	162.9	231.1	
		1-26-65	162.8	231.2	
		2-23-65	163.8	230.2	
		3-22-65	170.4	223.6	
		4-19-65	165.1	228.9	
		5-19-65	164.9	229.1	
		6-21-65	164.5	229.5	
25S/26E-28H02 M	414.0	9-22-64	194.5	219.5	6001
		1-27-65	186.0	228.0	
26S/25E-02D01 M	336.0	7-22-64	211.0	125.0	5000
		8-24-64	205.4	130.6	
		9-21-64	179.2	156.8	
		10-20-64	176.0	160.0	
		11-17-64	160.4	175.6	
		12-21-64	151.1	184.9	
		1-26-65	162.8	173.2	
		2-23-65	128.4	207.6	
		3-22-65	137.0	199.0	
		4-19-65	141.4	194.6	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTHERN SAN JOAQUIN MUD			5-22.36		
26S/25E-02D01 M CONT.	336.0	5-19-65	134.9	201.1	5000
		6-21-65	138.0	198.0	
26S/26E-10R01 M	503.0	7-22-64	393.1	109.9	5000
		8-19-64	386.8	116.2	
		9-21-64	381.2	121.8	
		10-20-64	378.2	124.8	
		11-17-64	370.8	132.2	
		12-21-64	368.5	134.5	
		1-26-65	¤		
		2-23-65	¤		
		3-22-65	380.4	122.6	
		4-19-65	372.5	130.5	
		5-19-65	372.4	130.6	
		6-21-65	377.5	125.5	
26S/26E-16P01 M	443.0	9-22-64	318.8	124.2	6001
		1-27-65	294.0	149.0	
26S/26E-29C01 M	411.0	7-22-64	296.8	114.2	5000
		8-19-64	300.3	110.7	
		9-21-64	286.3	124.7	
		10-20-64	279.6	131.4	
		11-17-64	273.4	137.6	
		12-21-64	268.3	142.7	
		1-26-65	262.7	148.3	
		2-23-65	262.1	148.9	
		3-22-65	266.7	144.3	
		4-19-65	263.2	147.8	
		5-19-65	¤		
		6-21-65	¤		
NORTH KERN WATER STORAGE DIST			5-22.37		
26S/24E-12R01 M	298.3	7-22-64	¤		5000
		8-24-64	¤		
		9-23-64	281.4	16.9	
		10-20-64	239.0	59.3	
		11-17-64	204.5	93.8	
		12-21-64	181.5	116.8	
		1-26-65	170.5	127.8	
		2-23-65	¤		
		3-22-65	¤		
		4-19-65	185.5	112.8	
		5-19-65	230.5	67.8	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH KERN WATER STORAGE DIST			5-22.37		
26S/24E-12R01 M	298.3	6-21-65	300.5	- 2.2	5000
CONT.					
26S/25E-15P01 M	346.7	7-22-64	¤		5000
		8-19-64	¤		
		9-23-64	255.9	90.8	
		10-20-64	254.0	92.7	
		11-17-64	210.0	136.7	
		12-21-64	189.0	157.7	
		1-26-65	181.0	165.7	
		2-23-65	¤		
		3-22-65	215.0	131.7	
		4-19-65	190.0	156.7	
		5-19-65	209.0	137.7	
		6-21-65	¤		
26S/25E-15R01 M	352.3	9-03-64	257.6	94.7	8700
26S/25E-31R01 M	336.6	9-17-64	267.1	69.5	8700
		2-02-65	194.1	142.5	
26S/26E-30P01 M	392.0	9-03-64	305.0	87.0	8700
27S/25E-01A01 M	401.0	9-23-64	#		6001
27S/25E-01N01 M	394.0	7-22-64	128.8	265.2	5000
		8-24-64	130.0	264.0	
		9-21-64	131.0	263.0	
		10-20-64	131.6	262.4	
		11-17-64	132.5	261.5	
		12-21-64	133.3	260.7	
		1-26-65	134.4	259.6	
		2-23-65	139.3	254.7	
		3-22-65	131.9	262.1	
		4-19-65	130.2	263.8	
		5-19-65	129.2	264.8	
		6-21-65	123.5	270.5	
27S/26E-06H02 M	416.0	9-21-64	294.6	121.4	6001
		1-27-65	¤		
27S/26E-20D01 M	445.5	7-22-64	¤		5000
		8-24-64	¤		
		9-21-64	¤		
		10-20-64	¤		
		11-17-64	310.0	135.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH KERN WATER STORAGE DIST			5-22.37		
27S/26E-20D01 M	445.5	12-21-64	304.2	141.3	5000
CONT.		1-26-65	298.1	147.4	
		2-23-65	308.6	136.9	
		3-22-65	315.7	129.8	
		4-19-65	¤		
		5-19-65	¤		
		6-21-65	¤		
27S/26E-20E01 M	435.7	9-10-64	¤		8700
27S/27E-30H02 M	527.0	9-23-64	¤		6001
		1-27-65	¤		
28S/25E-13L01 M	361.1	9-22-64	196.1*	165.0	8700
28S/26E-07M01 M	390.0	7-22-64	¤		5000
		8-24-64	¤		
		9-23-64	229.5	160.5	
		10-20-64	247.2	142.8	
		11-17-64	242.7	147.3	
		12-21-64	199.5	190.5	
		1-26-65	209.5	180.5	
		2-23-65	209.3	180.7	
		3-22-65	¤		
		4-19-65	¤		
		5-19-65	¤		
		6-21-65	191.5	198.5	
28S/26E-21H01 M	388.0	7-22-64	166.0	222.0	5000
		8-24-64	168.7	219.3	
		9-21-64	170.2	217.8	
		10-20-64	170.5	217.5	
		11-17-64	170.7	217.3	
		12-21-64	170.8	217.2	
		1-26-55	170.6	217.4	
		2-23-65	169.9	218.1	
		3-23-65	168.2	219.8	
		4-19-65	167.0	221.0	
		5-19-65	166.2	221.8	
		6-21-65	174.4	213.6	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SHAFTER-WASCO IRRIGATION DIST			5-22.38		
27S/24E-01L02 M	322.0	7-22-64	283.3	38.7	5000
		8-24-64	278.6	43.4	
		9-21-64	252.0	70.0	
		10-20-64	234.3	87.7	
		11-17-64	210.0	112.0	
		12-21-64	198.2	123.8	
		1-26-65	187.8	134.2	
		2-23-65	212.5	109.5	
		3-22-65	232.1	89.9	
		4-19-65	211.7	110.3	
		5-19-65	246.9	75.1	
		6-21-65	256.1	65.9	
27S/24E-35C01 M	316.0	9-10-64	228.8*	87.2	8700
27S/25E-28A01 M	375.0	7-22-64	273.0	102.0	5000
		8-24-54	274.0	101.0	
		9-21-64	¤		
		10-20-64	245.8	129.2	
		11-17-64	221.9	153.1	
		12-21-64	215.3	159.7	
		1-26-65	218.6	156.4	
		2-23-65	¤		
		3-22-65	256.1	118.9	
		4-19-65	237.4	137.6	
		5-19-65	¤		
		6-21-65	245.4	129.6	
28S/25E-16D03 M	335.0	7-22-64	¤		5000
		8-24-64	¤		
		9-21-64	¤		
		10-20-64	#		
28S/25E-16P01 M	329.0	11-17-64	196.7	132.3	5000
		12-21-64	175.5	153.5	
		1-26-65	177.2	151.8	
		2-23-65	177.7	151.3	
		3-22-65	181.9	147.1	
		4-19-65	176.6	152.4	
		5-19-65	181.9	147.1	
		6-21-65	128.4	200.6	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KERN RIVER DELTA AREA			5-22.40		
28S/24E-23D01 M	306.0	7-22-64	193.9	112.1	5000
		8-24-64	200.3	105.7	
		9-21-64	194.1	111.9	
		10-20-64	191.0	115.0	
		11-17-64	186.3	119.7	
		12-21-64	186.9	119.1	
		1-26-65	184.1	121.9	
		2-23-65	186.0	120.0	
		3-22-65	190.4	115.6	
		4-19-65	186.4	119.6	
		5-19-65	190.4	115.6	
		6-21-65	195.7	110.3	
28S/25E-34J01 M	326.0	9-22-64	167.0	159.0	6001
		1-25-65	158.0	168.0	
28S/26E-29L01 M	349.0	8-24-64	158.1	190.9	8700
29S/25E-12M03 M	330.0	7-22-64	155.0	175.0	5000
		8-24-64	156.4	173.6	
		9-21-64	¤		
		10-20-64	154.4	175.6	
		11-17-64	147.9	182.1	
		12-21-64	147.8	182.2	
		1-26-65	145.9	184.1	
		2-24-65	146.2	183.8	
		3-23-65	147.6	182.4	
		4-19-65	147.3	182.7	
		5-19-65	150.3	179.7	
		6-21-65	154.8	175.2	
29S/27E-33D01 M	382.0	7-22-64	95.0	287.0	5000
		8-24-64	98.3	283.7	
		9-21-64	96.0	286.0	
		10-20-64	94.0	288.0	
		11-17-64	92.4	289.6	
		12-21-64	95.6	286.4	
		1-26-65	87.7	294.3	
		2-24-65	91.9	290.1	
		3-23-65	95.2	286.8	
		4-11-65	93.3	288.7	
		5-19-65	94.8	287.2	
		6-21-65	103.9	278.1	
29S/27E-34N01 M	385.0	7-22-64	80.2	304.8	5000

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KERN RIVER DELTA AREA		5-22-40			
29S/27E-34N01 M CONT.	385.0	8-24-64	83.0	302.0	5000
		9-21-64	85.4	299.6	
		10-20-64	85.8	299.2	
		11-18-64	89.1	295.9	
		12-21-64	◻		
		1-26-65	◻		
		2-24-65	◻		
		3-23-65	◻		
		4-19-65	◻		
		5-19-65	◻		
		6-22-65	◻		
30S/25E-03H01 M	319.3	9-11-64	115.7*	203.6	8700
		2-05-65	98.7	220.6	
30S/25E-22D01 M	308.5	7-00-64	◻		4640
		8-03-64	66.7	241.8	
		9-02-64	63.2	245.3	
		10-01-64	66.0	242.5	
		10-30-64	64.8	243.7	
		12-01-64	63.6	244.9	
		1-05-65	63.0	245.5	
		3-05-65	63.3	245.2	
		4-03-65	68.1	240.4	
		4-29-65	69.6	238.9	
		6-01-65	71.4	237.1	
		6-30-65	70.7	237.8	
30S/26E-16J01 M	339.1	9-22-64	59.0	280.1	5120
		1-28-65	◻		
30S/26E-22P02 M	338.0	7-22-64	85.2	252.8	5000
		8-24-64	85.6	252.4	
		9-21-64	85.6	252.4	
		10-20-64	89.6	248.4	
		11-17-64	82.6	255.4	
		12-21-64	77.2	260.8	
		1-26-65	78.3	259.7	
		2-24-65	78.9	259.1	
		3-23-65	78.3	259.7	
		4-19-65	77.0	261.0	
		5-19-65	85.2	252.8	
		6-21-65	93.2	244.8	
30S/26E-27A01 M	338.7	9-11-64	87.7*	251.0	8700

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KERN RIVER DELTA AREA		5-22-40			
30S/27E-28A02 M	359.0	9-22-64	◻		5120
		1-28-65	@		
30S/28E-32B01 M	354.4	9-24-64	116.5	237.9	6001
		1-25-65	103.5	250.9	
30S/28E-34R02 M	359.0	7-23-64	100.6	258.4	5000
		8-25-64	104.0	255.0	
		9-22-64	99.6	259.4	
		10-21-64	96.8	262.2	
		11-18-64	94.1	264.9	
		12-21-64	96.0	263.0	
		1-27-65	90.6	268.4	
		2-24-65	93.0	266.0	
		3-23-65	99.4	259.6	
		4-20-65	95.4	263.6	
		5-19-65	97.4	261.6	
		6-22-65	98.9	260.1	
31S/26E-01A01 M	333.0	9-22-64	90.9	242.1	5120
		1-28-65	86.9	246.1	
31S/26E-35D01 M	294.5	9-18-64	55.0	239.5	5120
		1-27-65	58.2	236.3	
31S/27E-04L01 M	341.1	8-24-64	134.6*	206.5	8700
		2-22-65	109.6	231.5	
31S/27E-28H01 M	310.0	7-23-64	◻		5000
		8-25-64	◻		
		9-22-64	120.6	189.4	
		10-21-64	106.9	203.1	
		11-18-64	97.3	212.7	
		12-22-64	79.5	230.5	
		1-26-65	◻		
		2-24-65	◻		
		3-23-65	89.8	220.2	
		4-20-65	74.2	235.8	
		5-20-65	83.2	226.8	
		6-22-65	90.9	219.1	
31S/27E-28J01 M	312.1	9-18-64	63.5	248.6	5120
		1-28-65	69.5	242.6	
31S/28E-30M01 M	314.7	9-11-64	146.0*	168.7	8700

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KERN RIVER DELTA AREA			5-22.40		
32S/26E-36G01 M	378.0	9-16-64	177.2	200.8	5120
		1-20-65	174.2	203.8	
32S/27E-18E01 M	292.6	9-14-64	138.3*	154.3	8700
		2-26-65	127.3	165.3	
32S/28E-04A01 M	303.0	9-23-64	¤		6001
		1-27-65	53.5	249.5	
EDISON-MARICOPA AREA			5-22.41		
29S/29E-33N01 M	578.0	9-23-64	453.0	125.0	6001
		1-27-65	438.0	140.0	
30S/28E-02R01 M	410.0	9-23-64	185.5	224.5	6001
		1-26-65	198.5	211.5	
30S/28E-10N01 M	373.0	7-23-64	38.8	334.2	5000
		8-25-64	34.5	338.5	
		9-22-64	38.9	334.1	
		10-21-64	38.0	335.0	
		11-18-64	38.5	334.5	
		12-22-64	39.5	333.5	
		1-27-65	39.5	333.5	
		2-24-65	39.8	333.2	
		3-23-65	41.2	331.8	
		4-19-65	40.9	332.1	
		5-19-65	41.6	331.4	
		6-22-65	41.7	331.3	
30S/28E-10N04 M	373.0	7-23-64	167.2	205.8	5000
		8-25-64	170.0	203.0	
		9-22-64	166.8	206.2	
		10-21-64	162.7	210.3	
		11-18-64	158.3	214.7	
		12-22-64	154.2	218.8	
		1-27-65	153.2	219.8	
		2-24-65	154.2	218.8	
		3-23-65	156.7	216.3	
		4-19-65	154.6	218.4	
		5-19-65	162.8	210.2	
		6-22-65	167.1	205.9	
30S/29E-05F01 M	515.0	9-23-64	349.5	165.5	6001
		1-27-65	341.0	174.0	
EDISON-MARICOPA AREA			5-22.41		
30S/29E-26A01 M	628.0	9-22-64	464.0	164.0	6001
		1-26-65	448.8	179.2	
30S/30E-20R01 M	791.5	9-22-64	202.4	589.1	5050
		1-26-65	¤		
31S/29E-09A01 M	468.0	9-23-64	¤		6001
		1-27-65	333.3	134.7	
31S/29E-29A01 M	400.0	9-23-64	168.5	231.5	6001
		1-27-65	137.8	262.2	
31S/30E-21G01 M	536.0	9-23-64	¤		6001
		1-25-65	384.0	152.0	
32S/25E-35N02 M	442.5	9-17-64	180.0	262.5	5120
		1-25-65	173.0	269.5	
32S/28E-23R01 M	386.7	9-23-64	¤		6001
		1-27-65	262.5	124.2	
32S/28E-30D04 M	303.0	7-23-64	275.3	27.7	5000
		8-25-64	291.0	12.0	
		9-22-64	272.6	30.4	
		10-21-64	252.8	50.2	
		11-18-64	238.5	64.5	
		12-22-64	226.2	76.8	
		1-27-65	221.5	81.5	
		2-24-65	224.2	78.8	
		3-23-65	248.5	54.5	
		4-20-65	243.0	60.0	
		5-20-65	240.6	62.4	
		6-22-65	258.6	44.4	
32S/29E-16R02 M	470.0	7-23-64	323.8	146.2	5000
		8-25-64	325.4	144.6	
		9-22-64	325.8	144.2	
		10-21-64	324.4	145.6	
		11-18-64	323.5	146.5	
		12-22-64	322.3	147.7	
		1-27-65	321.8	148.2	
		2-24-65	331.7	138.3	
		3-23-65	322.0	148.0	
		4-20-65	322.1	147.9	
		5-19-65	322.6	147.4	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EDISON-MARICOPA AREA			5-22.41		
32S/29E-16R02 M	470.0	6-22-65	324.1	145.9	5000
CONT.					
32S/29E-19H02 M	416.0	7-23-64	200.1	215.9	5000
		8-25-64	197.4	218.6	
		9-22-64	190.5	225.5	
		10-21-64	190.2	225.8	
		11-18-64	190.4	225.6	
		12-22-64	200.1	215.9	
		1-27-65	200.6	215.4	
		2-24-65	200.2	215.8	
		3-23-65	200.3	215.7	
		4-20-65	201.6	214.4	
		5-19-65	200.4	215.6	
		6-22-65	201.0	215.0	
32S/29E-19H03 M	416.0	7-23-64	379.1	36.9	5000
		8-25-64	372.2	43.8	
		9-22-64	338.1	77.9	
		10-21-64	327.4	88.6	
		11-18-64	309.9	106.1	
		12-22-64	303.4	112.6	
		1-27-65	299.4	116.6	
		2-24-65	315.5	100.5	
		3-23-65	333.0	83.0	
		4-20-65	321.8	94.2	
		5-19-65	349.3	66.7	
		6-22-65	361.8	54.2	
32S/29E-21P01 M	473.0	7-23-64	211.1	261.9	5000
		8-25-64	212.4	260.6	
		9-22-64	213.5	259.5	
		10-21-64	212.0	261.0	
		11-18-64	210.7	262.3	
		12-22-64	209.6	263.4	
		1-27-65	210.0	263.0	
		2-24-65	207.4	265.6	
		3-23-65	207.7	265.3	
		4-20-65	207.5	265.5	
		5-19-65	208.0	265.0	
		6-22-65	211.6	261.4	
11N/18W-06P01 S	657.0	9-22-64	◻		6001
		1-26-65	◻		
11N/18W-28D01 S	850.0	9-23-64	126.7	723.3	6001

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EDISON-MARICOPA AREA			5-22.41		
11N/18W-28D01 S	850.0	1-27-65	108.0	742.0	6001
CONT.					
11N/19W-04H01 S	575.9	9-22-64	◻		6001
		1-26-65	◻		
11N/19W-07R03 S	672.0	7-23-64	476.9	195.1	5000
		8-25-64	478.1	193.9	
		9-22-64	474.6	197.4	
		10-21-64	471.2	200.8	
		11-18-64	468.7	203.3	
		12-22-64	467.6	204.4	
		1-27-65	467.0	205.0	
		2-24-65	469.7	202.3	
		3-23-65	479.6	192.4	
		4-20-65	470.9	201.1	
		5-20-65	474.6	197.4	
		6-22-65	482.4	189.6	
11N/20W-07Q01 S	452.3	9-15-64	◻		8700
		2-10-65	496.9	- 44.6	
11N/20W-18F01 S	484.7	9-21-64	348.4	136.3	6001
		1-25-65	324.6	160.1	
11N/20W-24A01 S	730.2	9-15-64	530.6	199.6	8700
		2-10-65	530.6	199.6	
11N/21W-05M01 S	515.9	9-16-64	495.1	20.8	8700
11N/22W-04H01 S	529.0	9-16-64	464.3	64.7	8700
12N/20W-31R01 S	363.0	9-21-64	239.1	123.9	6001
		1-25-65	236.3	126.7	
12N/21W-29N01 S	423.3	9-16-64	323.0	100.3	5120
		1-20-65	318.0	105.3	
12N/23W-28P01 S	498.0	9-21-64	279.0	219.0	5120
		1-21-65	278.0	220.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
BUENA VISTA WATER STORAGE DIST		5-22.42			
27S/22E-16B01 M	238.0	7-23-64	86.5	151.5	5000
		8-25-64	¤		
		9-22-64	81.6	156.4	
		10-21-64	67.2	170.8	
		11-18-64	¤		
		12-22-64	61.2	176.8	
		1-27-65	78.0	160.0	
		2-24-65	84.0	154.0	
		3-23-65	75.8	162.2	
		4-20-65	65.7	172.3	
		5-20-65	73.0	165.0	
		6-22-65	85.9	152.1	
27S/22E-21F02 M	240.0	9-24-64	41.0	199.0	5120
		2-02-65	41.0	199.0	
27S/22E-32H01 M	241.0	7-23-64	111.7	129.3	5000
		8-25-64	122.2	118.8	
		9-22-64	127.7	113.3	
		10-21-64	119.1	121.9	
		11-18-64	111.8	129.2	
		12-00-64	¤		
		1-27-65	104.0	137.0	
		2-24-65	103.6	137.4	
		3-23-65	109.2	131.8	
		4-20-65	111.7	129.3	
		5-20-65	108.4	132.6	
		6-22-65	109.0	132.0	
28S/22E-09D01 M	240.0	7-23-64	21.6	218.4	5000
		8-25-64	23.5	216.5	
		9-22-64	22.9	217.1	
		10-21-64	22.3	217.7	
		11-18-64	21.9	218.1	
		12-22-64	22.6	217.4	
		1-27-65	22.4	217.6	
		2-24-65	23.2	216.8	
		3-23-65	22.9	217.1	
		4-20-65	22.4	217.6	
		5-20-65	22.2	217.8	
		6-22-65	21.5	218.5	
28S/22E-10D02 M	245.0	9-25-64	¤		5120
		2-02-65	22.0	223.0	
28S/22E-36P01 M	253.2	8-03-64	@		4640

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
BUENA VISTA WATER STORAGE DIST		5-22.42			
28S/23E-31R01 M	257.8	9-02-64	76.7	181.1	4640
		3-01-65	¤		
29S/23E-08A01 M	260.3	9-02-64	82.7	177.6	4640
		3-01-65	66.6	193.7	
29S/23E-10P01 M	263.5	8-03-64	92.7	170.8	4640
		9-02-64	73.0	190.5	
		10-01-64	42.9	220.6	
		10-30-64	37.7	225.8	
		12-01-64	44.4	219.1	
		1-05-65	42.9	220.6	
		3-05-65	71.4	192.1	
		4-03-65	47.0	216.5	
		4-29-65	55.9	207.6	
		6-01-65	50.9	212.6	
		6-30-65	76.0	187.5	
29S/23E-27M01 M	270.0	7-23-64	55.6	214.4	5000
		8-25-64	57.9	212.1	
		9-22-64	49.4	220.6	
		10-21-64	49.0	221.0	
		11-18-64	47.6	222.4	
		12-22-64	50.8	219.2	
		1-27-65	49.0	221.0	
		2-24-65	¤		
		3-23-65	50.2	219.8	
		4-20-65	49.8	220.2	
		5-20-65	49.7	220.3	
		6-22-65	¤		
29S/24E-32Q01 M	280.7	8-04-64	¤		4640
		9-02-64	¤		
		10-01-64	64.8	215.9	
		10-30-64	61.5	219.2	
		12-01-64	63.7	217.0	
		1-05-65	65.2	215.5	
		3-05-65	88.6	192.1	
		4-03-65	67.7	213.0	
		4-29-65	¤		
		6-01-65	68.6	212.1	
		6-30-65	82.5	198.2	
30S/23E-01C01 M	276.8	9-02-64	69.8	207.0	4640
		3-01-65	78.3	198.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
BUENA VISTA WATER STORAGE DIST		5-22.42			
30S/24E-02C01 M	287.0	9-02-64	80.1	206.9	4640
		3-01-65	81.3	205.7	
30S/24E-04C01 M	283.0	7-23-64	87.2	195.8	5000
		8-25-64	97.8	185.2	
		9-22-64	70.9	212.1	
		10-21-64	66.8	216.2	
		11-18-64	64.5	218.5	
		12-22-64	65.6	217.4	
		1-27-65	68.8	214.2	
		2-24-65	77.9	205.1	
		3-23-65	74.7	208.3	
		4-20-65	66.8	216.2	
		5-20-65	69.6	213.4	
		6-22-65	83.5	199.5	
31S/25E-27F01 M	283.0	7-23-64	38.4	244.6	5000
		8-25-64	44.6	238.4	
		9-22-64	38.8	244.2	
		10-21-64	52.9	230.1	
		11-18-64	50.5	232.5	
		12-22-64	35.4	247.6	
		1-27-65	30.6	252.4	
		2-24-65	27.3	255.7	
		3-23-65	25.3	257.7	
		4-20-65	28.3	254.7	
		5-20-65	27.6	255.4	
		6-22-65	28.8	254.2	
SEMITROPIC WATER STORAGE DIST		5-22.43			
25S/22E-02N02 M	212.0	7-23-64	74.5	137.5	5000
		8-25-64	76.6	135.4	
		9-22-64	76.4	135.6	
		10-21-64	78.5	133.5	
		11-18-64	78.1	133.9	
		12-22-64	77.0	135.0	
		1-27-65	67.8	144.2	
		2-24-65	70.8	141.2	
		3-24-65	106.8	105.2	
		4-20-65	82.0	130.0	
		5-20-65	80.5	131.5	
		6-22-65	89.0	123.0	
25S/22E-14G01 M	215.0	9-29-64	190.5	24.5	5120
SEMITROPIC WATER STORAGE DIST		5-22.43			
25S/22E-14G01 M CONT.	215.0	2-04-65	157.5	57.5	5120
25S/23E-28D01 M	217.0	7-23-64	93.6	123.4	5000
		8-25-64	97.0	120.0	
		9-22-64	96.6	120.4	
		10-21-64	97.4	119.6	
		11-18-64	93.3	123.7	
		12-22-64	89.3	127.7	
		1-27-65	85.8	131.2	
		2-24-65	86.5	130.5	
		3-24-65	87.9	129.1	
		4-20-65	86.0	131.0	
		5-20-65	88.7	128.3	
		6-22-65	91.5	125.5	
25S/23E-28D03 M	217.0	7-23-64	224.4	- 7.4	5000
		8-25-64	238.2	- 21.2	
		9-22-64	233.4	- 16.4	
		10-21-64	222.4	- 5.4	
		11-18-64	194.6	22.4	
		12-22-64	172.6	44.4	
		1-27-65	155.7	61.3	
		2-24-65	171.2	45.8	
		3-24-65	179.6	37.4	
		4-20-65	164.2	52.8	
		5-20-65	172.8	44.2	
		6-22-65	198.9	18.1	
25S/24E-07R01 M	228.0	9-24-64	108.0	120.0	6001
		1-28-65	92.0	136.0	
25S/24E-15H01 M	248.0	7-22-64	88.8	159.2	5000
		8-24-64	89.5	158.5	
		9-21-64	89.8	158.2	
		10-20-64	89.3	158.7	
		11-17-64	88.8	159.2	
		12-21-64	88.0	160.0	
		1-26-65	88.0	160.0	
		2-23-65	87.2	160.8	
		3-22-65	87.0	161.0	
		4-19-65	87.7	160.3	
		5-19-65	88.1	159.9	
		6-22-65	88.4	159.6	
25S/24E-30H01 M	237.4	9-24-64	□		6001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SEMITROPIC WATER STORAGE DIST		5-22.43			
25S/24E-30H01 M CONT.	237.4	1-28-65	158.7	78.7	6001
26S/21E-14E01 M	244.0	7-23-64	38.5	205.5	5000
		8-25-64	39.0	205.0	
		9-22-64	38.8	205.2	
		10-21-64	38.8	205.2	
		11-18-64	38.5	205.5	
		12-22-64	39.0	205.0	
		1-27-65	39.7	204.3	
		2-24-65	39.0	205.0	
		3-24-65	39.1	204.9	
		4-20-65	39.0	205.0	
		5-20-65	39.1	204.9	
		6-22-65	39.0	205.0	
26S/21E-14J01 M	237.0	9-29-64	27.5	209.5	5120
		2-04-65	29.0	208.0	
26S/22E-10G02 M	224.0	7-23-64	81.9	142.1	5000
		8-25-64	¤		
		9-22-64	¤		
		10-21-64	¤		
		11-18-64	95.3	128.7	
		12-22-64	98.8	125.2	
		1-27-65	75.4	148.6	
		2-24-65	74.7	149.3	
		3-24-65	76.7	147.3	
		4-20-65	74.3	149.7	
		5-20-65	73.1	150.9	
		6-22-65	83.5	140.5	
26S/22E-35E01 M	253.0	9-29-64	¤		5120
		2-04-65	128.0	125.0	
26S/23E-02R01 M	234.9	9-28-64	112.0	122.9	5120
		2-03-65	136.0	98.9	
26S/23E-36F01 M	258.0	9-28-64	#		5120
26S/24E-23H01 M	295.5	9-08-64	307.8*	- 12.3	8700
27S/22E-02001 M	265.0	9-25-64	54.5	210.5	5120
		2-04-65	53.5	211.5	
27S/23E-01R01 M	267.0	7-22-64	115.2	151.8	5000
SEMITROPIC WATER STORAGE DIST		5-22.43			
27S/23E-01R01 M CONT.	267.0	8-24-64	115.0	152.0	5000
		9-21-64	115.1	151.9	
		10-20-64	114.7	152.3	
		11-17-64	113.3	153.7	
		12-21-64	112.0	155.0	
		1-26-65	111.8	155.2	
		2-23-65	111.9	155.1	
		3-22-65	112.5	154.5	
		4-19-65	111.1	155.9	
		5-19-65	111.0	156.0	
		6-21-65	112.8	154.2	
27S/23E-01R04 M	267.0	7-22-64	266.5	0.5	5000
		8-24-64	269.9	- 2.9	
		9-21-64	241.8	25.2	
		10-20-64	222.5	44.5	
		11-18-64	197.5	69.5	
		12-21-64	181.9	85.1	
		1-26-65	176.0	91.0	
		2-23-65	204.7	62.3	
		3-22-65	221.2	45.8	
		4-19-65	189.1	77.9	
		5-19-65	222.0	45.0	
		6-21-65	247.0	20.0	
27S/23E-06L01 M	258.0	9-29-64	47.0	211.0	5120
		2-03-65	44.0	214.0	
28S/23E-11E01 M	255.0	8-03-64	32.7	222.3	4640
		9-02-64	41.6	213.4	
		10-01-64	38.4	216.6	
		10-30-64	35.1	219.9	
		12-01-64	34.6	220.4	
		1-05-65	30.4	224.6	
		3-05-65	35.4	219.6	
		4-03-65	31.4	223.6	
		4-29-65	30.2	224.8	
		6-01-65	32.0	223.0	
		6-30-65	34.5	220.5	
28S/24E-28A01 M	301.1	7-00-64	¤		4640
		8-03-64	¤		
		9-02-64	183.8	117.3	
		10-01-64	176.7	124.4	
		10-30-64	174.2	126.9	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SEMITROPIC WATER STORAGE DIST			5-22.43		
28S/24E-28A01 M CONT.	301.1	12-01-64	¤		4640
		1-05-65	178.5	122.6	
		3-05-65	¤		
		4-03-65	177.5	123.6	
		4-29-65	176.5	124.6	
		6-01-65	181.5	119.6	
		6-30-65	¤		
29S/24E-14R01 M	290.0	9-23-64	101.0	189.0	5120
		2-01-65	109.0	181.0	
AVENAL-MCKITTRICK AREA			5-22.44		
22S/19E-18P02 M	255.0	12-14-64	¤		5050
23S/18E-29E02 M	560.0	7-23-64	133.9	426.1	5000
		8-25-64	138.5	421.5	
		9-22-64	133.8	426.2	
		10-21-64	133.8	426.2	
		11-18-64	134.3	425.7	
		12-22-64	133.6	426.4	
		1-27-65	132.9	427.1	
		2-24-65	133.9	426.1	
		3-24-65	134.2	425.8	
		4-20-65	134.0	426.0	
		5-20-65	134.0	426.0	
		6-22-65	134.3	425.7	
23S/19E-14R01 M	235.0	12-14-64	41.0	194.0	5050
23S/19E-26M01 M	267.0	12-14-64	#		5050
24S/18E-30D01 M	699.0	12-16-64	209.0	490.0	5050
24S/18E-33N01 M	625.0	12-16-64	#		5050
25S/19E-15G01 M	422.0	9-30-64	107.0	315.0	5120
		2-05-65	105.0	317.0	
25S/19E-20Q02 M	480.0	7-23-64	134.6	345.4	5000
		8-25-64	131.0	349.0	
		9-22-64	131.1	348.9	
		10-21-64	131.2	348.8	
		11-18-64	¤		
		12-22-64	131.5	348.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
AVENAL-MCKITTRICK AREA			5-22.44		
25S/19E-20Q02 M CONT.	480.0	1-27-65	130.9	349.1	5000
		2-24-65	137.6	342.4	
		3-24-65	132.2	347.8	
		4-20-65	133.1	346.9	
		5-20-65	132.4	347.6	
		6-22-65	131.9	348.1	
25S/20E-04C01 M	268.0	9-30-64	63.0	205.0	5120
		2-05-65	63.0	205.0	
26S/17E-13L02 M	910.0	9-30-64	158.5	751.5	5120
		2-05-65	159.5	750.5	
26S/18E-16H01 M	685.0	9-30-64	166.0	519.0	5120
		2-05-65	167.0	518.0	
26S/18E-19B02 M	875.0	9-30-64	166.0	709.0	5120
		2-05-65	¤		
26S/18E-27F01 M	730.0	9-30-64	205.7	524.3	5120
		2-05-65	226.2*	503.8	
26S/19E-12L01 M	530.0	9-30-64	209.0	321.0	5120
		2-05-65	210.0	320.0	
27S/18E-15R01 M	1220.0	9-30-64	37.0	1183.0	5120
		2-05-65	37.5	1182.5	
TULARE LAKE-LOST HILLS AREA			5-22.45		
21S/20E-12M01 M	181.0	7-24-64	213.6	- 32.6	5000
		8-26-64	235.7	- 54.7	
		9-23-64	236.4	- 55.4	
		10-22-64	237.7	- 55.7	
		11-18-64	255.0	- 74.0	
		12-23-64	235.1	- 54.1	
		1-28-65	207.2	- 26.2	
		2-25-65	228.4	- 47.4	
		3-24-65	205.5	- 24.5	
		4-21-65	202.6	- 21.6	
		5-20-65	194.0	- 13.0	
		6-23-65	185.4	- 4.4	
21S/20E-27A01 M	178.0	7-24-64	223.4	- 45.4	5000
		8-26-64	¤		

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TULARE LAKE-LOST HILLS AREA		5-22.45			
21S/20E-27A01 M CONT.	178.0	9-23-64	¤		5000
		10-22-64	257.6	- 79.6	
		11-18-64	256.6	- 78.6	
		12-23-64	241.6	- 63.6	
		1-27-65	248.6	- 70.6	
		2-25-65	219.9	- 41.9	
		3-25-65	238.0	- 60.0	
		4-21-65	218.8	- 40.8	
		5-20-65	202.5	- 24.5	
		6-23-65	¤		
25S/21E-22H01 M	217.0	7-23-64	106.5	110.5	5000
		8-25-64	107.7	109.3	
		9-22-64	108.8	108.2	
		10-21-64	111.1	105.9	
		11-18-64	111.8	105.2	
		12-22-64	111.0	106.0	
		1-27-65	110.5	106.5	
		2-24-65	108.5	108.5	
		3-24-65	110.0	107.0	
		4-20-65	109.3	107.7	
		5-20-65	108.4	108.6	
		6-22-65	108.9	108.1	
CORCORAN IRRIGATION DISTRICT		5-22.46			
21S/22E-16L02 M	196.5	7-24-64	47.7	148.8	5050
		8-26-64	51.0	145.5	
		9-25-64	46.5	150.0	
		10-27-64	49.0	147.5	
		11-24-64	46.0	150.5	
		12-30-64	44.9	151.6	
		1-29-65	44.0	152.5	
		3-03-65	51.7	144.8	
		4-07-65	44.6	151.9	
		5-05-65	49.7	146.8	
		6-01-65	45.5	151.0	
		6-25-65	45.5	151.0	
21S/22E-27A01 M	196.0	7-24-64	40.3	155.7	5050
		8-26-64	36.0	160.0	
		9-25-64	35.5	160.5	
		10-27-64	35.5	160.5	
		11-24-64	33.0	163.0	
		12-30-64	32.5	163.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CORCORAN IRRIGATION DISTRICT		5-22.46			
21S/22E-27A01 M CONT.	196.0	1-29-65	31.0	165.0	5050
		3-03-65	39.1	156.9	
		4-07-65	36.0	160.0	
		5-05-65	37.5	158.5	
		6-01-65	31.2	164.8	
		6-25-65	35.8	160.2	
22S/22E-01B02 M	201.0	7-24-64	24.5	176.5	5050
		8-26-64	23.0	178.0	
		9-25-64	14.5	186.5	
		10-27-64	22.0	179.0	
		11-24-64	19.7	181.3	
		12-30-64	21.3	179.7	
		1-29-65	23.5	177.5	
		3-03-65	23.6	177.4	
		4-07-65	21.5	179.5	
		5-05-65	22.2	178.8	
		6-01-65	20.8	180.2	
		6-25-65	26.0	175.0	
22S/22E-08L01 M	188.0	7-24-64	142.0	46.0	5050
		8-26-64	¤		
		9-25-64	¤		
22S/22E-15C01 M	191.0	7-24-64	143.7	47.3	5050
		8-26-64	171.8	19.2	
		9-25-64	182.5	8.5	
		10-27-64	182.5	8.5	
		12-30-64	168.0	23.0	
		1-29-65	159.2	31.8	
		3-03-65	¤		
		4-07-65	152.5	38.5	
		5-05-65	147.8	43.2	
		6-01-65	144.1	46.9	
		6-25-65	142.8	48.2	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA			5-22.47		
13S/12E-05Q01 M	247.0	11-15-64	□		6001
		3-08-65	□		
13S/12E-22N01 M	280.0	11-05-64	200.0	80.0	6001
		3-01-65	197.2	82.8	
13S/13E-10R01 M	211.0	10-22-64	222.3	- 11.3	6001
		2-24-65	217.5	- 6.5	
13S/13E-12A01 M	183.0	10-22-64	5.8	177.2	6001
		2-24-65	6.5	176.5	
13S/13E-15R01 M	222.0	10-22-64	247.0	- 25.0	6001
		2-24-65	248.2	- 26.2	
13S/14E-09J01 M	164.0	10-22-64	DRY		6001
		2-25-65	DRY		
14S/13E-15M01 M	321.0	12-22-64	□		5050
14S/14E-05H01 M	221.0	9-17-64	102.1	118.9	5000
14S/14E-28E02 M	248.0	2-25-65	58.1	189.9	5000
14S/15E-18E02 M	178.0	12-21-64	220.0	- 42.0	5050
14S/15E-35N01 M	161.0	10-01-64	60.5	100.5	6001
		2-08-65	55.3	105.7	
15S/14E-15E01 M	236.0	7-24-64	58.9	177.1	5000
		8-26-64	58.8	177.2	
		9-23-64	58.7	177.3	
		10-22-64	55.1	180.9	
		11-19-64	59.6	176.4	
		12-22-64	59.3	176.7	
		1-28-65	59.3	176.7	
		2-25-65	57.9	178.1	
		3-24-65	58.6	177.4	
		4-21-65	58.3	177.7	
		5-21-65	58.3	177.7	
		6-23-65	58.0	178.0	
15S/14E-15E04 M	236.0	7-24-64	433.4	- 197.4	5000
		8-27-64	443.0	- 207.0	
		9-23-64	434.8	- 198.8	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA			5-22.47		
15S/14E-15E04 M CONT.	236.0	10-22-64	422.2	- 186.2	5000
		11-19-64	412.1	- 176.1	
		12-23-64	406.5	- 170.5	
		1-28-65	418.2	- 182.2	
		2-25-65	427.0	- 191.0	
		3-25-65	429.9	- 193.9	
		4-21-65	425.8	- 189.8	
		5-21-65	417.0	- 181.0	
		6-23-65	418.0	- 182.0	
15S/15E-22001 M	176.0	9-30-64	□		6001
		2-04-65	122.2	53.8	
15S/16E-17L01 M	165.0	7-24-64	34.8	130.2	5000
		8-26-64	36.1	128.9	
		9-23-64	35.2	129.8	
		10-22-64	34.7	130.3	
		11-19-64	35.0	130.0	
		12-23-64	35.0	130.0	
		1-28-65	36.3	128.7	
		2-25-65	36.7	128.3	
		3-25-65	36.7	128.3	
		4-21-65	36.5	128.5	
		5-21-65	36.1	128.9	
		6-23-65	34.6	130.4	
15S/16E-20R01 M	170.0	9-17-64	83.4	86.6	5000
		2-10-65	69.1	100.9	
15S/16E-28A04 M	169.0	7-24-64	175.0	- 6.0	5000
		8-26-64	177.4	- 8.4	
		9-23-64	178.4	- 9.4	
		10-22-64	179.2	- 10.2	
		11-19-64	176.7	- 7.7	
		12-23-64	174.2	- 5.2	
		1-28-65	172.5	- 3.5	
		2-25-65	174.5	- 5.5	
		3-25-65	176.9	- 7.9	
		4-21-65	177.7	- 8.7	
		5-21-65	177.3	- 8.3	
		6-23-65	175.5	- 6.5	
15S/16E-34E01 M	172.0	7-22-64	197.4	- 25.4	5000
		8-19-64	200.3	- 28.3	
		9-15-64	200.9	- 28.9	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA		5-22.47			
15S/16E-34E01 M CONT.	172.0	10-12-64	201.1	- 29.1	5000
		11-12-64	198.9	- 26.9	
		12-11-64	195.8	- 23.8	
		1-11-65	191.0	- 19.0	
		2-10-65	192.5	- 20.5	
		3-10-65	202.4	- 30.4	
		4-08-65	197.6	- 25.6	
		5-04-65	197.5	- 25.5	
		6-01-65	196.2	- 24.2	
16S/14E-16N01 M	498.0	7-22-64	789.0	- 291.0	5000
		8-00-64	¤		
		9-17-64	871.0	- 373.0	
		10-12-64	781.0	- 283.0	
		11-12-64	869.0	- 371.0	
		12-11-64	749.0	- 251.0	
		1-11-65	761.0	- 263.0	
		2-09-65	772.0	- 274.0	
		3-09-65	787.0	- 289.0	
		4-07-65	¤		
		5-04-65	779.0	- 281.0	
		6-01-65	¤		
		6-29-65	783.0	- 285.0	
16S/15E-02N02 M	219.0	10-01-64	104.5	114.5	6001
		2-04-65	91.5	127.5	
16S/16E-10N01 M	187.0	9-28-64	138.9	48.1	6001
		2-02-65	136.0	51.0	
16S/16E-18N01 M	233.0	9-28-64	@		6001
17S/14E-13R01 M	457.0	12-15-64	¤		5050
17S/16E-02E01 M	218.0	9-24-64	237.6	- 19.6	6001
		2-02-65	202.0	16.0	
17S/16E-24R01 M	232.5	9-23-64	186.3	46.2	5000
		2-25-65	198.1	34.4	
17S/16E-30A03 M	290.0	7-24-64	66.5	223.5	5000
		8-26-64	65.2	224.8	
		9-23-64	66.2	223.8	
		10-22-64	66.6	223.4	
		11-19-64	66.0	224.0	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA		5-22.47			
17S/16E-30A03 M CONT.	290.0	12-23-64	66.4	223.6	5000
		1-28-65	66.6	223.4	
		2-25-65	66.2	223.8	
		3-24-65	66.7	223.3	
		4-21-65	66.9	223.1	
		5-21-65	67.0	223.0	
		6-23-65	67.0	223.0	
17S/16E-30A05 M	290.0	7-24-64	376.0	- 86.0	5000
		8-27-64	385.8	- 95.8	
		9-23-64	390.5	- 100.5	
		10-22-64	395.8	- 105.8	
		11-19-64	381.2	- 91.2	
		12-23-64	377.7	- 87.7	
		1-28-65	376.6	- 86.6	
		2-25-65	436.0	- 146.0	
		3-24-65	437.3	- 147.3	
		4-21-65	433.9	- 143.9	
		5-21-65	433.9	- 143.9	
		6-23-65	432.0	- 142.0	
17S/17E-21N02 M	226.0	9-17-64	301.4	- 75.4	5000
		2-10-65	286.6	- 60.6	
18S/15E-02N01 M	429.0	7-24-64	798.9	- 369.9	5000
		8-26-64	790.8	- 361.8	
		9-23-64	734.8	- 305.8	
		10-22-64	747.3	- 318.3	
		11-19-64	744.1	- 315.1	
		12-23-64	705.1	- 276.1	
		1-28-65	798.3	- 369.3	
		2-25-65	798.7	- 369.7	
		3-24-65	809.0	- 380.0	
		4-21-65	761.6	- 332.6	
		5-21-65	756.2	- 327.2	
		6-23-65	751.3	- 322.3	
18S/17E-12N01 M	253.0	12-21-64	347.0	- 94.0	5050
18S/17E-29N01 M	305.0	12-18-64	473.0	- 168.0	5050
19S/17E-35N01 M	356.0	7-23-64	492.0	- 136.0	5000
		8-19-64	515.2	- 159.2	
		9-17-64	472.0	- 116.0	
		10-12-64	467.0	- 111.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA		5-22.47			
19S/17E-35N01 M CONT.	356.0	11-13-64	463.4	- 107.4	5000
		12-11-64	441.9	- 85.9	
		1-11-65	467.5	- 111.5	
		2-10-65	498.0	- 142.0	
		3-10-65	502.2	- 146.2	
		4-08-65	486.4	- 130.4	
		5-04-65	456.4	- 100.4	
		6-02-65	459.9	- 103.9	
19S/18E-15M01 M	274.0	12-17-64	□		5050
19S/18E-27M01 M	281.0	11-19-64	366.8	- 85.8	5000
		2-25-65	373.1	- 92.1	
20S/15E-32A01 M	675.0	7-23-64	222.5	452.5	5000
		8-25-64	223.4	451.6	
		9-22-64	224.2	450.8	
		10-21-64	225.2	449.8	
		11-19-64	225.9	449.1	
		12-22-64	226.5	448.5	
		1-28-65	226.8	448.2	
		2-25-65	231.5	443.5	
		3-24-65	227.9	447.1	
		4-20-65	228.1	446.9	
		5-20-65	228.4	446.6	
		6-22-65	229.2	445.8	
20S/18E-11N01 M	277.0	12-16-64	437.0	- 160.0	5050
20S/18E-11Q01 M	270.0	7-22-64	452.6	- 182.6	5000
		8-19-64	□		
		9-16-64	451.2	- 181.2	
		10-12-64	453.1	- 183.1	
		11-13-64	447.3	- 177.3	
		12-11-64	437.7	- 167.7	
		1-11-65	455.0	- 185.0	
		2-11-65	468.4	- 198.4	
		3-10-65	475.8	- 205.8	
		4-07-65	464.5	- 194.5	
		5-04-65	447.3	- 177.3	
		6-02-65	422.1	- 152.1	
20S/18E-36D01 M	260.0	10-22-64	295.1	- 35.1	5000
		2-25-65	297.0	- 37.0	
21S/15E-01E01 M	623.0	12-18-64	□		5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA		5-22.47			
21S/16E-02N01 M	570.0	12-17-64	□		5050
21S/16E-07N01 M	634.0	12-18-64	□		5050
21S/16E-35D01 M	682.0	12-17-64	□		5050
21S/17E-06N01 M	526.0	12-17-64	□		5050
21S/17E-11E01 M	413.0	12-14-64	399.0	14.0	5050
21S/17E-24G01 M	425.0	12-15-64	□		5050
21S/18E-02M01 M	278.0	12-14-64	□		5050
21S/18E-28M02 M	363.0	9-23-64	339.0	24.0	5000
		2-25-65	337.6	25.4	
22S/16E-12F01 M	787.0	12-17-64	298.0	489.0	5050
POSO SOIL CONSERVATION DISTRICT		5-22.48			
10S/13E-06R01 M	110.0	7-03-64	5.5	104.5	5529
		8-03-64	5.8	104.2	
		9-03-64	7.2	102.8	
		10-05-64	7.0	103.0	
		11-03-64	10.3	99.7	
		12-07-64	8.1	101.9	
		1-05-65	8.0	102.0	
		2-08-65	8.0	102.0	
		3-04-65	9.6	100.4	
		4-05-65	9.6	100.4	
		5-05-65	6.2	103.8	
		6-07-65	7.4	102.6	
11S/13E-05Q01 M	117.0	7-03-64	9.8	107.2	5529
		8-03-64	10.0	107.0	
		9-03-64	11.7	105.3	
		10-05-64	13.7	103.3	
		11-03-64	12.7	104.3	
		12-07-64	12.0	105.0	
		1-05-65	8.5	108.5	
		2-08-65	10.4	106.6	
		3-04-65	12.8	104.2	
		4-05-65	12.2	104.8	
		5-05-65	13.0	104.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
POSO SOIL CONSERVATION DISTRICT			5-22.48		
11S/13E-05Q01 M CONT.	117.0	6-07-65	13.7	103.3	5529
11S/13E-26A01 M	128.0	7-03-64	7.7	120.3	5529
		8-03-64	9.7	118.3	
		9-03-64	11.6	116.4	
		10-05-64	9.9	118.1	
		11-03-64	8.0	120.0	
		12-07-64	10.4	117.6	
		1-05-65	9.7	118.3	
		2-08-65	7.4	120.6	
		3-04-65	7.1	120.9	
		4-05-65	6.7	121.3	
		5-05-65	9.3	118.7	
		6-07-65	9.6	118.4	
11S/13E-33L01 M	126.0	7-03-64	16.5	109.5	5529
		8-03-64	9.1	116.9	
		9-03-64	10.9	115.1	
		10-05-64	14.3	111.7	
		11-03-64	11.8	114.2	
		12-07-64	9.4	116.6	
		1-05-65	10.8	115.2	
		2-08-65	8.7	117.3	
		3-04-65	12.2	113.8	
		4-05-65	11.7	114.3	
		5-05-65	12.1	113.9	
		6-07-65	12.8	113.2	
12S/13E-13J01 M	140.0	7-03-64	15.7	124.3	5529
		8-03-64	18.4	121.6	
		9-03-64	13.7	126.3	
		10-05-64	10.4	129.6	
		11-03-64	10.1	129.9	
		12-07-64	9.4	130.6	
		1-05-65	10.6	129.4	
		2-08-65	9.3	130.7	
		3-04-65	11.7	128.3	
		4-05-65	12.9	127.1	
		5-05-65	9.8	130.2	
		6-07-65	10.7	129.3	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TERRA BELLA IRRIGATION DISTRICT			5-22.50		
22S/27E-25J03 M	532.0	7-27-64	135.5	396.5	6001
		8-24-64	142.3	389.7	
		9-24-64	130.5	401.5	
		10-26-64	123.0	409.0	
		11-23-64	114.7	417.3	
		12-22-64	113.4	418.6	
		2-01-65	110.0	422.0	
		2-25-65	107.2	424.8	
		3-22-65	107.9	424.1	
		4-26-65	104.4	427.6	
		5-25-65	114.0	418.0	
		6-21-65	113.4	418.6	
22S/27E-36N01 M	513.0	7-27-64	310.1	202.9	5000
		8-24-64	325.3	187.7	
		9-29-64	305.1	207.9	
		10-26-64	298.5	214.5	
		11-23-64	280.5	232.5	
		12-22-64	266.0	247.0	
		2-01-65	251.5	261.5	
		2-25-65	248.7	264.3	
		3-22-65	251.0	262.0	
		4-26-65	245.0	268.0	
		5-25-65	250.6	262.4	
		6-21-65	281.9	231.1	
23S/27E-10H01 M	518.0	9-25-64	255.4	262.6	6001
		1-29-65	229.5	288.5	
MERCED BOTTOMS			5-22.54		
7S/10E-23K01 M	80.0	7-03-64	13.1	66.9	5050
		8-04-64	17.2	62.8	
		9-04-64	18.8	61.2	
		11-05-64	19.5	60.5	
		12-03-64	15.7	64.3	
		1-12-65	10.5	69.5	
		2-01-65	8.1	71.9	
		3-04-65	6.3	73.7	
		4-07-65	5.9	74.1	
		5-06-65	5.2	74.8	
		6-04-65	6.2	73.8	
7S/10E-23K02 M	80.0	7-03-64	4.0	76.0	5050
		8-04-64	4.2	75.8	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MERCED BOTTOMS			5-22.54		
7S/10E-23K02 M CONT.	80.0	9-04-64	4.0	76.0	5050
		11-05-64	5.9	74.1	
		12-03-64	6.1	73.9	
		1-12-65	4.7	75.3	
		2-01-65	4.6	75.4	
		3-04-65	4.7	75.3	
		4-07-65	3.3	76.7	
		5-06-65	4.1	75.9	
		6-04-65	8.0	72.0	
9S/14E-01B01 M	180.0	7-03-64	81.3	98.7	5050
		8-04-64	94.8	85.2	
		9-04-64	105.7	74.3	
		11-05-64	72.7	107.3	
		12-02-64	62.0	118.0	
		1-12-65	73.2	106.8	
		2-02-65	53.8	126.2	
		3-05-65	52.2	127.8	
		4-09-65	58.4	121.6	
		5-06-65	66.0	114.0	
		6-04-65	79.2	100.8	
9S/14E-01B02 M	180.0	7-03-64	78.9	101.1	5050
		8-04-64	92.0	88.0	
		9-04-64	DRY		
		11-05-64	69.7	110.3	
		12-02-64	60.1	119.9	
		1-12-65	34.0	146.0	
		2-02-65	52.4	127.6	
		3-05-65	51.1	128.9	
		4-09-65	57.0	123.0	
		5-06-65	64.3	115.7	
		6-04-65	77.5	102.5	
9S/14E-01B03 M	180.0	7-03-64	35.1	144.9	5050
		8-04-64	35.4	144.6	
		9-04-64	37.5	142.5	
		11-05-64	36.7	143.3	
		12-02-64	36.5	143.5	
		1-12-65	35.2	144.8	
		2-02-65	36.0	144.0	
		3-05-65	35.8	144.2	
		4-09-65	36.3	143.7	
		5-06-65	36.7	143.3	
		6-04-65	36.5	143.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
GARFIELD WATER DISTRICT			5-22.65		
12S/20E-13A01 M	388.0	7-01-64	117.4	270.6	6001
		8-01-64	119.2	268.8	
		9-01-64	115.7	272.3	
		10-09-64	▫		
		11-01-64	118.0	270.0	
		12-01-64	116.8	271.2	
		1-02-65	115.5	272.5	
		2-01-65	114.9	273.1	
		3-01-65	115.5	272.5	
		4-01-65	115.2	272.8	
		5-01-65	116.3	271.7	
		6-01-65	116.3	271.7	
12S/21E-07A02 M	405.5	7-01-64	183.5	222.0	6001
		8-01-64	▫		
		9-01-64	181.3	224.2	
		10-09-64	182.6	222.9	
		11-01-64	179.4	226.1	
		12-01-64	178.8	226.7	
		1-02-65	179.9	225.6	
		2-01-65	174.2	231.3	
		3-01-65	171.6	233.9	
		4-01-65	171.0	234.5	
		5-01-65	170.1	235.4	
		6-01-65	171.0	234.5	
12S/21E-18A03 M	390.5	7-01-64	114.6	275.9	6001
		8-01-64	112.1	278.4	
		9-01-64	114.8	275.7	
		10-09-64	114.9	275.6	
		11-01-64	114.7	275.8	
		12-01-64	113.0	277.5	
		1-02-65	111.5	279.0	
		2-01-65	110.9	279.6	
		3-01-65	111.0	279.5	
		4-01-65	110.1	280.4	
		5-01-65	111.1	279.4	
		6-01-65	111.3	279.2	
KINGS COUNTY WATER DISTRICT			5-22.66		
20S/21E-03A01 M	222.0	9-27-64	20.9	201.1	5129
		2-09-65	20.9	201.1	
PLEASANT VALLEY AREA			5-22.69		
20S/15E-25D01 M	619.0	12-15-64	▫		5050

APPENDIX D

SURFACE WATER QUALITY

APPENDIX D. SURFACE WATER QUALITY

Introduction

This appendix presents surface water quality data obtained during the 1965 water year. The data are presented as tables and graphs representing the chemical, bacteriological, and observed physical characteristics of the water at the sampling stations. These characteristics are determined in accordance with instructions contained in the latest edition of "Standard Methods for the Examination of Water and Wastewater".

Measurement Techniques

Definitions

Cubic foot per second (cfs) is a unit expressing rates of discharge. One cubic foot per second is equal to the discharge of a stream of rectangular cross section one foot wide and one foot deep at a flow with an average velocity of one foot per second.

Dissolved oxygen (DO) is the amount of free oxygen contained in water. It is an important requirement for the maintenance of fish and other aquatic life and is also a reliable indicator of organic pollution.

pH is a value that represents the logarithm of the reciprocal of the hydrogen ion concentration.

Total dissolved solids (TDS) represents the quantity of dissolved mineral constituents in water.

Specific conductance or electrical conductance (EC) is a measure of the capacity of water to conduct an electrical current. It is closely related to the quantity of dissolved minerals (TDS) in the water.

Coliform is a group of organisms whose presence in water is an indicator of bacteriological contamination or pollution.

Most probable number (MPN) is an index of the number of coliform bacteria which, more probably than any other number, would give the results shown by laboratory tests.

Hardness is a characteristic of water that is mainly caused by compounds of magnesium and calcium. Its presence is usually recognized by the increased quantity of soap required to produce lather and by the formation of a curd of scum on the water.

Parts per million (ppm) is a weight-to-weight ratio of a constituent relative to water.

Grams per liter is a weight-to-volume ratio (pounds to gallons) used to express the quantity of a constituent contained in a quantity of water. In fresh water, one part per million is equal to one milligram per liter.

1 milligram per liter (mg/l) = 1 part per million (ppm)

1 microgram per liter (ug/l) = 1 part per billion (ppb)

1 nanogram per liter (ng/l) = 1 part per trillion (ppt)

Equivalents per liter (e/l) is a unit chemical equivalent weight of the constituent per liter of water.

1 milliequivalent per liter (me/l) = 1 equivalent per million (epm)

Methods and Procedures

Field activities include the collection of samples from 31 stream sampling stations in the San Joaquin Valley as listed on Table D-1. The stations are sampled periodically (monthly, quarterly, or semiannually), depending on past record and need for data. The following field data are also obtained at the time the sample is collected: (1) dissolved oxygen, (2) pH, (3) temperature, (4) gage height, (5) time, and (6) visual observation of water conditions and of unusual stream channel conditions. Samples of water are submitted to the laboratory for mineral and bacteriological analyses, and samples collected during May and September at ten selected stations are also submitted for spectrographic determination of trace elements.

A procedure for servicing stations where continuous electrical conductivity recorders are installed has been developed to obtain a reliable record. This procedure consists of determining the EC at the time of sample collection to check the accuracy of the recorder. Based on the EC comparison, detected errors resulting from dirty measuring probes or other uncontrollable factors which tend to affect the accuracy of the instruments can be corrected.

Accuracy

The accuracy of laboratory and field determinations reported in this appendix meets the standards specified in the latest edition of "Standard Methods for the Examination of Water and Wastewater".

Coding

To facilitate machine processing of surface water quality data and to assure compatibility of quality and quantity data, each station has been assigned an index number in accordance with the description indicated on page of Appendix B. The locations of the sampling stations are shown on Plate 4, by station identification number as given in column 2 of Table D-1.

Data

Mineral and sanitary analyses of samples collected by this program are reported in Table D-2, and spectrographic analyses for trace elements are reported in Table D-3. Data obtained by continuous conductivity recorders are reported as graphs of the weekly mean specific conductance and are shown in Figure D-1. Records of temperature were also recorded at some of these stations and are shown in Figure D-2.

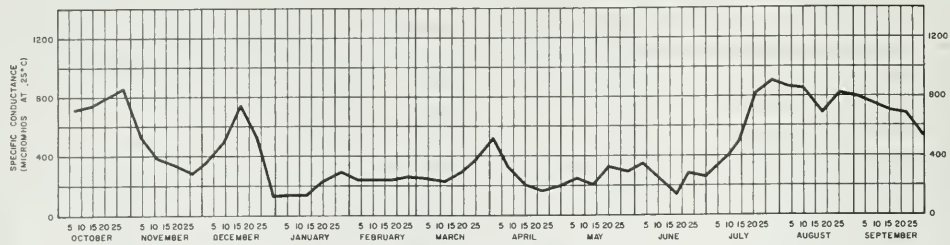
The collection of samples for radiological analysis was discontinued in 1964.

TABLE D-1

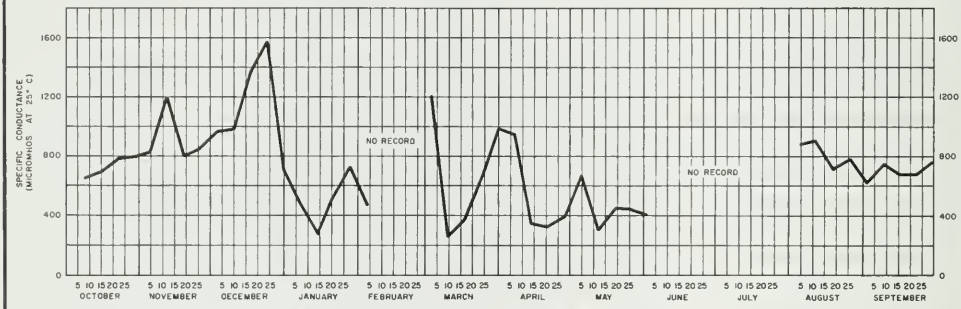
INDEX TO QUALITY SAMPLING STATIONS

Station	Station Identification Number	Station Number	Location[a]	Period[b] of Record	Frequency[c] of Sampling	Sampled[d] By	Analysis[e] on Page
Big Creek above Pine Flat Dam	C11320.00	33d	12S/25E- 4	July 1960	M	USACE	244
Chowchilla River near Raymond	B64200.00	114	8S/18E- 1	January 1962	S	DWR	245
Delta-Mendota Canal near Mendota	B00770.00	92	13S/15E-19	July 1952	M	DWR	246, 275
Delta-Mendota Canal near Tracy	B95925.00	93	1S/ 4E-30	July 1952	M	DWR	(R,T) 247, 275
Fresno River near Daulton	B67150.00	113	9S/19E-34	January 1958	S	DWR	248
Kaweah River below Terminus Dam	C02185.00	35	17S/27E-25	September 1962	M	USACE	249
Kaweah River at Three Rivers	C21250.00	35b	17S/28E-27	April 1951	M	USACE	250
Kern River near Bakersfield	C05150.00	36	29S/28E- 9	April 1951	M	KCPR	251, 275
Kern River below Isabella Dam	C51350.00	36a	26S/33E-30	September 1955	Q	USACE	252
Kern River near Kernville	C51500.00	36b	25S/33E-15	September 1955	Q	USACE	253
Kings River below North Fork	C11460.00	33c	12S/26E-21	September 1955	Q	USACE	254
Kings River below Peoples Weir	C01140.00	34	17S/22E- 1	April 1951	M	DWR	255, 275
Kings River below Pine Flat Dam	C11140.00	33b	13S/24E- 2	September 1955	Q	USACE	256
Merced River below Exchequer Dam	B51200.00	32a	4S/15E-13	April 1959	Q	DWR	257
Merced River near Stevinson	B05125.00	32	6S/ 9E-36	April 1951	M	DWR	(R) 258, 275
Salt Slough at San Luis Ranch	B00475.00	24c	9S/11E- 7	November 1958	M	DWR	259
San Joaquin River at Crows Landing Bridge	B07250.00	26b	6S/ 9E- 7	January 1962	M	DWR	260
San Joaquin River at Fremont Ford Bridge	B07375.00	25c	7S/ 9E-24	July 1955	M	DWR	(R) 261, 275
San Joaquin River at Friant Dam	B07885.00	24	11S/21E- 7	April 1951	Q	DWR	262
San Joaquin River near Grayson	B07080.00	26	4S/ 7E-24	April 1959	M	SF	263
San Joaquin River at Maze Road Bridge	B07040.00	26a	3S/ 7E-33	April 1951	M	SF	(R) 264
San Joaquin River near Mendota	B07710.00	25	13S/15E- 7	April 1951	M	DWR	265
San Joaquin River at Patterson Bridge	B07200.00	27a	5S/ 8E-15	January 1962	M	DWR	(R) 266
San Joaquin River near Vernalis	B07020.00	27	3S/ 6E-13	April 1951	M	DWR	(R,T) 267, 275
Stanislaus River at Koetitz	B03115.00	29	3S/ 7E- 2	April 1951	M	DWR	(R) 268, 275
Stanislaus River below Tulloch Dam	B32150.00	29a	1S/12E- 1	July 1956	Q	DWR	269
Tule River near Springville	C31150.00	91b	21S/29E-15	November 1963	M	USACE	270
Tule River below Success Dam	C03195.00	91	21S/28E-35	July 1952	M	USACE	271, 275
Tuolumne River below Don Pedro Dam	B41100.00	31a	3S/14E-20	April 1951	Q	SF	272
Tuolumne River at Hickman Bridge	B04150.00	30	3S/11E-34	April 1951	M	SF	(R) 273
Tuolumne River at Tuolumne City	B04105.00	31	4S/ 8E-12	April 1951	M	SF	(R) 274, 275

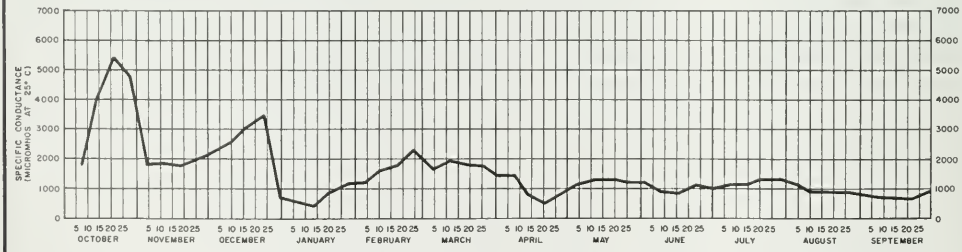
a. Locations are in reference to Mt. Diablo Base and Meridian
b. Beginning of record
c. M - Monthly, B - Bimonthly, Q - Quarterly, S - Semiannually
d. DWR - Department of Water Resources, USACE - United States Army Corps of Engineers
SF - City and County of San Francisco, KCPR - Kern County Parks and Recreation
e. Recorder stations are indicated with (R) or (R,T): (R) indicates conductivity recorder, (R,T) indicates conductivity and temperature: Weekly mean values are shown on Figures D-1 and D-2, pages 240 through 243.



SAN JOAQUIN RIVER NEAR VERNALIS
STA. No. 7020 RIVER MILE 76.6



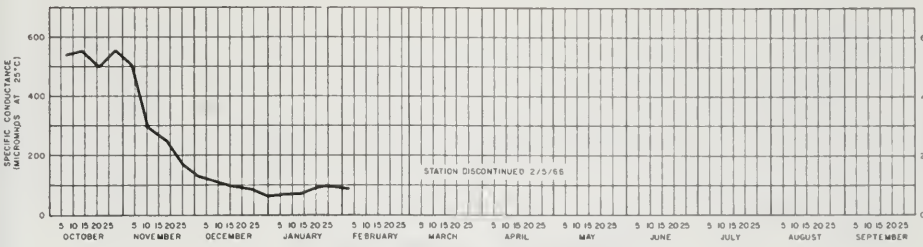
SAN JOAQUIN RIVER AT PATTERSON BRIDGE
STA. No. 7200 RIVER MILE 104.5



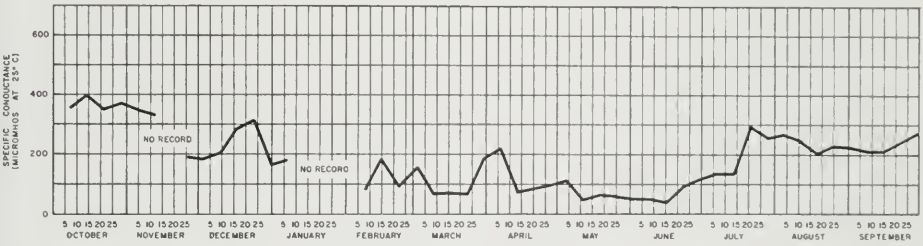
SAN JOAQUIN RIVER AT FREMONT FORD
STA. No. 7375 RIVER MILE 129.5

WEEKLY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1965

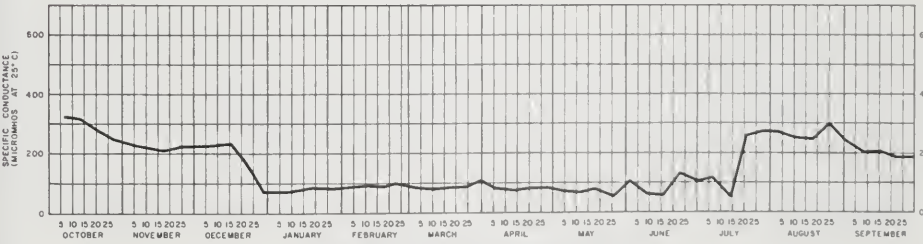
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966



TUOLUMNE RIVER NEAR HICKMAN BRIDGE
STA. No. 4150 RIVER MILE 29.3



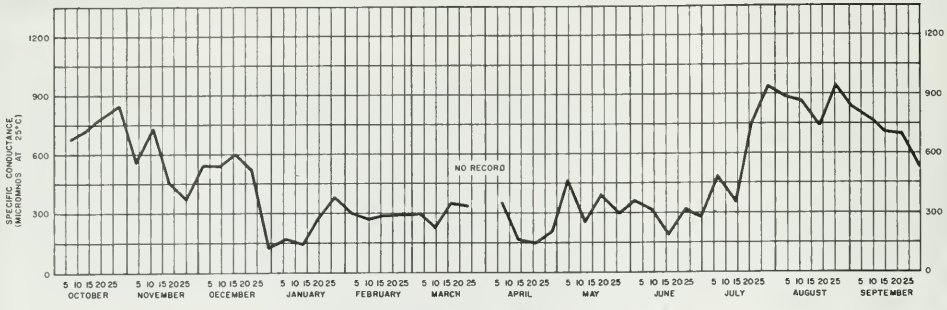
MERCED RIVER NEAR STEVINSON
STA. No. 5125 RIVER MILE 1.8



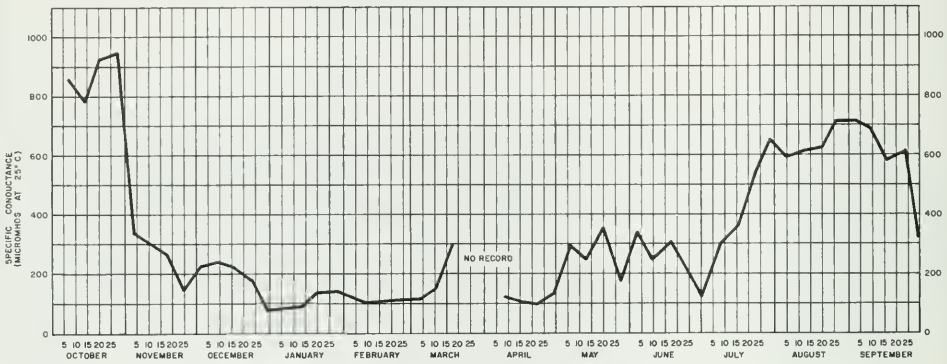
STANISLAUS RIVER AT KOETITZ RANCH
STA. No. 3115 RIVER MILE 9.5

WEEKLY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1965

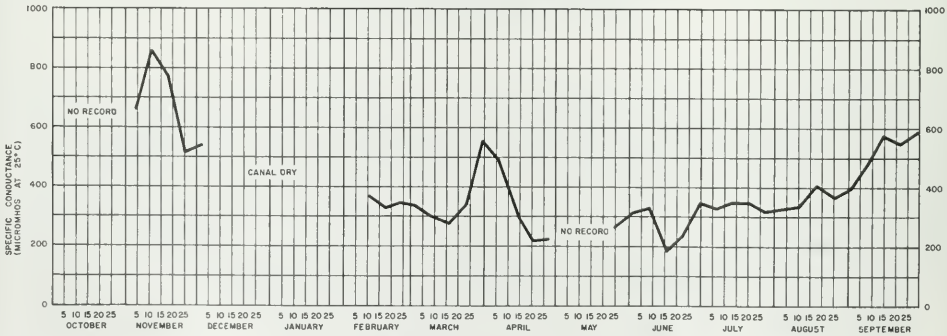
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966



SAN JOAQUIN RIVER AT MAZE RD. BRIDGE
STA. No. 7040 RIVER MILE 82.9



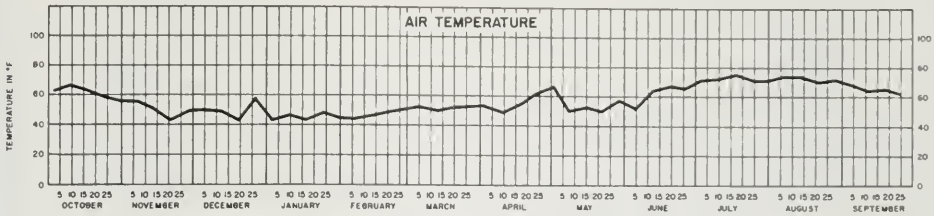
TUOLUMNE RIVER NEAR TUOLUMNE CITY
STA. No. 4105 RIVER MILE 2.9



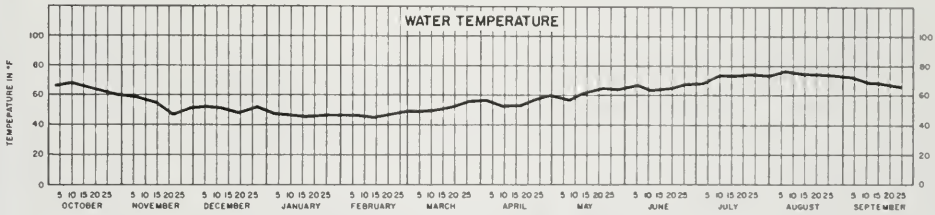
DELTA MENDOTA CANAL NEAR TRACY
STA. No. 5925 CANAL MILE 3.5

WEEKLY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1965

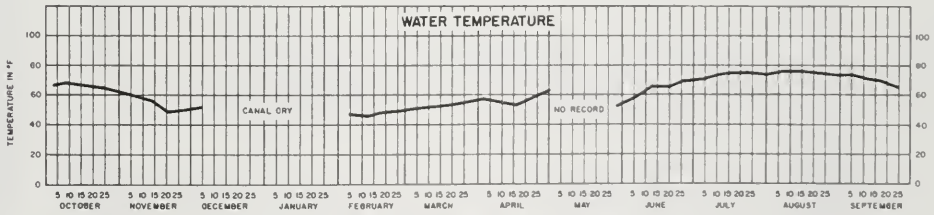
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966



SAN JOAQUIN RIVER NEAR VERNALIS
STA. No. 7020 RIVER MILE 76.6



SAN JOAQUIN RIVER NEAR VERNALIS
STA. No. 7020 RIVER MILE 76.6



DELTA MENDOTA CANAL NEAR TRACY
STA. No. 5925 RIVER MILE 3.5

WEEKLY MEAN TEMPERATURE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1965

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1966

TABLE D-2

ANALYSES OF SURFACE WATER

BIG CREEK ABOVE PINE FLAT DAM (STA. NO. 33d)

(C11320.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by i
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median 2.3 Maximum 23. Minimum .62	USGS
10/19 1125	1	66	10.1	109	178	8.1 / 8.0	c / 1.00		14 / 0.61		0.0 / 0.00	58 / 0.95		21 / 0.59			0.0			153[e]	38	50	2	1		
11/9 1210	7.8	55	11.7	110	130	/ 7.4	c / 0.72		11 / 0.48		0.0 / 0.00	45 / 0.74		11 / 0.31			0.0			111[e]	40	36	0	10		
12/14 1020	12.7	42	11.6	99	91	/ 7.1	c / 0.51		7.5 / 0.33		0.0 / 0.00	36 / 0.59		5.6 / 0.16			0.1			78[e]	39	26	0	1		
1965																										
1/11 1055	120	42	10.6	84	74	/ 6.9	c / 0.47		5.2 / 0.23		0.0 / 0.00	34 / 0.56		2 / 0.06			0.0			63[e]	33	24	0	8		
2/8 1110	73	42	10.7	85	73	/ 7.4	c / 0.45		5.7 / 0.25		0.0 / 0.00	35 / 0.57		1.9 / 0.05			0.0			63[e]	36	22	0	2		
3/8 1100	44	46	11.4	96	78	/ 7.6	c / 0.52		5.6 / 0.24		0.0 / 0.00	38 / 0.62		2.1 / 0.06			0.0			67[e]	32	26	0	10		
4/13 1100	250	48	10.5	91	81	/ 7.2	c / 0.58		5.3 / 0.23		0.0 / 0.00	40 / 0.66		1.6 / 0.05			0.0			69[e]	28	29	0	25		
5/10 1100	45	56	10.2	99	72	/ 7.3	6.2 / 0.31	1.7 / 0.14	5.9 / 0.26	0.9 / 0.02	0.0 / 0.00	36 / 0.59	1 / 0.02	1.6 / 0.05	2.3 / 0.04		0.2	25	ABS 0.0 PO_4 0.05 As 0.0	67[g]	36	22	0	3		
6/14 1000	29	62	10.7	110	83	/ 8.2	c / 0.51		6.9 / 0.30		0.0 / 0.00	42 / 0.69		2.9 / 0.08			0.0			71[e]	37	26	0	1		
7/16 0930	12	73	8.6	98	93	7.2 / 8.0	c / 0.54		8.2 / 0.36		0.0 / 0.00	44 / 0.72		4.3 / 0.12			0.0			80[e]	40	27	0	1		
8/9 1045	2.8	73			109	/ 8.0	c / 0.62		9.1 / 0.40		0.0 / 0.00	52 / 0.85		6.3 / 0.18			0.0			93[e]	39	31	0	1		
9/13 1035	0.5	67	10.7	115	122	/ 7.8	14 / 0.70	0.2 / 0.02	9.4 / 0.41	2.2 / 0.06	0.0 / 0.00	54 / 0.89	3 / 0.06	8.3 / 0.23	1 / 0.02		0.0	29	ABS 0.0 PO_4 0.02 As 0.0	94[g]	34	36	0	1		

a Field pH.

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated.

32505-D-H 6-61 200 GPO

TABLE D-2

ANALYSES OF SURFACE WATER

CHOWCHILLA RIVER NEAR RAYMOND (STA. NO. 114)

(B64200.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N C mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median .23	USGS
12/28 1425		50	11.7	104	94	7.1 / 7.6	10 / 0.50	1.5 / 0.12	5.7 / 0.25	2.3 / 0.06	0.0 / 0.00	39 / 0.64	1 / 0.02	4.2 / 0.12	2.1 / 0.03		0.1	20		56[g]	27	31	0	20	Maximum .23	
																									Minimum .23	
1965																										
5/10 1145	113	69	8.9	98	140	7.6 / 7.4	13 / 0.65	3 / 0.25	10 / 0.44	1.5 / 0.04	0.0 / 0.00	69 / 1.13	1 / 0.02	7.8 / 0.22	1.7 / 0.03		0.0	33	ABS 0.0 PO_4 0.05 As 0.0	98[g]	32	45	0	2		
9/2 1645	0.5	81	6.7	83	344	7.5 / 8.1	28 / 1.40	4.9 / 1.40	30 / 1.30	2.9 / 0.07	0.0 / 0.00	92 / 1.51	0.0 / 0.0	61 / 1.72	1.9 / 0.03		0.0	37	ABS 0.0 PO_4 0.12 As 0.0	232[g]	41	90	15	1		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in [illegible].

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

DELTA-MENDOTA CANAL NEAR MENDOTA (STA. NO. 92)

(B00770.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median 6.2 Maximum 62. Minimum 2.3	USGS
10/13 1200		70	8.0	90	501	7.3 / 8.2	[c] / 2.54		50 / 2.18		0.0 / 0.00	116 / 1.90		66 / 1.86			0.2			283[e]	46	127	32	20		
11/9 1225		62	9.4	96	559	/ 8.0	[c] / 2.64		58 / 2.52		0.0 / 0.00	118 / 1.93		74 / 2.09			0.2			315[e]	49	132	35	15		
12/14 1325		52	11.0	100	630	7.4 / 7.9	[c] / 2.72		73 / 3.18		0.0 / 0.00	102 / 1.67		81 / 2.29			0.5			355[e]	54	136	52	1		
1965																										
2/8 1200		52	10.2	93	319	7.3 / 7.7	[c] / 1.48		33 / 1.44		0.0 / 0.00	61 / 1.00		36 / 1.02			0.2			180[e]	49	74	24	15		
3/8 1345		58	10.3	101	475	7.4 / 8.1	[c] / 2.18		50 / 2.18		0.0 / 0.00	72 / 1.18		70 / 1.97			0.3			268[e]	50	109	50	30		
4/12 1425		57	14.2	137	635	8.7 / 8.1	[c] / 2.84		70 / 3.04		0.0 / 0.00	100 / 1.64		84 / 2.37			0.3			358[e]	52	142	60	20		
5/13 0705		64	9.2	97	305	8.0 / 7.6	18 / 0.90	7.3 / 0.60	29 / 1.26	1.6 / 0.04	0.0 / 0.00	63 / 1.03	33 / 0.69	41 / 1.16	2.5 / 0.04		0.2	15	ABS 0.0 PO_4 0.20 As 0.0	179[g]	45	75	23	30		
6/14 1045		69	8.3	93	220	7.4 / 8.0	[c] / 1.04		21 / 0.91		0.0 / 0.00	50 / 0.82		29 / 0.82			0.1			124[e]	47	52	11	60		
7/12 0900		74	6.4	74	452	7.4 / 8.2	[c] / 2.16		46 / 2.00		0.0 / 0.00	84 / 1.38		70 / 1.97			0.1			255[e]	48	108	39	45		
8/9 0920		78	7.4	90	274	7.4 / 8.5	[c] / 1.50		24 / 1.04		2 / 0.07	75 / 1.23		30 / 0.85			0.1			155[e]	41	75	10	50		
9/13 1240		73	7.8	92	559	7.5 / 7.6	33 / 1.65	14 / 1.15	56 / 2.44	2.7 / 0.07	0.0 / 0.00	112 / 1.84	48 / 1.00	84 / 2.37	2.8 / 0.05		0.1	18	ABS 0.0 PO_4 0.25 As 0.0	326[g]	46	140	48	25		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-DH 6-61 200 GPO

TABLE D-2

ANALYSES OF SURFACE WATER

DELTA-MENDOTA CANAL NEAR TRACY (STA. NO. 93)

(B95925.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in milligrams per liter / milliequivalents per liter: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]		Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
1964																										Median 50. Maximum 620. Minimum 6.2	USGS
10/6 1250	2502	66	7.3	78	390	7.2 / 7.9	c / 2.14		38 / 1.65		0.0 / 0.00	107 / 1.75		50 / 1.41			0.1				220[e]	44	107	19	30		
11/9 1330	855	69	7.4	81	945	7.4 / 8.1	c / 4.04		102 / 4.44		0.0 / 0.00	152 / 2.49		148 / 4.18			0.4				532[e]	52	202	77	7		
12/8 1415	0	56	3.0	29	613	6.8 / 8.3	c / 2.64		65 / 2.83		3 / 0.10	93 / 1.52		90 / 2.54			0.6				345[e]	52	132	51	9		
1965																											
3/3 1140	2510	53	10.3	95	352	7.2 / 8.0	c / 1.62		37 / 1.61		0.0 / 0.00	64 / 1.05		50 / 1.41			0.2				198[e]	50	81	29	40		
4/7 1030	870	53	10.2	94	331	/ 8.0	c / 1.52		35 / 1.52		0.0 / 0.00	67 / 1.10		44 / 1.24			0.2				186[e]	50	76	21	30		
5/5 1125	2546	59	10.0	99	290	7.5 / 8.4	17 / 0.85	7.2 / 0.59	30 / 1.30	1.6 / 0.04	4 / 0.13	59 / 0.97	32 / 0.67	39 / 1.10	0.6 / 0.01		0.1	12	ABS 0.0; PO_4 0.15; As 0.0		168[g]	47	72	17	30		
6/15 1145	3390	66	8.9	95	168	7.3 / 8.0	c / 0.84		16 / 0.70		0.0 / 0.00	41 / 0.67		24 / 0.68			0.1				95[e]	45	42	8	50		
7/13 1220	4160	75	7.0	83	255	7.3 / 8.2	c / 1.36		25 / 1.09		0.0 / 0.00	66 / 1.08		32 / 0.90			0.1				144[e]	44	68	14	35		
8/11 1015	4185	76	6.7	79	247	7.3 / 8.3	c / 1.36		22 / 0.96		1 / 0.03	74 / 1.21		26 / 0.73			0.1				139[e]	41	68	6	35		
9/15 0940	1730	72	9.6	109	747	8.1 / 8.4	42 / 2.10	17 / 1.42	77 / 3.35	3.2 / 0.08	4 / 0.13	136 / 2.23	59 / 1.23	122 / 3.44	2.4 / 0.04		0.2	21	ABS 0.0; PO_4 0.46; As 0.0		442[g]	48	176	58	25		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 (0.00) except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

FRESNO RIVER NEAR DAULTON (STA. NO. 113)

(B67150.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25° C)	pH a/b	Mineral constituents in milligrams per liter / milliequivalents per liter: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
1964																									Median 1.3 Maximum 1.3 Minimum .62	USGS
10/30 1340	30	68	9.0	98	229	7.2 / 7.3	14 / 0.70	2.7 / 0.22	26 / 1.13	2 / 0.05	0.0 / 0.00	40 / 0.66	7 / 0.15	41 / 1.16	3.6 / 0.06	0.1 / 0.01	0.5	14		150[g]	54	46	13	80		
1965																										
5/10 1255	155	66	9.2	100	106	7.2 / 7.3	10 / 0.50	1.7 / 0.14	8.4 / 0.37	1 / 0.03	0.0 / 0.00	51 / 0.84	3 / 0.06	5.8 / 0.16	1.5 / 0.02		0.0	27	ABS 0.0; PO_4 0.0; As 0.0	77[g]	36	32	0	11		
9/2 1710	8.2	81	7.7	96	206	7.6 / 8.0	14 / 0.70	2.4 / 0.20	21 / 0.91	1.9 / 0.05	0.0 / 0.00	54 / 0.89	4 / 0.08	33 / 0.93	0.6 / 0.01		0.0	22	ABS 0.0; PO_4 0.06; As 0.0	95[g]	49	45	1	1		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0/0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 LPO

TABLE D-2

ANALYSES OF SURFACE WATER

KAWEAH RIVER BELOW TERMINOUS DAM (STA. NO. 35)

(C02185.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Jackson Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median .16+ Maximum .16+ Minimum .16+	USGS
10/5 0830	30	76	12.3	145	112	7.2	c 0.96		6.7 / 0.29		0.0 / 0.00	61 / 1.00		4.0 / 0.11			0.0			70[g]	23	48	0	1		
11/12 0950	400	61	14.0	142	133	7.4	c 0.98		7 / 0.30		0.0 / 0.00	63 / 1.03		5.3 / 0.15			0.2			79[g]	23	49	0	2		
12/7 1005	120	50	11.1	98	116	7.1	c 0.84		6.4 / 0.28		0.0 / 0.00	55 / 0.90		4.1 / 0.12			0.1			75[g]	25	42	0	3		
1965																										
1/5 1350	1850	45	11.3	94	83	7.9	c 0.63		5.1 / 0.22		0.0 / 0.00	39 / 0.64		2.2 / 0.06			0.0			70[g]	26	32	0	15		
2/8 0930	4.6	44	12.8	10.4	82	7.0	c 0.62		4.6 / 0.20		0.0 / 0.00	40 / 0.66		1.7 / 0.05			0.0			64[g]	24	31	0	3		
3/1 0940	478	44	11.5	94	68	7.4	c 0.50		4.1 / 0.18		0.0 / 0.00	34 / 0.56		1.4 / 0.04			0.0			54[g]	26	25	0	1		
4/6 0940	248	58	9.7	98	74	7.0	c 0.55		4 / 0.17		0.0 / 0.00	36 / 0.59		1.3 / 0.04			0.1			55[g]	24	28	0	12		
5/4 0730	1010	52	10.3	95	62	7.9	8 / 0.40	0.9 / 0.07	3.7 / 0.16	0.9 / 0.02	0.0 / 0.00	32 / 0.52	2 / 0.04	1 / 0.03	0.6 / 0.01		0.0	15	ABS 0.0; PO_4 0.0; As 0.0	46[g]	25	24	0	10		
6/2 0920	1801	54	10.5	98	46	7.6	c 0.33		2.6 / 0.11		0.0 / 0.00	22 / 0.36		0.9 / 0.03			0.0			38[g]	25	16	0	3		
7/8 0830	2007	62	14.8	151	39	7.3	c 0.28		1.9 / 0.08		0.0 / 0.00	18 / 0.30		0.8 / 0.02			0.3			32[g]	22	14	0	1		
8/9 0845	906	67	8.0	87	55	7.5	c 0.43		2.5 / 0.11		0.0 / 0.00	27 / 0.44		1.1 / 0.03			0.0			44[g]	20	22	0	2		
9/8 0830	195	74	8.1	95	70	7.4	8.8 / 0.44	1 / 0.08	2.9 / 0.13	1.3 / 0.03	0.0 / 0.00	32 / 0.52	3 / 0.06	3.1 / 0.09	0.5 / 0.01		0.0	9.2	ABS 0.0; PO_4 0.0; As 0.0	50[g]	19	26	0	1		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

KAWEAH RIVER AT THREE RIVERS (STA. NO. 35b)

(C21250.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in milligrams per liter / milliequivalents per liter: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
1964																									Median .16	USGS
10/5 0910	30	65	13.4	142	155	7.2	c 1.10		9 / 0.39		0.0 / 0.00	71 / 1.16		8.7 / 0.25			0.0			23[e]	26	55	0	1	Maximum 11.6+	
11/12 0930	34	54	15.5	142	114	7.2	c 0.82		7 / 0.30		0.0 / 0.00	54 / 0.89		4.4 / 0.12			0.0			26[e]	27	41	0	10	Minimum .16	
12/7 0910	144	44	11.8	96	99	7.9	c 0.72		5.6 / 0.24		0.0 / 0.00	47 / 0.77		3.2 / 0.09			0.0			68[g]	25	36	0	4		
1965																										
1/5 1315	1850	45	10.7	89	72	7.7	c 0.53		4 / 0.17		0.0 / 0.00	33 / 0.54		1.4 / 0.04			0.0			41[e]	24	26	0	25		
2/8 1000	4.63	42	12.0	95	79	7.1	c 0.60		4.5 / 0.20		0.0 / 0.00	38 / 0.62		1.6 / 0.05			0.0			45[e]	25	30	0	3		
3/2 0900	478	50	11.3	100	76	7.8	c 0.58		5.3 / 0.23		0.0 / 0.00	38 / 0.62		1.4 / 0.04			0.0			44[e]	28	29	0	4		
4/6 1020	501	52	11.2	102	76	7.2	c 0.56		4.1 / 0.18		0.0 / 0.00	38 / 0.62		1.4 / 0.04			0.1			44[e]	24	28	0	2		
5/4 0830	1260	43	11.6	93	47	7.6	6.2 / 0.31	0.5 / 0.04	2.6 / 0.11	0.8 / 0.02	0.0 / 0.00	23 / 0.38	2 / 0.04	0.7 / 0.02	0.6 / 0.01		0.1	11	ABS 0.0; PO_4 0.0; As 0.0	37[g]	23	18	0	3		
6/2 1010	2008	52	11.0	100	27	7.3	c 0.19		1.5 / 0.07		0.0 / 0.00	12 / 0.20		0.4 / 0.01			0.0			21[e]	27	10	0	4		
7/8 0900	2007	64	9.0	95	32	7.4	c 0.24		2 / 0.09		0.0 / 0.00	16 / 0.26		0.6 / 0.02			0.1			25[e]	27	12	0	1		
8/9 0915	906	68	8.2	90	71	7.4	c 0.52		3.7 / 0.16		0.0 / 0.00	35 / 0.57		2 / 0.06			0.0			41[e]	24	26	0	1		
9/8 0920	106	63	9.0	93	91	8.0	12 / 0.60	0.7 / 0.06	4.7 / 0.20	1.3 / 0.03	0.0 / 0.00	44 / 0.72	3 / 0.06	3.1 / 0.09	0.3 / 0.00		0.0	12	ABS 0.0; PO_4 0.0; As 0.0	53[g]	22	33	0	1		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 GPO

TABLE D-2

ANALYSES OF SURFACE WATER

KERN RIVER NEAR BAKERSFIELD (STA. NO. 36)

(C05150.00)

Date and time sampled PST	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median 2.4 Maximum 24. Minimum .06	USGS
10/27 1000	129	58			183	7.9	c 1.08		16 / 0.70		0.0 / 0.00	82 / 1.34		6.2 / 0.17			0.2			118[e]	39	54	0	2		
11/2 0930	191	58			177	7.3	c 1.00		17 / 0.74		0.0 / 0.00	82 / 1.34		6.4 / 0.18			0.3			114[e]	43	50	0	1		
12/1 0900	97	44			229	7.5	c 1.30		21 / 0.91		0.0 / 0.00	86 / 1.41		8.8 / 0.25			0.2			147[e]	41	65	0	1		
1965																										
1/4 0930	597	45			170	8.1	c 1.00		14 / 0.61		0.0 / 0.00	76 / 1.25		5.7 / 0.16			0.1			109[e]	38	50	0	10		
2/1 1215	562	46			161	7.3	c 0.96		14 / 0.61		0.0 / 0.00	73 / 1.20		5.1 / 0.14			0.1			104[e]	39	48	0	2		
3/2 1130	768	50			154	8.0	e 0.92		14 / 0.61		0.0 / 0.00	68 / 1.11		4.9 / 0.14			0.1			99[e]	40	46	0	7		
4/6 1100	622	47			160	8.0	e 0.96		14 / 0.61		0.0 / 0.00	74 / 1.21		4.4 / 0.12			0.2			103[e]	39	48	0	2		
5/4 0850	1084	54			146	8.3	14 / 0.70	1.9 / 0.16	13 / 0.57	1.7 / 0.04	1 / 0.03	65 / 1.07	10 / 0.21	4.2 / 0.12	1.2 / 0.02		0.1	14	ABS 0.0 PO_4 0.0 As 0.0	95[g]	39	43	0	10		
6/1 0900	1080	58			103	8.0	e 0.62		9.1 / 0.40		0.0 / 0.00	46 / 0.75		3.3 / 0.09			0.1			66[e]	39	31	0	10		
7/6 0900	1616	64			91	7.7	e 0.54		7.5 / 0.33		0.0 / 0.00	38 / 0.62		2.8 / 0.08			0.0			59[e]	38	27	0	1		
8/3 1030	1355	70			86	7.9	e 0.50		7 / 0.30		0.0 / 0.00	38 / 0.62		2.6 / 0.07			0.0			55[e]	38	25	0	3		
9/1 0845	1034	70			91	7.7	10 / 0.50	0.7 / 0.06	7.2 / 0.31	1.6 / 0.04	0.0 / 0.00	41 / 0.67	6 / 0.12	2.6 / 0.07	2 / 0.03		0.0	12	ABS 0.0 PO_4 0.11 As 0.01	64[g]	34	28	0	1		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in mg/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc (TTL), or California Department of Water Resources (DWR), as indicated

TABLE D-2

ANALYSES OF SURFACE WATER

KERN RIVER BELOW ISABELLA DAM (STA. NO. 36a)

(C51350.00)

Date and time sampled PST	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1965																									Median .06 Maximum .62 Minimum 00	USGS
1/11 1200	3	46	10.6	8.9	150	7.6	c 0.88		13 / 0.57		0.0 / 0.00	69 / 1.13		5.1 / 0.14			0.1			95[e]	39	44	0	7		
5/7 1040	347	54	9.9	92	127	8.1	12 / 0.60	1.9 / 0.16	11 / 0.48	1.4 / 0.04	0.0 / 0.00	58 / 0.95	10 / 0.21	3.9 / 0.11	1.6 / 0.03		0.1	14	ABS 0.0; PO_4 0.0; As 0.0	86[g]	38	38	0	10		
7/12 0930	1082	64	8.6	90	80	7.5	c 0.47		6.8 / 0.30		0.0 / 0.00	34 / 0.56		2.2 / 0.06			0.0			51[e]	39	24	0	1		
9/7 1045	340	68	8.3	91	87	8.0	9 / 0.45	0.9 / 0.07	7.1 / 0.31	1.4 / 0.04	0.0 / 0.00	39 / 0.64	5 / 0.10	2.2 / 0.06	2.4 / 0.04		0.1	12	ABS 0.0; PO_4 0.18; As 0.0	64[g]	36	26	0	2		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 LPO

TABLE D-2

ANALYSES OF SURFACE WATER

KERN RIVER NEAR KERNVILLE (STA. NO. 36b)

(C51500.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25° C)	pH a/b	Calcium (Ca) mg/l / me/l	Magnesium (Mg) mg/l / me/l	Sodium (Na) mg/l / me/l	Potassium (K) mg/l / me/l	Carbonate (CO_3) mg/l / me/l	Bicarbonate (HCO_3) mg/l / me/l	Sulfate (SO_4) mg/l / me/l	Chloride (Cl) mg/l / me/l	Nitrate (NO_3) mg/l / me/l	Fluoride (F) mg/l / me/l	Boron (B) mg/l / me/l	Silica (SiO_2) mg/l / me/l	Other constituents[d] mg/l / me/l	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
1965																									Median .23	USGS
1/11 1230	610	38	12.0	89	119	7.8	c 0.69		11 0.48		0.0 0.00	56 0.92		3.8 0.11			0.0			83[e]	41	34	0	4	Maximum 70. Minimum 00	
5/7 0930	1422	45	11.0	91	66	7.1	7.6 0.38	0.4 0.03	5.6 0.24	0.8 0.02	0.0 0.00	31 0.51	5 0.10	1.6 0.05	0.3 0.00		0.1	16	ABS 0.0 PO4 0.0 As 0.0	54[g]	36	20	0	3		
7/12 0830	1462	57	9.2	90	49	7.6	c 0.23		3.9 0.17		0.0 0.00	18 0.30		1.1 0.03			0.0			34[e]	42	12	0	1		
9/7 1015	341	62	9.0	92	104	7.6	10 0.50	1.7 0.14	9.1 0.39	1.2 0.03	0.0 0.00	47 0.77	7 0.15	3.2 0.09	3 0.05		0.0	14	ABS 0.0 PO4 0.0 As 0.0	68[g]	37	32	0	1		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al) arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc (TTL), or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

KINGS RIVER BELOW NORTH FORK (STA. NO. 33c)

(C11460.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity mg/l	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1965																									Median 2.3	USGS
1/11 1145	1420	44	11.2	92	57	6.9	c 0.40		3.6 0.16		0.0 0.00	24 0.39		1.1 0.03			0.0			43[e]	29	20	0	1	Maximum 6.2	
5/10 1130	2664	52	10.4	104	31	7.1	3.6 0.18	0.0 0.00	2.4 0.10	0.3 0.01	0.0 0.00	14 0.23	0.0 0.00	0.4 0.01	2.6 0.04		0.0	11	ABS 0.0 PO_4 0.05 As 0.0	23[g]	34	9	0	2	Minimum .23	
7/16 1300		62	9.5	97	18	7.0 7.2	c 0.12		1.3 0.06		0.0 0.00	8 0.13		0.4 0.01			0.0			14[e]	33	6	0	1		
8/9	1155	63			27	7.1	c 0.17		1.8 0.08		0.0 0.00	11 0.18		0.7 0.02			0.0			21[e]	32	8	0	1		
9/13 1145	420	64	10.7	112	43	7.5	5.2 0.26	0.2 0.02	2.8 0.12	0.7 0.02	0.0 0.00	19 0.31	3 0.06	1 0.03	0.0 0.00		0.0	11	ABS 0.0 PO_4 0.01 As 0.0	32[g]	29	14	0	1		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 LPO

TABLE D-2

ANALYSES OF SURFACE WATER

KINGS RIVER BELOW PEOPLES WEIR (STA. NO. 34)

(C01140.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in milligrams per liter / milliequivalents per liter: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
1964																									Median 6.2 Maximum 620. Minimum 2.3	USGS
10/13 1000	121	67	8.5	93	98	7.2 / 7.4	c / 0.71		7 / 0.30		0.0 / 0.00	46 / 0.75		1.9 / 0.05			0.0			67[e]	30	36	0	1		
11/9 0910	77	63	8.1	84	166	7.6 / 7.7	c / 1.12		11 / 0.48		0.0 / 0.00	81 / 1.33		4.9 / 0.14			0.2			114[e]	30	56	0	1		
12/14 1200	55	56	6.1	58	156	7.0 / 8.0	c / 1.12		9.3 / 0.40		0.0 / 0.00	75 / 1.23		4.2 / 0.12			0.0			107[e]	26	56	0	3		
1965																										
1/11 1000	117	48	10.9	94	182	7.1 / 8.4	c / 1.38		9.9 / 0.43		1 / 0.03	83 / 1.36		5.7 / 0.16			0.1			125[e]	24	69	0	10		
2/8 1400	603	50	11.2	100	59	7.0 / 7.7	c / 0.38		4.5 / 0.20		0.0 / 0.00	24 / 0.39		3.1 / 0.09			0.0			39[e]	34	19	0	4		
3/8 0900	1347	50			51	/ 7.6	c / 0.35		3.2 / 0.14		0.0 / 0.00	22 / 0.36		1.2 / 0.03			0.2			35[e]	29	18	0	5		
4/16 1200	150	64	9.5	100	156	7.4 / 7.5	c / 1.20		8.3 / 0.36		0.0 / 0.00	75 / 1.23		4.6 / 0.13			0.0			107[e]	23	60	0	15		
5/10 1345	316				69	7.3 / 7.1	6.8 / 0.34	1.7 / 0.14	5.2 / 0.23	1.2 / 0.03	0.0 / 0.00	31 / 0.51	4 / 0.08	1.6 / 0.05	3.3 / 0.05		0.2	12	ABS 0.0; PO_4 0.05; As 0.0	51[g]	31	24	0	2		
6/14 1300	1865	60	10.2	103	40	7.2 / 7.7	c / 0.27		2.8 / 0.12		0.0 / 0.00	17 / 0.28		0.9 / 0.03			0.0			27[e]	31	14	0	6		
7/12 1100	1855	64	9.9	103	31	7.2 / 7.5	c / 0.21		2.5 / 0.11		0.0 / 0.00	13 / 0.21		0.8 / 0.02			0.2			21[e]	34	10	0	2		
8/9 1200	1854	66	9.2	100	29	7.0 / 7.4	c / 0.21		1.8 / 0.08		0.0 / 0.00	13 / 0.21		0.6 / 0.02			0.0			20[e]	28	10	0	2		
9/13 1425	1530	68	9.7	106	35	7.0 / 6.9	4 / 0.20	0.5 / 0.04	2.3 / 0.10	0.3 / 0.01	0.0 / 0.00	14 / 0.23	3 / 0.06	1 / 0.03	0.8 / 0.01		0.0	7.1	ABS 0.0; PO_4 0.01; As 0.0	32[g]	29	12	1	1		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc (TTL), or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

KINGS RIVER BELOW PINE FLAT DAM (STA. NO. 33b)

(C11140.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1965																									Median 2.3 Maximum 50. Minimum .23	USGS
1/11 1345	244	50	10.3	92	40	6.7	c 0.26		2.7 / 0.12		0.0 / 0.00	17 / 0.28		0.8 / 0.02			0.0			30[e]	32	13	0	2		
5/10 1325	4336	50	10.2	91	44	7.2	4.6 / 0.23	0.9 / 0.07	3.0 / 0.13	0.6 / 0.02	0.0 / 0.0	20 / 0.33	1.0 / 0.02	1.0 / 0.03	1.5 / 0.02		0.0	11	ABS 0.0; PO_4 0.0; As 0.0	36[g]	29	15	0	2		
7/16 1130		52	10.8	98	22	6.8 / 7.4	c 0.15		1.6 / 0.07		0.0 / 0.00	10 / 0.16		0.4 / 0.01			0.0			16[e]	32	8	0	1		
8/9 1215	4560	60			23	7.2	c 0.14		1.5 / 0.07		0.0 / 0.00	9 / 0.15		0.6 / 0.02			0.0			17[e]	33	7	0	1		
9/13 0920	1630	62	10.6	108	22	7.1	2.8 / 0.14	0.0 / 0.00	1.4 / 0.06	0.5 / 0.01	0.0 / 0.00	9 / 0.15	1.0 / 0.02	0.4 / 0.01	0.2 / 0.00		0.0	5.4	ABS 0.0; PO_4 0.0; As 0.0	20[g]	29	7	0	1		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0/0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR), as indicated.

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TABLE D-2

ANALYSES OF SURFACE WATER

MERCED RIVER BELOW EXCHEQUER DAM (STA. NO. 32a)

(B51200.00)

Date and time sampled PST	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents d	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform h MPN/ml	Analyzed by i
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1965																									Median 6.2	USGS
1/11 1230		51	11.6	104	52	7.0 / 7.6	c 0.41		2.4 / 0.10		0.0 / 0.00	22 / 0.36		1.1 / 0.03			0.0			34[e]	20	20	2	20	Maximum 23.	
5/10 0925	4130	55	11.3	108	35	6.8 / 7.2	4.0 / 0.20	0.7 / 0.06	2.0 / 0.09	0.3 / 0.01	0.0 / 0.00	16 / 0.26	1.0 / 0.02	0.6 / 0.02	3.0 / 0.05		0.0	9.5	ABS 0.0; PO_4 0.0; As 0.0	28[g]	25	13	0	5	Minimum .06	
7/12 1115	1960	61	10.3	105	24	6.9 / 7.4	c 0.16		1.7 / 0.07		0.0 / 0.00	10 / 0.16		0.6 / 0.02			0.0			16[e]	30	8	0	2		
9/2 1530	1480	70	9.8	109	24	6.8 / 7.1	3.4 / 0.17	0.1 / 0.01	1.4 / 0.06	0.5 / 0.01	0.0 / 0.00	11 / 0.18	1.0 / 0.02	0.4 / 0.01	0.0 / 0.00		0.0	5.8	ABS 0.0; PO_4 0.0; As 0.0	20[g]	24	9	0	1		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+}), reported here as 0.0 / 0.00 except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated

TABLE D-2

ANALYSES OF SURFACE WATER

MERCED RIVER NEAR STEVINSON (STA. NO. 32)

(B05125.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents d	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb. Units	Coliform h MPN/ml	Analyzed by i
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median 62. Maximum 620. Minimum 5.	USGS
10/6 0850	50	64	8.4	88	365	7.3/8.2	c/1.96		38/1.65		0.0/0.00	150/2.46		31/0.87			0.0			235e	46	98	0	1		
11/9 0930	131	67	8.6	94	302	7.9/7.9	c/1.78		30/1.30		0.0/0.00	140/2.29		15/0.42			0.0			194e	42	89	0	2		
12/8 0930	150	54	9.2	86	239	7.2/8.3	c/1.44		22/0.96		1/0.03	101/1.66		13/0.37			0.0			153e	40	72	0	15		
1965																										
1/5 0950	230	53	9.8	91	196	7.2/8.2	c/1.28		15/0.65		0.0/0.00	86/1.41		7.4/0.21			0.1			126e	34	64	0	3		
2/2 1115	1140	50	10.4	92	72	7.3/7.8	c/0.94		3.8/0.17		0.0/0.00	32/0.52		1.7/0.05			0.0			46e	24	27	1	40		
3/2 1015	242	53	8.9	81	275	7.2/8.2	c/1.50		28/1.22		0.0/0.00	113/1.85		19/0.54			0.0			177e	45	75	0	10		
4/6 1040	265	52	9.5	86	273	/8.2	c/1.64		26/1.13		0.0/0.00	112/1.84		16/0.45			0.1			176e	41	82	0	14		
5/4 1005	2160	57	10.2	100	68	7.2/7.6	7.6/0.38	1.9/0.16	3.1/0.13	0.5/0.01	0.0/0.00	32/0.52	5/0.10	1/0.03	0.9/0.01		0.0	12	ABS 0.0 PO_4 0.0 As 0.0	48f	19	27	1	10		
6/15 0815	2800	61	9.4	96	38	6.9/7.6	c/0.26		2.4/0.10		0.0/0.00	16/0.26		0.9/0.03			0.0			24e	28	13	0	15		
7/13 0820	250	72	7.5	85	215	7.2/8.3	c/1.18		24/1.04		2/0.07	86/1.41		16/0.45			0.0			138e	47	59	0	5		
8/13 0835	306	73	7.5	86	156	7.2/8.0	c/0.90		14/0.61		0.0/0.00	65/1.07		8.6/0.24			0.0			100e	40	45	0	11		
9/14 1005	264	70	8.2	93	204	7.3/8.2	18/0.90	3.2/0.26	18/0.78	1.8/0.05	0.0/0.00	88/1.44	8/0.17	13/0.37	5.7/0.09		0.0	23	ABS 0.0 PO_4 0.19 As 0.0	127f	39	58	0	10		

a Field pH.

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-DH 6-61 200 JRO

TABLE D-2

ANALYSES OF SURFACE WATER

SALT SLOUGH AT SAN LUIS RANCH (STA. NO. 24c)

(B00475.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median 230. Maximum 7000. Minimum 2.3	USGS
10/6 0735	72	63	5.1	53	1180	7.3 / 8.3	c / 4.92		138 / 6.00		4 / 0.13	170 / 2.79	136 / 2.83	180 / 5.08			0.5			709[e]	55	246	100	30		
11/9 0810	103	67	6.9	74	1950	7.2 / 8.3	c / 7.60		238 / 10.35		4 / 0.13	214 / 3.51	310 / 6.45	288 / 8.12			1.7			1172[e]	58	380	98	45		
12/8 0810	93	52	8.0	73	2340	7.4 / 8.5	c / 9.36		340 / 14.79		8 / 0.27	226 / 3.70	440 / 9.16	360 / 10.16			2.1			1406[e]	61	468	270	25		
1965																										
1/5 0840	157	50	9.1	80	2700	7.6 / 8.1	c / 11.44		380 / 16.53		0.0 / 0.00	248 / 4.06	616 / 12.83	418 / 11.79			2.8			1623[e]	59	572	369	15		
2/2 0830	90	49	8.2	72	3220	7.4 / 8.3	c / 13.70		440 / 19.14		6 / 0.20	256 / 4.20	675 / 14.05	524 / 14.78			4.0			1935[e]	58	685	465	20		
3/2 0830	188	50	7.1	63	1700	7.4 / 8.0	c / 7.04		226 / 9.83		0.0 / 0.00	156 / 2.56	362 / 7.54	235 / 6.63			1.9			1022[e]	58	352	224	40		
4/6 0815	130	50	6.8	60	2080	/ 7.8	c / 8.64		290 / 12.62		0.0 / 0.00	216 / 3.54	366 / 7.62	355 / 10.01			1.7			1250[e]	59	432	255	40		
5/4 0750	145	57	7.5	73	1760	7.6 / 7.5	91 / 4.54	33 / 2.70	226 / 9.83	5.2 / 0.13	0.0 / 0.00	148 / 2.43	372 / 7.75	248 / 7.00	5 / 0.08		2.1	17	ABS 0.1 PO_4 1.0 As 0.0	1150[g]	57	362	241	45		
6/15 0640	94	62	5.9	60	1040	7.2 / 8.2	c / 4.32		120 / 5.22		0.0 / 0.00	150 / 2.46	122 / 2.54	170 / 4.80			0.5			625[e]	55	216	93	50		
7/13 0705	105	72	4.7	54	1040	7.3 / 8.0	c / 4.44		123 / 5.35		0.0 / 0.00	156 / 2.56	113 / 2.35	177 / 4.99			0.6			625[e]	55	222	94	51		
8/13 0730	94	72	4.9	56	920	7.2 / 8.2	c / 4.04		112 / 4.87		0.0 / 0.0	156 / 2.56	78 / 1.62	162 / 4.57			0.4			557[e]	55	202	74	80		
9/14 0800	62	68	5.9	64	1170	7.2 / 7.9	54 / 2.69	30 / 2.47	142 / 6.18	4.8 / 0.12	0.0 / 0.00	190 / 3.11	122 / 2.54	200 / 5.64	4.4 / 0.07		0.5	27	ABS 0.0 PO_4 0.56 As 0.01	700[g]	54	258	102	35		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in mg/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated

TABLE D-2

ANALYSES OF SURFACE WATER

SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE (STA. NO. 26b)

(B07250.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in milligrams per liter / milliequivalents per liter: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb. Units	Coliform[h] MPN/ml	Analyzed by[i]
1964																									Median 62. Maximum 620. Minimum 6.2	USGS
10/6 0920		64	7.9	83	651	7.5 / 8.2	c / 2.96		70 / 3.04		0.0 / 0.00	136 / 2.23		94 / 2.65			0.2			360[g]	51	148	36	20		
11/9 1005		68	8.8	99	1180	7.2 / 8.0	c / 4.64		148 / 6.44		0.0 / 0.00	199 / 3.26		169 / 4.77			0.9			688[g]	58	232	69	15		
12/8 0950		54	9.6	90	1290	7.5 / 8.5	c / 4.88		125 / 5.44		6 / 0.20	168 / 2.75		184 / 5.19			0.8			723[g]	53	244	96	15		
1965																										
1/5 1025		50	10.1	91	613	7.4 / 8.1	c / 2.68		71 / 3.09		0.0 / 0.00	119 / 1.95		75 / 2.12			0.5			371[g]	54	134	36	40		
2/2 1145		50	10.4	92	589	7.9 / 8.1	c / 2.34		74 / 3.22		0.0 / 0.00	81 / 1.33		80 / 2.26			0.5			350[g]	58	117	51	30		
3/2 1045		56	9.5	91	1270	7.5 / 8.0	c / 5.12		163 / 7.09		0.0 / 0.00	160 / 2.62		180 / 5.08			0.8			782[g]	58	256	125	20		
4/6 1110		52	9.6	87	1070	/ 7.6	c / 4.48		135 / 5.87		0.0 / 0.00	154 / 2.52		170 / 4.80			0.5			643[g]	57	224	98	40		
5/4 1040		60	10.0	100	282	7.5 / 7.1	18 / 0.90	5.1 / 0.42	28 / 1.22	1.5 / 0.04	0.0 / 0.00	56 / 0.92	35 / 0.73	36 / 1.02	0.7 / 0.01		0.2	14	ABS 0.0 PO_4 0.20 As 0.0	169[g]	47	66	20	25		
6/15 0845		65	8.9	94	170	7.2 / 7.8	c / 0.72		17 / 0.74		0.0 / 0.00	36 / 0.59		23 / 0.65			0.1			104[g]	51	36	6	30		
7/13 0855		75	7.5	86	771	7.6 / 8.1	c / 3.32		86 / 3.74		0.0 / 0.00	138 / 2.26		114 / 3.22			0.2			456[g]	53	166	53	30		
8/13 0900		75	7.4	88	751	7.6 / 8.3	c / 3.08		93 / 4.05		2 / 0.07	134 / 2.20		125 / 3.53			0.2			439[g]	57	154	41	30		
9/14 1035		73	9.0	103	582	7.8 / 8.1	30 / 1.50	14 / 1.14	64 / 2.78	2.8 / 0.07	0.0 / 0.00	131 / 2.15	54 / 1.12	80 / 2.26	2.6 / 0.04		0.1	21	ABS 0.0 PO_4 0.48 As 0.0	345[g]	51	132	25	25		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE (STA. NO. 25c)

(B07375.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]		Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																				
1964																										Median 62. Maximum 620. Minimum 20.	USGS
10/6 0820	54	63	6.8	70	1720	7.6 / 8.2	c / 6.80		200 / 8.70		0.0 / 0.00	202 / 3.31	210 / 4.37	305 / 8.60			0.4				1003[e]	56	340	174	45		
11/9 0900	167	68	8.4	92	1920	7.4 / 8.2	c / 7.20		250 / 10.88		0.0 / 0.00	224 / 3.67	276 / 5.75	302 / 8.52			1.5				1119[e]	60	360	176	20		
12/8 0845	100	52	9.7	89	2550	7.5 / 8.5	c / 10.24		340 / 14.79		10 / 0.33	230 / 3.77	438 / 9.12	450 / 12.69			1.8				1487[e]	59	512	307	10		
1965																											
1/5 0905	1300	50	10.3	91	556	7.4 / 7.4	c / 2.58		61 / 2.65		0.0 / 0.00	104 / 1.70	82 / 1.71	67 / 1.89			0.5				324[e]	51	129	44	100		
2/2 0940	470	49	9.4	82	1380	7.3 / 8.2	c / 5.84		184 / 8.00		0.0 / 0.00	168 / 2.75	221 / 4.60	224 / 6.32			1.0				805[e]	58	292	154	40		
3/2 0930	276	51	8.3	75	1380	7.6 / 8.1	c / 5.76		172 / 7.48		0.0 / 0.00	152 / 2.49	246 / 5.12	210 / 5.92			1.2				805[e]	56	288	163	30		
4/6 0910	310	50	8.7	77	1430	/ 7.7	c / 6.00		182 / 7.92		0.0 / 0.00	172 / 2.82	206 / 4.29	250 / 7.05			0.8				834[e]	57	300	159	50		
5/4 0845	379	60	9.1	92	1140	7.7 / 7.6	56 / 2.79	25 / 2.09	140 / 6.09	4.4 / 0.11	0.0 / 0.00	147 / 2.41	180 / 3.75	178 / 5.02	3.8 / 0.06		0.9	24	ABS / PO_4 / As	0.1 / 0.95 / 0.01	703[g]	55	244	123	40		
6/15 0730	370	66	8.0	86	775	8.1 / 8.1	c / 3.38		90 / 3.92		0.0 / 0.00	143 / 2.34	70 / 1.46	127 / 3.58			0.2				459[e]	54	169	52	60		
7/13 0750	225	74	6.1	71	1010	7.5 / 8.2	c / 4.24		122 / 5.31		0.0 / 0.00	152 / 2.49	97 / 2.02	175 / 4.94			0.2				589[e]	56	212	87	42		
8/13 0800	199	77	6.7	80	1120	7.6 / 8.5	c / 4.88		135 / 5.87		8 / 0.27	164 / 2.69	98 / 2.04	205 / 5.78			0.3				653[e]	55	244	96	40		
9/14 0835	225	70	7.6	86	820	7.6 / 8.1	53 / 2.64	11 / 0.88	95 / 4.13	3.6 / 0.09	0.0 / 0.00	160 / 2.62	69 / 1.44	134 / 3.78	2.2 / 0.04		0.1	25	ABS / PO_4 / As	0.0 / 0.60 / 0.01	485[g]	53	176	45	30		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated

TABLE D-2

ANALYSES OF SURFACE WATER

SAN JOAQUIN RIVER AT FRIANT DAM (STA. NO. 24)

(B07885.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in milligrams per liter / milliequivalents per liter: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
1965																									Median 13. Maximum 62. Minimum .23	USGS
1/11 1515	48	54	10.0	94	104	6.9 / 7.9	c / 0.58		9.4 / 0.41		0.0 / 0.00	36 / 0.59		6.3 / 0.18			0.0			84[e]	41	29	0	7		
5/10 1355	98	55	12.4	118	46	7.2 / 6.9	3.8 / 0.19	0.7 / 0.06	4.3 / 0.19	0.5 / 0.01	0.0 / 0.00	18 / 0.30	2 / 0.04	2.5 / 0.07	1 / 0.02		0.0	9.8	ABS 0.0; PO_4 0.10; As 0.0	37[g]	42	12	0	1		
7/12 1315	210	57	12.1	117	39	7.1 / 7.6	c / 0.21		4 / 0.17		0.0 / 0.00	16 / 0.26		1.8 / 0.05			0.0			31[e]	45	10	0	1		
9/13 1100	102	55	11.6	109	44	7.1 / 7.4	3.6 / 0.18	0.9 / 0.07	3.7 / 0.16	0.6 / 0.02	0.0 / 0.00	18 / 0.30	1 / 0.02	2 / 0.06	0.7 / 0.01		0.0	10	ABS 0.0; PO_4 0.13; As 0.0	31[g]	37	12	0	3		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0/0.00 except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 GPO

TABLE D-2

ANALYSES OF SURFACE WATER

SAN JOAQUIN RIVER NEAR GRAYSON (STA. NO. 26)

(B07080.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]		Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																				
1964																										Median 62. Maximum 1300. Minimum 6.2	USGS
10/14 1200	845	65	7.8	81	812	7.6 / 8.2	c / 3.68		87 / 3.78		0.0 / 0.00	162 / 2.66		115 / 3.24			0.2				482[e]	51	184	51	20		
11/5 1040	682	60	7.6	76	1330	7.6 / 8.2	c / 5.36		164 / 7.13		0.0 / 0.00	216 / 3.54		204 / 5.75			0.8				790[e]	57	268	91	20		
12/9 1410	666	54	7.8	72	1430	7.8 / 8.3	c / 5.68		170 / 7.40		4 / 0.13	200 / 3.28		208 / 5.87			0.7				721[e]	57	284	113	2		
1965																											
1/18 1200	4500	49	8.6	75	461	7.2 / 7.4	c / 1.96		53 / 2.31		0.0 / 0.00	86 / 1.41		57 / 1.61			0.4				274[e]	54	98	27	130		
2/11 0900	2830	48	9.7	85	901	7.5 / 7.4	c / 3.72		112 / 4.87		0.0 / 0.00	122 / 2.00		127 / 3.58			0.6				535[e]	57	186	86	25		
3/5 1130	3300	52	9.0	82	201	7.1 / 7.7	c / 1.00		19 / 0.83		0.0 / 0.00	45 / 0.74		21 / 0.59			0.1				119[e]	45	50	13	30		
4/5 1230	1640	64	8.5	89	1000	7.5 / 8.0	c / 4.32		130 / 5.66		0.0 / 0.00	162 / 2.66		152 / 4.29			0.3				594[e]	57	216	83	40		
4/29 1220	2100	71	7.5	85	586	7.1 / 7.8	31 / 1.55	14 / 1.19	73 / 3.18	2.3 / 0.06	0.0 / 0.00	112 / 1.84	75 / 1.56	84 / 2.37	4.2 / 0.07		0.4	18	ABS PO_4 As	0.2 0.60 0.0	359[g]	53	137	45	25		
6/2 1030	1700	68	7.8	86	444	7.3 / 8.0	c / 1.88		48 / 2.09		0.0 / 0.00	78 / 1.28		65 / 1.83			0.1				264[e]	53	94	30	25		
7/8 1330	1000	80	9.8	120	815	7.8 / 8.2	c / 3.68		92 / 4.00		0.0 / 0.00	142 / 2.33		126 / 3.55			0.1				484[e]	52	184	68	37		
8/2 1015	660	79	5.2	64	979	7.5 / 8.3	c / 4.32		116 / 5.05		2 / 0.07	176 / 2.88		156 / 4.40			0.3				582[e]	54	216	68	30		
9/14 1145	700	73	9.6	110	791	7.9 / 8.2	38 / 1.90	20 / 1.66	93 / 4.05	3.4 / 0.09	0.0 / 0.00	160 / 2.62	81 / 1.69	116 / 3.27	6 / 0.10		0.2	24	ABS PO_4 As	0.0 0.54 0.0	473[g]	53	178	47	20		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in mg/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc (TTL), or California Department of Water Resources (DWR), as indicated

TABLE D-2

ANALYSES OF SURFACE WATER

SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE (STA. NO. 26a)

(B07040.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents d	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Jackson Turb Units	Coliform h MPN/ml	Analyzed by i
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median 230. Maximum 7000. Minimum 6.2	USGS
10/14 1050	1240	66	7.1	76	875	7.4 / 8.1	c / 3.76		89 / 3.87		0.0 / 0.00	156 / 2.56		139 / 3.92			0.2			488e	51	188	60	15		
11/5 1215	1360	61	7.2	73	848	7.4 / 8.2	c / 3.32		94 / 4.09		0.0 / 0.00	132 / 2.16		132 / 3.72			0.4			473e	55	166	58	20		
12/9 1215	1800	55	8.0	75	659	7.2 / 7.9	c / 2.64		78 / 3.39		0.0 / 0.00	96 / 1.57		98 / 2.76			0.3			366e	56	132	53	1		
1965																										
1/18 1130	8650	49	7.2	65	375	7.1 / 7.4	c / 1.68		40 / 1.74		0.0 / 0.00	72 / 1.18		49 / 1.38			0.3			210e	51	84	25	50		
2/11 0950	7180	47	10.7	91	314	6.9 / 7.5	c / 1.34		34 / 1.48		0.0 / 0.00	52 / 0.85		42 / 1.18			0.2			175e	52	67	24	15		
3/5 1100	5100	53	9.3	86	191	7.1 / 7.5	c / 0.94		18 / 0.78		0.00 / 0.00	42 / 0.69		25 / 0.71			0.1			107e	45	47	13	30		
4/5 1145	4800	60	8.8	88	357	7.3 / 7.6	c / 1.52		41 / 1.78		0.0 / 0.00	64 / 1.05		52 / 1.47			0.0			199e	54	76	24	15		
4/29 0850	6300	66	7.8	84	366	7.3 / 7.5	20 / 1.00	9.5 / 0.78	40 / 1.74	1.8 / 0.05	0.0 / 0.00	76 / 1.25	42 / 0.87	51 / 1.44	2.0 / 0.03		0.2	18	ABS 0.2; PO_4 0.35; As 0.0	216g	49	89	27	25		
6/2 1000	2498	68	7.6	83	458	7.3 / 8.1	c / 2.04		49 / 2.13		0.0 / 0.00	81 / 1.33		76 / 2.14			0.2			256e	51	102	36	30		
7/8 1355	1845	78	8.4	101	669	7.4 / 8.2	c / 3.00		76 / 3.31		0.0 / 0.00	110 / 1.80		117 / 3.30			0.1			373e	52	150	60	28		
8/2 1045	962	78	5.1	63	912	7.5 / 8.2	c / 4.00		102 / 4.44		0.0 / 0.00	153 / 2.51		168 / 4.74			0.2			509e	53	200	75	37		
9/14 1310	1230	73	9.6	110	753	7.8 / 8.2	39 / 1.95	17 / 1.41	84 / 3.65	4 / 0.10	0.0 / 0.00	148 / 2.43	53 / 1.10	125 / 3.53	6.3 / 0.10		0.2	27	ABS 0.0; PO_4 0.58; As 0.0	448g	51	168	47	25		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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TABLE D-2

ANALYSES OF SURFACE WATER

SAN JOAQUIN RIVER NEAR MENDOTA (STA. NO. 25)

(B07710.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N C mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median 6.2 Maximum 620. Minimum .23	USGS
10/13 1220	113	69	10.7	118	451	7.3/8.0	c/2.32		44/1.91		0.0/0.00	110/1.80		58/1.64			0.2			261[e]	45	116	26	30		
11/9 1235	37	62	9.8	100	686	/8.1	c/3.22		75/3.26		0.0/0.00	134/2.20		102/2.88			0.4			397[e]	50	161	51	20		
12/14 1410	50	52	19.4	175	686	8.3/8.4	c/2.96		81/3.52		4/0.13	104/1.70		93/2.62			0.4			397[e]	54	148	56	2		
1965																										
1/11 0800	0.5	40	11.4	87	520	7.7/7.8	c/1.96		79/3.44		0.0/0.00	119/1.95		72/2.03			0.2			300[e]	64	98	0	10		
2/8 1219	30	54	21.3	198	393	8.3/7.9	c/1.78		41/1.78		0.0/0.00	67/1.10		47/1.33			0.3			227[e]	50	89	34	15		
3/8 1400	230	62	11.2	115	366	7.6/7.9	c/1.64		38/1.65		0.0/0.00	64/1.05		50/1.41			0.2			211[e]	50	82	30	50		
4/12 1500	140	62	13.8	141	635	8.9/8.2	c/2.92		69/3.00		0.0/0.00	100/1.64		94/2.65			0.3			368[e]	51	146	64	11		
5/13 0735	360	64	9.3	97	287	7.6/7.6	16/0.80	7.2/0.59	27/1.17	1.8/0.05	0.0/0.00	62/1.02	23/0.48	38/1.07	1.2/0.02		0.1		ABS 0.0; PO_4 0.25; As 0.0	166[f]	45	70	19	30		
6/14 1120	400	70	8.7	97	297	7.5/7.9	c/1.38		28/1.22		0.0/0.00	56/0.92		40/1.13			0.4			172[e]	47	69	23	90		
7/12 0925	430	75	7.1	84	291	7.5/7.8	c/1.48		28/1.22		0.0/0.00	67/1.10		37/1.04			0.0			168[e]	45	74	19	60		
8/9 0950	400	76	7.5	89	309	7.4/8.2	c/1.68		29/1.26		0.0/0.00	79/1.29		36/1.02			0.1			179[e]	43	84	19	55		
9/13 1300	240	75	8.7	101	462	7.6/7.7	30/1.50	10/0.84	46/2.00	2.6/0.07	0.0/0.00	104/1.70	41/0.85	62/1.75	1.5/0.02		0.1	16	ABS 0.0; PO_4 0.35; As 0.0	270[g]	45	117	32	25		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 (0.00) except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

SAN JOAQUIN RIVER AT PATTERSON BRIDGE (STA. NO. 27a)
(B07200.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median 230. Maximum 620. Minimum 23.	USGS
10/6 0950		66	7.3	78	670	7.5 / 8.2	c / 2.96		76 / 3.31		0.0 / 0.00	142 / 2.33		96 / 2.71			0.2			372[g]	53	148	32	20		
11/9 1040		69	8.2	91	1210	7.4 / 7.8	c / 4.92		155 / 6.74		0.0 / 0.00	206 / 3.38		185 / 5.22			1.0			729[g]	58	246	77	15		
12/8 1020		59	9.4	93	1270	7.4 / 8.2	c / 4.88		125 / 5.44		4 / 0.13	188 / 3.08		186 / 5.25			0.8			723[g]	53	244	83	10		
1965																										
1/5 1050		51	10.0	90	610	7.5 / 8.0	c / 2.66		70 / 3.04		0.0 / 0.00	121 / 1.98		73 / 2.06			0.5			377[g]	53	133	34	90		
2/2 1215		49	10.1	89	554	7.4 / 8.1	c / 2.24		68 / 2.96		0.0 / 0.00	80 / 1.31		74 / 2.09			0.4			340[g]	57	112	46	60		
3/2 1120		53	9.4	88	1310	7.5 / 8.2	c / 5.28		169 / 7.35		0.0 / 0.00	162 / 2.66		192 / 5.42			0.8			811[g]	58	264	131	20		
4/6 1140		53	9.2	85	1020	/ 7.9	c / 4.32		129 / 5.61		0.0 / 0.00	162 / 2.66		165 / 4.65			0.4			607[g]	56	216	0	40		
5/4 1130		61	9.9	101	304	7.4 / 7.1	18 / 0.90	6.1 / 0.50	32 / 1.39	1.5 / 0.04	0.0 / 0.00	60 / 0.98	36 / 0.75	39 / 1.10	1.3 / 0.02		0.2	15	ABS 0.1 PO_4 0.35 As 0.0	175[g]	49	70	21	20		
6/15 0920		63	9.0	93	148	7.2 / 7.7	c / 0.68		15 / 0.65		0.0 / 0.00	37 / 0.61		17 / 0.48			0.1			94[g]	49	34	4	30		
7/13 0910		75	8.3	98	918	7.6 / 8.3	c / 3.76		112 / 4.87		2 / 0.07	152 / 2.49		144 / 4.06			0.2			540[g]	56	188	60	28		
8/13 0935		74	7.5	87	645	7.5 / 8.3	c / 2.76		76 / 3.31		2 / 0.07	126 / 2.07		96 / 2.71			0.2			378[g]	55	138	31	25		
9/14 1100		72	8.5	97	683	7.5 / 7.9	26 / 1.30	20 / 1.66	79 / 3.44	3 / 0.08	0.0 / 0.00	147 / 2.41	60 / 1.25	98 / 2.76	0.2 / 0.00		0.1	20	ABS 0.0 PO_4 0.54 As 0.0	385[g]	53	148	27	30		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 JRO

TABLE D-2

ANALYSES OF SURFACE WATER

SAN JOAQUIN RIVER NEAR VERNALIS (STA. NO. 27)

(B07020.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents d	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform h MPN/ml	Analyzed by i
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																										USGS
10/7 0730	1300	72	6.7	76	739	7.3 / 8.2	c / 3.40		77 / 3.35		0.0 / 0.00	156 / 2.56		112 / 3.16			0.1			417e	50	170	42	20	Median 230. Maximum 2400. Minimum 13.	
11/10 0855	1790	57	7.2	71	697	7.4 / 7.4	c / 3.00		80 / 3.48		0.0 / 0.00	127 / 2.08		108 / 3.05			0.4			393e	54	150	46	10		
12/9 0920	2030	54	9.0	84	596	7.2 / 8.2	c / 2.54		64 / 2.78		1 / 0.03	99 / 1.62		92 / 2.60			0.3			336	52	127	44	10		
1965																										
1/6 0945	14300	52	8.5	77	213	7.0 / 7.6	c / 1.10		19 / 0.83		0.0 / 0.00	55 / 0.90		21 / 0.59			0.1			120e	43	55	10	30		
2/3 0930	8670	49	10.5	93	273	7.1 / 7.9	c / 1.30		28 / 1.22		0.0 / 0.00	56 / 0.92		35 / 0.99			0.1			154e	48	65	19	10		
3/3 1015	5620	50	10.5	93	326	7.2 / 7.9	c / 1.50		34 / 1.48		0.0 / 0.00	62 / 1.02		46 / 1.30			0.1			184e	50	75	24	7		
4/7 0845	6400	52	10.0	91	309	/ 7.6	c / 1.40		34 / 1.48		0.0 / 0.00	65 / 1.07		42 / 1.18			0.0			174e	51	70	17	20		
5/5 0900	6270	59	9.5	95	240	7.2 / 7.7	15 / 0.75	5.5 / 0.45	22 / 0.96	1.3 / 0.03	0.0 / 0.00	60 / 0.98	17 / 0.35	32 / 0.90	3.5 / 0.06		0.0	20	ABS 0.0 PO4 0.25 As 0.0	145g	44	60	11	20		
6/16 0905	8250	64	8.8	92	156	7.3 / 7.8	c / 0.82		13 / 0.57		0.0 / 0.00	38 / 0.62		21 / 0.59			0.0			88e	41	41	10	40		
7/14 0740	2350	73	7.5	86	543	7.6 / 8.2	c / 2.52		58 / 2.52		0.0 / 0.00	104 / 1.70		88 / 2.48			0.1			306e	50	126	41	25		
8/11 0900	1100	75	7.6	89	853	7.6 / 8.4	c / 3.96		93 / 4.05		4 / 0.13	148 / 2.43		153 / 4.32			0.2			481e	51	198	70	35		
9/15 0745	1400	72	8.1	93	736	7.4 / 8.2	39 / 1.95	17 / 1.39	76 / 3.31	3.6 / 0.09	0.0 / 0.00	144 / 2.36	51 / 1.06	122 / 3.44	5.5 / 0.09		0.2	24	ABS 0.0 PO4 0.52 As 0.01	428g	49	167	49	20		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in mg/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0/0.00 except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated

32505-D-H 8-62 200 JR

TABLE D-2

ANALYSES OF SURFACE WATER

STANISLAUS RIVER AT KOETITZ RANCH (STA. NO. 29)

(B03115.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25° C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents d	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Jackson Units	Coliform h MPN/ml	Analyzed by i
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median 62. Maximum 620. Minimum 2.3	USGS
10/6 1120	180	69	5.7	62	329	7.4 / 8.3	c / 2.34		26 / 1.13		4 / 0.13	178 / 2.92		8.7 / 0.25			0.0			222e	33	117	0	3		
11/9 1155	204	69	8.1	89	216	7.2 / 7.9	c / 1.66		11 / 0.48		0.0 / 0.00	110 / 1.80		5.6 / 0.16			0.2			146e	22	83	0	1		
12/8 1220	207	55	9.7	92	222	7.3 / 8.3	c / 1.72		13 / 0.57		2 / 0.07	108 / 1.77		6.2 / 0.17			0.1			150e	25	86	0	2		
1965																										
1/5 1230	2580	50	10.0	89	90	7.0 / 7.9	c / 0.72		3.8 / 0.17		0.0 / 0.00	40 / 0.66		1.2 / 0.03			0.1			61e	19	36	3	40		
2/2 1410	2690	48	11.2	97	80	7.1 / 7.9	c / 0.62		3.6 / 0.16		0.0 / 0.00	38 / 0.62		1.3 / 0.04			0.0			54e	21	31	0	10		
3/3 0920	1785	50	11.1	99	81	7.1 / 7.8	c / 0.62		3.8 / 0.17		0.0 / 0.00	39 / 0.64		1.5 / 0.04			0.0			55e	22	31	0	20		
4/6 1320	220	52	10.5	95	77	/ 7.4	c / 0.60		3.8 / 0.17		0.0 / 0.00	37 / 0.61		1.6 / 0.05			0.0			52e	22	30	0	9		
5/4 1250	3700	58	9.9	97	70	7.2 / 7.6	8.2 / 0.41	1.6 / 0.13	2.9 / 0.13	1 / 0.03	0.0 / 0.00	36 / 0.59	3 / 0.06	0.9 / 0.03	2.1 / 0.03		0.0	18	ABS 0.0 PO_4 0.05 As 0.0	53g	19	27	0	20		
6/15 1020	3750	62	9.4	96	50	7.2 / 7.7	c / 0.38		2.2 / 0.10		0.0 / 0.00	24 / 0.39		0.5 / 0.01			0.0			34e	21	19	0	25		
7/13 1015	400	72	7.7	88	228	7.2 / 8.4	c / 1.80		12 / 0.52		2 / 0.07	112 / 1.84		6.2 / 0.17			0.0			154e	22	90	0	5		
8/13 1105	343	75	7.7	90	188	7.3 / 8.3	c / 1.46		10 / 0.44		1 / 0.03	89 / 1.46		6 / 0.17			0.0			127e	23	73	0	10		
9/14 1235	318	73	8.0	93	184	7.2 / 7.8	17 / 0.85	6.7 / 0.55	9.5 / 0.41	2.4 / 0.06	0.0 / 0.00	89 / 1.46	7 / 0.15	5.4 / 0.15	4 / 0.06		0.0	22	ABS 0.0 PO_4 0.27 As 0.0	119g	22	70	0	10		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc (TTL); or California Department of Water Resources (DWR); as indicated.

32505-DH 6-61 200 LPO

TABLE D-2

ANALYSES OF SURFACE WATER

STANISLAUS RIVER BELOW TULLOCH DAM (STA. NO. 29a)

(B32150.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents d		Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N C mg/l	Turbidity Turb units	Coliform h MPN/ml	Analyzed by i
							Mineral constituents in milligrams per liter / milliequivalents per liter																				
1965																										Median .23	USGS
1/11 1115	4455	52	12.3	111	73	7.1 / 7.8	c / 0.58		3.4 / 0.15		0.0 / 0.00	23 / 0.54		1 / 0.03			0.0				54[e]	21	29	2	15	Maximum 230. Minimum .06	
5/10 0810	4185	57	11.0	106	46	6.8 / 7.2	5.2 / 0.26	1 / 0.08	2.4 / 0.10	0.6 / 0.02	0.0 / 0.00	22 / 0.36	1 / 0.02	0.2 / 0.01	3.6 / 0.06		0.0	12	ABS 0.0 PO_4 0.0 As 0.0		36[g]	22	17	0	1		
7/12 0855	1700	65	8.2	88	44	7.0 / 7.8	c / 0.34		2.1 / 0.09		0.0 / 0.00	22 / 0.36		0.6 / 0.02			0.0				32[e]	21	17	0	1		
9/2 1430	1610	72	5.6	64	51	6.8 / 7.7	7.4 / 0.37	0.4 / 0.03	2.1 / 0.09	1 / 0.03	0.0 / 0.00	26 / 0.43	1 / 0.02	0.4 / 0.01	1.7 / 0.03		0.0	13	ABS 0.0 PO_4 0.01 As 0.0		41[g]	17	20	0	1		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

TULE RIVER NEAR SPRINGVILLE (STA. NO. 91b)

(C31150.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by i
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																										USGS
10/8 0930	2	66	2.6	27	452	8.1	c 3.50		28 / 1.22		0.0 / 0.00	256 / 4.20		17 / 0.48			0.2			299[e]	26	175	0	1		
11/3 1130	21	56	10.2	98	431	8.1	c 3.48		25 / 1.09		0.0 / 0.00	253 / 4.15		12 / 0.34			0.4			285[e]	24	174	0	1		
12/7 0940	43	46	10.6	89	346	8.0	c 2.88		17 / 0.74		0.0 / 0.00	202 / 3.31		9.4 / 0.27			0.2			221[g]	20	144	0	2		
1965																										
1/5 1000	468	48	11.1	97	141	7.7	1.02		9 / 0.39		0.0 / 0.00	72 / 1.18		3.2 / 0.09			0.0			93[e]	28	51	0	10		
2/1 1034	192	46	10.9	92	165	8.2	c 1.28		8.6 / 0.37		0.0 / 0.00	92 / 1.51		3.5 / 0.10			0.2			109[e]	22	64	0	2		
3/2 0950	129	48	10.6	92	196	8.1	c 1.58		9.4 / 0.41		0.0 / 0.00	112 / 1.84		4.3 / 0.12			0.0			130[e]	21	79	0	2		
4/6 0922	204	49	12.6	110	166	8.1	c 1.28		9.3 / 0.40		0.0 / 0.00	92 / 1.51		3.2 / 0.09			0.1			110[e]	24	64	0	1		
5/3 0933	375	50	11.3	101	104	7.1	14 / 0.70	1.1 / 0.09	5.4 / 0.23	0.9 / 0.02	0.0 / 0.00	58 / 0.95	1 / 0.02	1.9 / 0.05	0.4 / 0.01		0.0	19	ABS 0.0 PO_4 0.0 As 0.0	65[g]	22	40	0	2		
6/7 0845	298	58	10.2	102	113	8.1	c 0.88		5.5 / 0.24		0.0 / 0.00	61 / 1.00		2.2 / 0.06			0.0			75[e]	21	44	0	3		
7/12 0940	53	64	10.1	107	261	8.0	c 2.20		11 / 0.48		0.0 / 0.00	152 / 2.49		5.7 / 0.16			0.0			173[e]	18	110	0	3		
8/3 0755	26	70	9.7	108	323	7.7	c 2.70		16 / 0.70		0.0 / 0.00	195 / 3.20		7.9 / 0.22			0.1			214[e]	21	135	0	1		
9/13 0945	15	64	11.7	121	389	8.3	52 / 2.59	7.9 / 0.65	22 / 0.96	3.6 / 0.09	3 / 0.10	229 / 3.75	5 / 0.10	10 / 0.28	2.7 / 0.04		0.2	31	ABS 0.0 PO_4 0.10 As 0.0	249[g]	22	162	0	1		

a Field pH.

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-DH 6-61 200 JPO

TABLE D-2

ANALYSES OF SURFACE WATER

TULE RIVER BELOW SUCCESS DAM (STA. NO. 91)

(C03195.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Median .16+ Maximum .16+ Minimum .16+	USGS
10/8 1010	24	72	4.0	46	254	8.0	c 2.04		14 / 0.61		0.0 / 0.00	143 / 2.34		5.5 / 0.16			0.1			154[g]	23	102	0	1		
11/3 1430	1	66	11.3	121	368	8.2	c 2.96		21 / 0.91		0.0 / 0.00	218 / 3.57		7.7 / 0.22			0.1			226[g]	24	148	0	1		
12/7 1005	67	53	10.3	95	286	7.8	c 2.20		16 / 0.70		0.0 / 0.00	156 / 2.56		8 / 0.23			0.2			188[g]	24	110	0	2		
1965																										
1/5 1035	602	49	10.5	93	179	8.2	c 1.34		10 / 0.44		0.0 / 0.00	95 / 1.56		4.5 / 0.13			0.0			125[g]	25	67	0	10		
2/1 1250	99	50	11.5	102	161	8.2	c 1.24		8.7 / 0.38		0.0 / 0.00	86 / 1.41		4.2 / 0.12			0.0			111[g]	23	62	0	14		
3/2 1020	50	50	12.4	110	180	7.9	c 1.40		9.6 / 0.42		0.0 / 0.00	96 / 1.57		4.8 / 0.14			0.0			119[g]	23	70	0	5		
4/6 1025	3	55	12.5	117	314	8.3	c 2.62		16 / 0.70		2 / 0.07	182 / 2.98		6.2 / 0.17			0.1			197[g]	21	131	0	1		
5/3 1200	94	54	13.6	126	186	7.5	26 / 1.30	1.7 / 0.14	10. / 0.44	1.6 / 0.04	0.0 / 0.00	101 / 1.66	4 / 0.08	4.1 / 0.12	1.8 / 0.03		0.1	23	ABS 0.0; PO_4 0.05; As 0.0	130[g]	23	72	0	2		
6/7 1010	133	58	12.6	124	176	8.3	c 1.38		9.7 / 0.42		1 / 0.03	93 / 1.52		4.4 / 0.12			0.0			119[g]	23	69	0	4		
7/12 1028	303	60	11.1	111	162	8.1	c 1.26		8.3 / 0.36		0.0 / 0.00	86 / 1.41		3.8 / 0.11			0.0			109[g]	22	63	0	3		
8/3 0905	373	64	9.4	98	152	8.5	c 1.18		7.4 / 0.32		2 / 0.07	82 / 1.34		3.4 / 0.10			0.1			120[g]	21	59	0	1		
9/13	30	70	10.9	121	182	7.5	23 / 1.15	3.5 / 0.29	8.5 / 0.37	2.5 / 0.06	0.0 / 0.00	97 / 1.59	5 / 0.10	3.5 / 0.10	5.5 / 0.09		0.0	24	ABS 0.0; PO_4 0.14; As 0.0	128[g]	20	72	0	4		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

TUOLUMNE RIVER BELOW DON PEDRO DAM (STA. NO. 31a)

(B41100.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25° C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[d]	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform[h] MPN/ml	Analyzed by[i]
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1965																										USGS
1/19 1000	2310	46	10.2	88	62	6.8 / 7.8	c / 0.50		3 / 0.13		0.0 / 0.00	28 / 0.46		1 / 0.03			0.1			47[e]	21	25	2	15		
4/30 1415	3620	52	10.1	92	53	7.1 / 7.0	7.4 / 0.37	0.6 / 0.05	2.7 / 0.12	0.8 / 0.02	0.0 / 0.00	25 / 0.41	3 / 0.06	1 / 0.03	0.9 / 0.01		0.0	12	ABS 0.0 PO_4 0.0 As 0.0	42[g]	21	21	1	7		
7/8 0935	3400	69	7.6	84	44	7.2 / 7.6	c / 0.32		2.5 / 0.11		0.0 / 0.00	20 / 0.33		1.1 / 0.03			0.0			34[e]	26	16	0	1		
9/3 1010	2410	64	6.1	65	24	6.8 / 7.3	3.2 / 0.16	0.2 / 0.02	1.3 / 0.06	0.4 / 0.01	0.0 / 0.00	10 / 0.16	2 / 0.04	0.3 / 0.01	1.6 / 0.03		0.1	5.4	ABS 0.0 PO_4 0.0 As 0.0	20[g]	24	9	1	2		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-DH 6-61 200 JPU

TABLE D-2

ANALYSES OF SURFACE WATER

TUOLUMNE RIVER AT HICKMAN BRIDGE (STA. NO. 30)

(B04150.00)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen % Sat	Specific conductance (micromhos at 25°C)	pH a/b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents d	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ NC mg/l	Turbidity Jackson Turb Units	Coliform h MPN/ml	Analyzed by i
							milligrams per liter / milliequivalents per liter																			
1964																										USGS
10/14 0815	100	67	7.5	81	517	7.6 / 8.3	c / 2.48		49 / 2.13		4 / 0.13	108 / 1.77		99 / 2.79			0.0			301e	46	124	29	15		
11/6 1020	724	62	7.6	77	91	7.1 / 7.9	c / 0.56		7.1 / 0.31		0.0 / 0.00	26 / 0.43		11 / 0.31			0.0			53e	36	28	7	4		
12/9 1520	925	54	9.9	93	77	7.0 / 7.4	c / 0.43		6 / 0.26		0.0 / 0.00	23 / 0.38		8.4 / 0.24			0.0			49e	38	22	3	1		
1965																										
1/19 0830	2530	47	10.4	90	74	6.9 / 7.9	c / 0.58		4 / 0.17		0.0 / 0.00	32 / 0.52		2.6 / 0.07			0.1			43e	23	29	3	20		
2/9 0905	4240	46	10.6	90	61	7.0 / 7.1	c / 0.42		4.5 / 0.20		0.0 / 0.00	27 / 0.44		1.7 / 0.05			0.2			36e	32	21	0	6		
3/5 1345	1550	51	10.8	96	63	7.3 / 7.4	c / 0.42		4.1 / 0.18		0.0 / 0.00	25 / 0.41		4.3 / 0.12			0.0			37e	30	21	1	3		
4/5 1430	2720	52	10.4	94	50	7.1 / 7.0	c / 0.37		3.5 / 0.15		0.0 / 0.00	22 / 0.36		2.5 / 0.07			0.0			29e	29	19	1	4		
4/28 1630	2040	59	10.3	102	97	7.7 / 7.4	11 / 0.55	0.4 / 0.03	6.7 / 0.29	1.2 / 0.03	0.0 / 0.00	32 / 0.52	4 / 0.08	12 / 0.34	0.8 / 0.01		0.0	13	ABS 0.0 PO_4 0.05 As 0.0	67f	32	29	3	15		
6/2 1345	1150	68	8.2	91	57	/ 7.6	c / 0.36		3.8 / 0.17		0.0 / 0.00	20 / 0.33		4.1 / 0.12			0.0			33e	32	18	2	10		
7/8 1030	449	70	7.6	85	107	7.1 / 7.8	c / 0.60		8.3 / 0.36		0.0 / 0.00	32 / 0.52		14 / 0.39			0.0			62e	38	30	4	2		
8/3 1120	127	79	8.3	102	372	7.9 / 7.9	c / 1.78		35 / 1.52		0.0 / 0.00	93 / 1.52		65 / 1.83			0.1			217e	46	89	13	4		
9/2 0810	125	75	10.5	123	481	7.4 / 8.2	29 / 1.45	8.9 / 0.73	47 / 2.04	4.7 / 0.12	0.0 / 0.00	98 / 1.61	4 / 0.08	97 / 2.74	1.2 / 0.02		0.1	47	ABS 0.0 PO_4 0.15 As 0.0	317f	47	109	29	3		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

TUOLUMNE RIVER AT TUOLUMNE CITY (STA. NO. 31)

(B04105.00)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen mg/l	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents d	Total dissolved solids mg/l	Percent sodium	Hardness as $CaCO_3$ Total mg/l	Hardness as $CaCO_3$ N.C. mg/l	Turbidity Turb Units	Coliform h MPN/ml	Analyzed by i
							Mineral constituents in milligrams per liter / milliequivalents per liter																			
1964																									Medien 620. Maximum 7000. Minimum 62.	USGS
10/14 1230	345	67	6.5	70	748	7.2 / 8.1	c / 3.28		78 / 3.39		0.0 / 0.00	130 / 2.13		152 / 4.29			0.1			428e	51	164	57	1		
11/5 1000	485	60	5.5	56	325	7.0 / 7.9	c / 1.40		32 / 1.39		0.0 / 0.00	57 / 0.93		66 / 1.86			0.1			186e	50	70	23	2		
12/9 1330	1070	55	7.9	75	246	6.9 / 7.4	c / 1.04		25 / 1.09		0.0 / 0.00	42 / 0.69		48 / 1.35			0.0			141e	51	52	18	2		
1965																										
1/18 1220	3200	48	9.7	84	149	6.9 / 7.9	c / 0.88		12 / 0.52		0.0 / 0.00	40 / 0.66		21 / 0.59			0.1			85e	37	44	11	20		
2/11 0815	3600	47	10.8	92	98	6.9 / 7.3	c / 0.56		7.3 / 0.32		0.0 / 0.00	26 / 0.43		12 / 0.34			0.1			56e	36	28	7	7		
3/5 1145	2100	52	5.9	53	164	7.0 / 7.7	c / 0.82		14 / 0.61		0.0 / 0.00	38 / 0.62		27 / 0.76			0.1			94e	43	41	10	8		
4/5 1245	3500	55	9.1	86	106	7.0 / 6.9	c / 0.56		8.7 / 0.38		0.0 / 0.00	26 / 0.43		17 / 0.48			0.0			61e	40	28	7	15		
4/29 1130	2050	61	7.1	73	168	7.1 / 8.4	12 / 0.60	3.4 / 0.28	15 / 0.65	1.7 / 0.04	3 / 0.10	38 / 0.62	5 / 0.10	26 / 0.73	2.4 / 0.04		0.0	8.5	ABS 0.0 PO_4 0.0 As 0.0	102g	41	44	8	10		
6/2 1040	848	69	-	-	375	7.1 / 8.3	c / 1.70		39 / 1.70		2 / 0.07	66 / 1.08		76 / 2.14			0.0			215e	50	85	28	10		
7/8 1315	860	78	6.5	78	385	7.2 / 8.1	c / 1.70		38 / 1.65		0.0 / 0.00	72 / 1.18		76 / 2.14			0.0			220e	49	85	26	15		
8/2 1000	600	76	5.0	60	651	7.5 / 7.8	c / 2.84		70 / 3.04		0.0 / 0.00	124 / 2.03		134 / 3.78			0.1			372e	52	142	40	15		
9/14 1210	400	73	6.4	74	631	7.2 / 8.2	37 / 1.85	11 / 0.91	65 / 2.83	5.3 / 0.14	0.0 / 0.00	112 / 1.84	8 / 0.17	130 / 3.67	8.1 / 0.13		0.0	34	ABS 0.0 PO_4 0.82 As 0.01	398g	49	138	46	10		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in me/l.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 SPO

TABLE D-3

ANALYSES OF TRACE ELEMENTS IN SURFACE WATER

Station	Sta No	Date	Constituents in micrograms per liter																
			Aluminum (Al)	Beryllium (Be)	Bismuth (Bi)	Cadmium (Cd)	Cobalt (Co)	Chromium (Cr)	Copper (Cu)	Iron (Fe)	Gallium (Ga)	Germanium (Ge)	Manganese (Mn)	Molybdenum (Mo)	Nickel (Ni)	Lead (Pb)	Titanium (Ti)	Vanadium (V)	Zinc (Zn)
San Joaquin River at Fremont Ford Bridge	25c	5- 4	64	<0.57	<0.29	<1.4	<1.4	<1.4	≤1.4	157	<5.7	<0.29	13	8.0	2.7	<1.4	4.0	8.6	<5.7
		9-14	23	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	56	<13	<0.67	6.7	8.0	3.9	11	2.5	22	<13
San Joaquin River near Vernalis	27	5- 5	28	<0.57	<0.29	<1.4	<1.4	<1.4	≤1.4	111	<5.7	<0.29	≤1.4	1.1	1.4	<1.4	<0.57	2.6	<5.7
		9-15	<1.4	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	8.0	<5.7	<0.29	<1.4	2.6	1.1.	<1.4	<0.57	5.4	<5.7
Stanislaus River at Koetitz Ranch	29	5- 4	26	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	136	<5.7	<0.29	<1.4	≤0.29	0.63	<1.4	<0.57	1.7	<5.7
		9-14	829	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	>50	<5.7	<0.29	<1.4	<0.29	3.1	<1.4	89	15	<5.7
Tuolumne River at Tuolumne City	31	4-29	8.0	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	84	<5.7	<0.29	<1.4	≤0.29	2.2	<1.4	0.57	2.8	<5.7
		9-14	8.0	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	29	<13	<0.67	12	2.7	1.8	12	1.3	17	<13
Merced River near Stevinson	32	5- 4	21	<0.57	<0.29	<1.4	<1.4	<1.4	≤1.4	56	<5.7	<0.29	<1.4	≤0.29	0.80	<1.4	1.3	1.4	<5.7
		9-14	35	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	87	<13	<0.67	<3.3	3.1	1.3	11	2.0	8.0	<13
Kings River below People's Weir	34	5-10	8.3	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	50	<5.7	<0.29	<1.4	1.4	0.71	<1.4	<0.57	0.86	<5.7
		9-13	11	<1.3	<0.67	<3.3	<3.3	<3.3	<3.3	60	<13	<0.67	<3.3	2.7	1.7	13	1.7	1.5	<13
Kern River near Bakersfield	36	5- 4	16	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	51	<5.7	<0.29	<1.4	4.9	0.40	<1.4	≤0.57	1.7	<5.7
		9- 1	23	<1.3	35	40	31	37	41	127	73	64	107	26	29	41	43	48	<13
Tule River below Success Dam	91	5- 3	6.3	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	18	<5.7	<0.29	<1.4	1.7	0.60	<1.4	<0.57	4.0	<5.7
		9-13	<1.4	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	24	<5.7	<0.29	<1.4	<0.29	1.4	<1.4	<0.57	1.6	<5.7
Delta-Mendota Canal near Mendota	92	5-13	27	<0.57	<0.29	<1.4	<1.4	<1.4	≤1.4	34	<5.7	<0.29	<1.4	1.3	1.0	<1.4	0.86	3.1	<5.7
		9-13	34	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	49	<5.7	<0.29	<1.4	<0.29	1.3	<1.4	1.9	9.1	<5.7
Delta-Mendota Canal near Tracy	93	5- 5	18	<0.57	<0.29	<1.4	<1.4	<1.4	≤1.4	84	<5.7	<0.29	<1.4	1.6	1.3	<1.4	<0.57	3.7	<5.7
		9-15	<1.4	<0.57	1.0	<1.4	<1.4	<1.4	<1.4	12	<5.7	<0.29	<1.4	<0.29	<0.29	<1.4	<0.57	13	<5.7

> more than the amount indicated

< less than the amount indicated

≤ equal to, but slightly less than the amount indicated

APPENDIX E

GROUND WATER QUALITY

APPENDIX E. GROUND WATER QUALITY

Introduction

During the 1965 water year, 486 wells were sampled throughout the San Joaquin Valley. The locations of these wells are shown on Plate 10.

The program during the 1965 water year included detailed sampling in Stanislaus County, Madera County, and a portion of western Kern County.

Detailed sampling was also conducted at certain locations found to have significant deviation in quality from surrounding areas.

The detailed sampling program in Stanislaus County was conducted to update past data and to provide sufficient information to prepare detailed water quality maps of the area. These maps will assist in reevaluating the present sampling network.

The detailed sampling program in Madera County was carried out by the U. S. Geological Survey as part of its ground water investigation throughout the county in cooperation with the Department of Water Resources. At the conclusion of the investigation, the information made available will assist in preparing a new sampling grid in the county.

A detailed sampling program covering all of Kern County was begun in 1963 but because of the complexity of the conditions there, the county was divided into small areas. The first two areas in west central Kern County are nearing completion and a third in the northwestern portion is beginning. Data for the two areas in west central Kern County can be found in Bulletins No. 130-63, No. 130-64, and No. 130-65.

Areas throughout the valley that have specific problems or significant deviations in quality are being investigated to determine causes. These areas (shown by wells) and the status of investigations are indicated in Table E-1.

Measurement Techniques

Definitions

The same definitions as found in Appendixes C and D apply to special terms used in this appendix.

Methods and Procedures

Data on ground water quality are obtained from several programs in the San Joaquin District and also from investigations conducted by the U. S. Geological Survey. Analyses of these data are published in this report.

Samples collected by the Department and by many cooperators are analyzed by the Department of Water Resources or the U. S. Geological Survey Laboratories. The procedures used by laboratories in both agencies are as specified in the latest edition of "Standard Methods for the Examination of Water and Wastewater".

Prior to submittal to the laboratory, electrical conductivity (EC) is determined in the field. The results of these determinations are compared with historical analyses of that well to specify the extent of laboratory analysis required. If the electrical conductivity determination is within 10 percent of the previous year's value, only a partial analysis is requested; if greater than 10 percent, other factors are considered in determining the type of analysis to be requested. Generally this would be a standard analysis which consists of the majority of the common constituents.

The maps indicating "Nitrate Concentrations in the San Joaquin Valley" and "Boron Concentrations in the San Joaquin Valley" were prepared from all pertinent data available in the files and are a composite of all the aquifer systems. These maps represent data collected over an extended time because sufficient data were not available from any one year to prepare the maps.

Accuracy

The accuracy of the published analyses meets the standards specified in the latest edition of "Standard Methods for the Examination of Water and Waste Water".

The ground water quality maps, Plates 11 and 12, were based on values representing the following criteria. The values used must be substantiated by previous analyses from the same well. More than one well in the same area must indicate approximately the same value before these values may be used. The distances between points contoured is dependent on the difference between the values. The greater the difference between the values, the closer the points must be. In general, most contours are based on values not more than three miles apart. In these cases a knowledge of the hydrology and geology of the area is utilized in justifying the contours.

Coding

Explanation of Headings and Symbols Used in Columns in Appendix E. STATE WELL NUMBER used in this report is the same as used for water level measurements and is explained on page

AGENCY SUPPLYING DATA is the agency that collected the water sample and is represented by the following code:

Agency Code	Agency
5000	U. S. Geological Survey
5001	U. S. Bureau of Reclamation
5050	Department of Water Resources
5060	Department of Public Health
5521	Modesto Irrigation District
5640	Buena Vista Water Storage District
5641	Central California Irrigation District
5702	Individual Owner
5703	Valley Waste Disposal Company

Data

Table E-2 lists mineral analyses of selected wells throughout the San Joaquin District.

Table E-3 lists trace element analyses.

Water samples were analyzed to determine the concentration of those miscellaneous constituents which are not part of a standard analysis. These constituents are listed in Table E-4. Some water samples are analyzed to determine the concentration of Alkyl-Benzene-Sulfonate (ABS), where such concentrations may indicate degradation of a water supply resulting from domestic waste water disposal. Other water samples are analyzed to determine the concentration of iodine which may be an indicator of saline connate water. The validity of this assumption, however, has not been determined. Analyses were also made to determine if concentrations of pesticides and phosphates indicated degradation of the water from waste water discharges.

Plate 10 shows the locations of the wells sampled and also indicates the type of analysis made.

Plate 11 is a map showing boron concentrations in the San Joaquin Valley. This map was prepared to indicate the relative concentrations of this constituent throughout the valley because of its significance to agriculture. The values are generally the higher values found in a given area. Better waters may be found in a different aquifer. There are not sufficient data presently available, however, to separate the values by aquifer.

Plate 12 is a map showing nitrate concentrations in the San Joaquin Valley. This map was published in Bulletin No. 130-64 and is repeated with the addition of the 1965 data so as to show the apparent trend of this constituent. A new base map was utilized for this plate and minor changes were made on the original map as a consequence.

TABLE E-1

WELLS INDICATING SIGNIFICANT DEVIATION IN QUALITY FROM SURROUNDING AREA

STATE WELL NUMBER WELL USE	DEVIATION	STATUS
4S/7E-27M1-M Irrigation	NO_3 a/ = 44 mg/l	High nitrates in area. Cause being investigated.
4S/9E-22C1-M Drainage	NO_3 = 28 mg/l in 1965. NO_3 = 60 mg/l in 1964 ABS c/ = 0.3 in 1965 ABS = 4.6 mg/l in 1964	Nitrates in area over 100 mg/l. Office report to be published in 1966. Cause appears to be Ceres Sewage Treatment Plant.
5S/7E-35G1-M	NO_3 = 89 mg/l	Cause being investigated.
5S/10E-4F1-M Drainage	NO_3 = 40 mg/l	Cause being investigated.
5S/11E-7P1-M Drainage	NO_3 = 48 mg/l	Cause being investigated.
5S/13E-36F1-M Domestic	NO_3 = 48 mg/l	Cause being investigated.
6S/11E-3B1-M Drainage	NO_3 = 66 mg/l	Cause being investigated.
6S/12E-6L1-M Drainage	NO_3 = 58 mg/l	Cause being investigated.
6S/12E-8D1-M Domestic	EC d/ = 125 mu e/	Depth 120. EC varies with depth. Condition being investigated.
6S/12E-8D2-M Domestic	EC = 423 mu	Depth 60. EC varies with depth. Condition being investigated.
7S/8E-4H1-M Domestic	NO_3 = 43 mg/l	Cause being investigated.
7S/10E-7D1-M Domestic	EC = 996 mu in 1965 EC = 482 mu in 1961	Cause being investigated.

a/ NO_3 = Nitrate
b/ mg/l = milligram per liter
c/ ABS = alkyl benzene sulfonate (detergent surfactant)
d/ EC = Electrical Conductivity in micromhos at 25°C
e/ mu = Micromhos
f/ ng/l = nanogram per liter
g/ F = Fluoride

TABLE E-1

WELLS INDICATING SIGNIFICANT DEVIATION IN QUALITY FROM SURROUNDING AREA

STATE WELL NUMBER WELL USE	DEVIATION	STATUS
7S/12E-8E1-M Irrigation	NO_3 = 40 mg/l	Cause being investigated. Previously noted as above normal EC for area.
7S/15E-30E1-M Irrigation	NO_3 = 39 mg/l EC = 721 mu	Cause not determined Further investigation including NO_3 underway.
9S/16E-31F1-M City Well	NO_3 = 38 mg/l	Cause being investigated.
9S/18E-20A1-M Domestic	NO_3 = 41 mg/l	Cause being investigated.
10S/15E-31A1-M Irrigation	EC increasing from 353 mu in 1957 to 723 mu in 1965	Cause being investigated.
10S/18E-8J1-M	NO_3 = 41 mg/l	Cause being investigated.
11S/10E-23K1-M Irrigation	NO_3 = 94 mg/l in 1964.	Cause being investigated.
11S/14E-5B1-M Irrigation	EC increasing from 267 mu in 1958 to 778 mu in 1966.	Cause being investigated.
12S/15E-4F1-M Irrigation	EC increasing from 353 mu in 1957 to 723 mu in 1965	Leaching practices to reclaim the land brought about the EC increases.
12S/19E-13A1-M	3 ng/l f/ DDT pesticide	An investigation of the area was conducted and the results sent to the Regional Water Quality Control Board. Cause appears to be from irrigation return waters being injected into the ground water through return wells.

TABLE E-1

WELLS INDICATING SIGNIFICANT DEVIATION IN QUALITY FROM SURROUNDING AREA

STATE WELL NUMBER WELL USE	DEVIATION	STATUS
13S/15E-6D1-M	F[g/] = 0.9 mg/l	Areal extent being investigated.
13S/19E-24Q1-M Irrigation	NO_3 = 47 mg/l in 1963	Well was destroyed in 1964. Wells in vicinity do not have high nitrates.
17S/23E-8J2-M Domestic	NO_3 = 75 mg/l in 1965	NO_3 concentrations in immediate area found to be as high as 193 mg/l. No cause determined. Further investigation underway.
18S/26E-10M1-M Irrigation	High NO_3	Office report on this investigation to be made available in 1966.
18S/26E-36C1-M Domestic and Irrigation	High NO_3	Office report on this investigation to be made available in 1967.
18S/27E-10C2-M Domestic	High NO_3	Part of above investigation
21S/27E-27F1-M Industrial	High ABS and NO_3	Office report on investigation available.
24S/22E-35N1-M Irrigation and Stock	Arsenic = 0.25 mg/l	Cause and areal extent being investigated.
28S/25E-4F1-M Irrigation	NO_3 = 81 mg/l	Cause being investigated.
28S/25E-4P2-M Domestic	NO_3 = 47 mg/l	Cause being investigated.
28S/25E-9E2-M Domestic	NO_3 = 77 mg/l	Cause being investigated.

TABLE E-1

WELLS INDICATING SIGNIFICANT DEVIATION IN QUALITY FROM SURROUNDING AREA

STATE WELL NUMBER WELL USE	DEVIATION	STATUS
28S/25E-24P1-M Domestic and Irrigation	NO_3 = 54 mg/l	Cause being investigated.
29S/29E-34N1-M Industrial Irrigation Domestic	Arsenic = 0.22 mg/l	Cause and areal extent being investigated.
30S/28E-10N1-M Test Well	NO_3 = 43 mg/l	This well is near the Bakersfield Sewage Treatment Plant ponds. An investigation at the area is being conducted to determine the effect of the plant's discharge on the ground water.
32S/29E-35M1-M Irrigation	High NO_3	An office report on this investigation is available.

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER / DATE / TIME	LAB / SAMPLER	TEMP	LAB-PH / FLD-PH	LAB-EC / FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
01S/10E-24N01 M 06/25/65 0830	5050	--	8.5	222	17 .85	8.9 .73	14 .61	--	4.0 .13	94 1.54	--	9.4 .27	--	--	--	--	--	79 0
02S/07E-36P01 M 12/24/64 0900	5050 5050	60.0F	8.7	309	--	--	--	--	10 .33	133 2.18	--	4.9 .14	--	--	--	--	--	127 2
02S/07E-36F01 M 02/02/65 1120	5050 5050	52.0F	8.6	404	--	--	--	--	12 .40	166 2.72	--	9.7 .27	--	--	--	--	--	180 24
02S/08E-31B01 M 02/02/65 1200	5050 5050	--	8.7	338	--	--	--	--	29 .97	368 6.04	--	34 .96	--	--	--	--	--	267 0
02S/11E-02N01 M 06/25/65 1000	5050 5050	--	8.6	240 244	23 1.15 44	12 .99 28	9.2 .40 15	3.5 .09 3	5.0 .17 7	121 1.98 77	3.6 .07 3	4.6 .13 5	14 .23 9	--	.0	--	166 134	105 0
02S/11E-04K01 M 02/03/65 1620	5050 5050	--	8.6	320	--	--	--	--	8.0 .27	133 2.18	--	11 .31	--	--	--	--	--	136 14
02S/11E-21C01 M 02/04/65 0945	5050 5050	--	8.3	208	--	--	--	--	0.0 .00	97 1.59	--	9.6 .27	--	--	--	--	--	69 0
02S/11E-21F01 M 02/04/65 1250	5050 5050	--	8.6	429	--	--	--	--	12 .40	142 2.33	--	27 .76	--	--	--	--	--	118 0
02S/12E-30K01 M 02/05/65 1200	5050 5050	--	8.5	252	--	--	--	--	6.0 .20	90 1.48	--	15 .42	--	--	--	--	--	94 10
03S/07E-24M02 M 12/22/64 1100	5050 5050	67.0F	8.3	598	--	--	--	--	0.0 .00	285 4.67	--	39 1.10	--	--	--	--	--	210 0
03S/07E-25N01 M 12/22/64 0900	5050 5050	54.0F	8.1	1920	--	--	--	--	0.0 .00	267 4.38	--	203 5.72	--	--	--	--	--	469 250
03S/07E-25N01 M 02/04/65 1500	5050 5050	53.0F	8.4	2170	--	--	--	--	17 .57	284 4.66	--	262 7.39	--	--	--	--	--	580 319
03S/08E-09P01 M 05/19/65 1345	5050 5050	66.0F	8.3	784	--	--	59 2.57	--	0.0 .00	408 6.69	--	31 .87	--	--	.0	--	--	--

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
03S/09E-29D02 M		--	8.0	431	40	13	25	3.6	0.0	190	7.7	19	22	0.1	.0	--	273	154
05/19/65	5050				2.00	1.07	1.09	.09	.00	3.12	.16	.54	.35				224	0
1045	5050				47	25	26	2		75	4	13	8					
03S/09E-29L03 M		--	8.2	501	44	10	36	4.6	0.0	116	0.8	94	6.2	--	.1	--	376	153
07/13/65	5050			500	2.20	.82	1.57	.12	.00	1.90	.02	2.65	.10				253	58
1230	5050				47	17	33	3		41		57	2					
03S/10E-26E01 M		--	8.1	328	--	--	26	--	0.0	138	--	20	--	--	.1	--	--	--
05/17/65	5050						1.13		.00	2.26		.56						
1535	5050																	
03S/11E-28E01 M		--	8.3	261	--	--	--	--	0.0	108	--	5.2	--	--	--	--	--	108
02/11/65	5050								.00	1.77		.15						20
1350	5050																	
03S/12E-05C01 M		--	8.0	246	--	--	22	--	0.0	140	--	8.3	--	--	.0	--	--	--
05/18/65	5050						.96		.00	2.30		.23						
0930	5050																	
03S/12E-13F01 M		--	8.2	255	--	--	20	--	0.0	115	--	15	--	--	.0	--	--	--
05/18/65	5050						.87		.00	1.89		.42						
1100	5050																	
03S/12E-20N01 M		--	8.0	67	6.2	2.6	2.4	2.0	0.0	38	0.0	1.0	0.8	--	.0	--	45	26
07/13/65	5050			70	.31	.21	.10	.05	.00	.62	.00	.03	.01				34	0
1400	5050				46	31	15	7		94		5	2					
03S/12E-26J01 M		--	8.5	226	16	7.8	17	3.8	3.0	91	2.8	11	14	--	.0	--	194	72
07/13/65	5050			230	.80	.64	.74	.10	.10	1.49	.06	.31	.23				120	0
1500	5050				35	28	32	4	5	68	3	14	11					
03S/12E-27P01 M		--	8.3	122	--	--	13	--	0.0	76	--	1.4	--	--	.0	--	--	--
05/18/65	5050						.57		.00	1.25		.04						
1300	5050									1								
03S/12E-35C01 M		73.0F	8.2	4340	--	--	--	--	0.0	85	--	1600	--	--	--	--	--	978
02/11/65	5050								.00	1.39		45.12						909
1500	5050											1						
03S/12E-36M01 M		--	8.3	241	--	--	22	--	0.0	96	--	21	--	--	.0	--	--	--
05/18/65	5050						.96		.00	1.57		.59						
1315	5050																	
03S/13E-25L01 M		--	7.9	558	--	--	57	--	0.0	80	--	120	--	--	.0	--	--	--
05/18/65	5050						2.48		.00	1.31		3.38						
1400	5050																	
03S/13E-29N01 M		--	--	5940	--	--	770	--	--	--	--	1860	--	--	--	--	--	--
05/18/65	5050						33.50					52.45						

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
03S/13E-31LC1 M 05/18/65 1630	5050 5050	--	8.1	97	--	--	15 .65	--	0.0 .00	56 .92	--	3.1 .09	--	--	.0	--	--	--
03S/13E-33B01 M 05/18/65 1130	5050 5050	--	7.2	265	--	--	20 .87	--	0.0 .00	159 2.61	--	2.4 .07	--	--	.0	--	--	--
03S/14E-18BC1 M 06/09/65 1200	5050 5050	--	8.0	156	11 .55 36	5.7 .47 31	11 .48 32	0.9 .02 1	0.0 .00	53 .87 58	13 .27 18	6.2 .17 11	11 .18 12	--	.0	--	120 85	51 8
04S/05E-14D02 M 03/00/65	5050	--	8.2	940	12 .60 6	7.0 .58 6	194 3.44 87	3.7 .09 1	0.0 .00	299 4.90 51	48 1.00 10	129 3.64 38	0.0 .00	0.2	.2	--	-- 541	59 0
04S/06E-07F01 M 03/00/65	5050	--	7.9	1110	69 3.44 26	74 6.08 45	90 3.92 29	0.4 .01	0.0 .00	639 10.48 79	35 .73 6	53 1.49 11	33 .53 4	0.2	2.0	--	-- 670	478 0
04S/06E-07F02 M 03/00/65	5050	--	8.2	3750	80 3.99 10	44 3.62 9	760 33.06 81	5.0 .13	0.0 .00	505 8.28 20	240 4.99 12	975 27.50 67	0.0 .00	0.4	2.0	--	2334 2354	380 0
04S/06E-11M01 M 06/10/65 0815	5050 5050	--	8.1	1030 1019	82 4.09	28 2.35	80 3.44	--	0.0 .00	165 2.71	--	141 3.98	23 .37	--	--	--	--	322 187
04S/07E-18A01 M 06/10/65 1040	5050 5050	--	8.2	1740 1680	94 4.69	53 4.41	186 8.09	--	0.0 .00	238 3.90	--	298 8.40	34 .55	--	--	--	--	455 260
04S/07E-22E01 M 06/22/65 1010	5050 5050	68.0F	8.4	1380 1240	57 2.84	81 6.73	104 4.52	--	8.0 .27	217 3.56	--	174 4.91	25 .40	--	--	--	--	479 288
04S/07E-27M01 M 06/22/65 1040	5050 5050	67.0F	8.4	1540 1395	62 3.09	105 8.70	97 4.22	--	5.0 .17	242 3.97	--	222 6.26	44 .71	--	--	--	--	590 383
04S/07E-34D01 M 06/22/65 1200	5050 5050	68.0F	8.5	1370 1255	54 2.69	94 7.80	87 3.78	--	9.0 .30	232 3.80	--	183 5.16	38 .61	--	--	--	--	525 320
04S/07E-24K01 M 06/10/65 1115	5050 5050	--	8.1	1280 1180	39 1.95	89 7.37	80 3.48	--	0.0 .00	300 4.92	--	205 5.78	32 .52	--	--	--	--	466 220
04S/07E-35C01 M 06/22/65 1230	5050 5050	67.0F	8.4	1490 1355	44 2.20	100 8.26	114 4.96	--	15 .50	344 5.64	--	225 6.35	28 .45	--	--	--	--	523 216

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
04S/08E-03C01 M 05/20/65 5050 1320 5050	66.0F	8.3	951	--	--	116 5.05	--	0.0 .00	277 4.54	--	142 4.00	--	--	.2	--	--	--
04S/08E-05P01 M 05/20/65 5050 1420 5050	65.0F	8.3	846	--	--	98 4.26	--	0.0 .00	292 4.79	--	108 3.05	--	--	.1	--	--	--
04S/08E-06C01 M 05/20/65 5050 1440 5050	66.0F	8.3	787	--	--	98 4.26	--	0.0 .00	284 4.66	--	91 2.57	--	--	.1	--	--	--
04S/08E-06K01 M 05/20/65 5050 1455 5050	--	8.1	976	--	--	130 5.66	--	0.0 .00	402 6.59	--	92 2.59	--	--	.2	--	--	--
04S/09E-05H01 M 05/19/65 5050 1230 5050	--	8.0	667	42 2.10 34	13 1.07 17	67 2.91 47	4.4 .11 2	0.0 .00	183 3.00 49	5.1 .11 2	100 2.82 46	14 .23 4	0.1	.0	--	386 335	160 10
04S/09E-05J01 M 05/19/65 5050 1300 5050	--	8.1	483	34 1.70 37	12 .99 22	41 1.78 39	4.4 .11 2	0.0 .00	182 2.98 65	11 .23 5	36 1.02 22	21 .34 7	0.2	.0	--	290 249	135 0
04S/09E-15L01 M 08/24/65 5050 5050	--	8.1	510	53 2.64	6.1 .50	--	--	0.0 .00	159 2.61	--	55 1.55	33 .53	--	--	--	--	157 27
04S/09E-15P01 M 08/24/65 5050 5050	--	8.5	686	54 2.69	17 1.46	--	--	9.0 .30	246 4.03	--	48 1.35	45 .72	--	--	--	--	208 0
04S/09E-15Q01 M 08/24/65 5050 5050	--	8.3	526	46 2.30	16 1.34	--	--	0.0 .00	127 2.08	--	19 .54	106 1.71	--	--	--	--	182 78
04S/09E-21C01 M 08/24/65 5050 5050	--	8.6	1080	41 2.05	20 1.67	--	--	14 .47	269 4.41	--	104 2.93	118 1.90	--	--	--	--	186 0
04S/09E-21M01 M 08/24/65 5050 5050	--	8.6	542	41 2.05	12 1.05	--	--	10 .33	183 3.00	--	11 .31	73 1.18	--	--	--	--	155 0
04S/09E-22A02 M 08/24/65 5050 5050	--	8.2	361	33 1.65	12 1.03	--	--	0.0 .00	99 1.62	--	10 .28	68 1.09	--	--	--	--	134 53
04S/09E-22C01 M [illegible]	--	--	593	--	--	--	--	--	--	--	--	28 .45	--	--	--	--	--

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
04S/09E-22C01 M	68.0F	8.3	579	46	16	49	--	0.0	243	--	33	24	--	--	--	--	183
08/19/65 5050				2.30	1.36	2.13		.00	3.99		.93	.39					0
1400 5050																	
04S/09E-22C02 M	--	7.6	606	53	23	--	--	0.0	194	--	23	68	--	--	--	--	227
08/24/65 5050				2.64	1.89			.00	3.18		.65	1.09					68
5050																	
04S/09E-22C03 M	--	8.0	418	30	15	--	--	0.0	122	--	9.6	73	--	--	--	--	139
08/24/65 5050				1.50	1.28			.00	2.00		.27	1.18					39
5050																	
04S/09E-22F01 M	--	8.0	577	56	16	--	--	0.0	246	--	16	55	--	--	--	--	208
08/24/65 5050				2.79	1.36			.00	4.03		.45	.89					7
5050																	
04S/09E-22K01 M	--	8.8	751	42	12	--	--	25	319	--	26	41	--	--	--	--	155
08/24/65 5050				2.10	1.00			.83	5.23		.73	.66					0
5050																	
04S/09E-23F01 M	--	7.9	398	38	13	--	--	0.0	146	--	6.0	51	--	--	--	--	151
08/24/65 5050				1.90	1.12			.00	2.39		.17	.82					32
5050																	
04S/13E-34P01 M	67.0F	8.5	536	33	21	52	2.4	8.0	269	19	11	16	--	.0	--	321	169
06/27/65 5050			450	1.65	1.73	2.26	.06	.27	4.41	.40	.31	.26				294	0
1540 5050				29	30	40	1	5	78	7	5	5					
04S/13E-35N01 M	--	8.0	267	18	9.0	21	2.1	0.0	104	4.4	9.7	38	--	.0	--	202	82
06/22/65 5050			236	.90	.74	.91	.05	.00	1.71	.09	.27	.61				153	0
1800 5050				35	28	35	2		64	3	10	23					
04S/14E-08J01 M	--	8.4	235	--	--	--	--	3.0	81	--	17	--	--	--	--	--	76
02/11/65 5050								.10	1.33		.48						5
1630 5050																	
05S/07E-09H01 M	--	8.5	1520	48	--	167	--	7.0	180	--	247	--	--	--	--	--	--
06/10/65 5050			1420	2.40		7.26		.23	2.95		6.97						
1210 5050																	
05S/07E-15C01 M	--	8.6	934	39	59	64	2.2	12	259	118	84	14	--	.6	--	550	340
06/21/65 5050			841	1.95	4.85	2.78	.06	.40	4.25	2.45	2.37	.23				520	108
1215 5050				20	50	29	1	4	44	25	24	2					
05S/07E-35A01 M	71.0F	7.6	996	48	34	93	--	0.0	203	--	116	13	--	--	--	--	251
06/21/65 5050			868	2.40	2.82	4.05		.00	3.33		3.27	.21					95
1345 5050																	
05S/07E-35G01 M	--	8.6	993	89	37	56	2.0	12	259	33	113	89	--	.1	--	560	376
06/21/65 5050			980	4.44	3.04	2.44	.05	.40	4.25	.69	3.19	1.43				558	144
1330 5050				45	30	24	1	4	43	7	32	14					

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
05S/08E-01R01 M	69.0F	8.5	859	42	9.7	119	--	9.0	230	--	126	11	--	--	--	--	145
06/21/65 5050			782	2.10	.80	5.13		.30	3.77		3.55	.18					0
1420 5050																	
05S/09E-09A01 M	66.0F	8.4	570	44	15	53	--	2.0	284	--	25	12	--	--	--	--	174
06/21/65 5050			550	2.20	1.28	2.31		.07	4.66		.71	.19					0
1430 5050																	
05S/09E-13G01 M	66.0F	8.2	562	40	16	52	--	0.0	268	--	28	18	--	--	--	--	168
06/21/65 5050			550	2.00	1.36	2.26		.00	4.40		.79	.29					0
1500 5050																	
05S/10E-04F01 M	67.0F	8.3	466	46	17	46	--	0.0	250	--	20	40	--	--	--	--	186
06/21/65 5050			450	2.30	1.42	2.00		.00	4.10		.56	.64					0
1530 5050																	
05S/10E-23E01 M	71.0F	8.1	554	39	15	43	--	0.0	169	--	49	34	--	--	--	--	161
06/22/65 5050			550	1.95	1.27	1.87		.00	2.77		1.38	.55					23
0810 5050																	
05S/10E-25R01 M	66.0F	8.3	468	46	16	24	2.1	0.0	216	18	14	30	--	.0	--	316	182
06/22/65 5050			418	2.30	1.32	1.04	.05	.00	3.54	.37	.39	.48				256	5
0830 5050				49	28	22	1		74	8	8	10					
05S/10E-28H01 M	67.0F	8.5	448	34	11	43	--	8.0	193	--	16	25	--	--	--	--	131
06/21/65 5050			398	1.70	.92	1.87		.27	3.17		.45	.40					0
0900 5050																	
05S/11E-07F01 M	66.0F	8.4	534	50	18	34	--	6.0	225	--	14	48	--	--	--	--	202
06/22/65 5050			480	2.50	1.54	1.48		.20	3.69		.39	.77					8
1010 5050																	
05S/11E-30G01 M	66.0F	8.5	389	30	13	30	2.1	4.0	178	12	6.6	26	--	.0	--	273	128
06/22/65 5050			343	1.50	1.07	1.31	.05	.13	2.92	.25	.19	.42				211	0
1130 5050				38	27	33	1	3	75	6	5	11					
05S/12E-31G01 M	71.0F	8.2	200	19	2.8	19	--	0.0	91	--	5.6	12	--	--	--	--	59
06/22/65 5050			188	.95	.23	.83		.00	1.49		.16	.19					0
1230 5050																	
05S/13E-15L01 M	72.0F	8.1	98	8.2	2.8	6.4	1.9	0.0	46	1.6	1.9	5.8	--	.0	--	78	32
06/22/65 5050			90	.41	.23	.28	.05	.00	.75	.03	.05	.09				51	0
1430 5050				42	24	29	5		82	3	5	10					
05S/13E-16K01 M	--	8.0	131	13	3.5	8.2	2.1	0.0	69	1.5	2.1	4.0	--	.0	--	102	47
07/14/65 5050			130	.65	.29	.36	.05	.00	1.13	.03	.06	.06				68	0
1000 5050				48	21	27	4		88	2	5	5					
05S/13E-36F01 M	--	7.5	296	26	8.3	21	1.9	0.0	111	1.2	10	48	--	.0	--	234	99
[illegible] 5050			200	.30	.68	.91	.05	.00	1.82	.02	.28	.77				171	8
1030 5050																	

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
05S/14E-03P01 M	--	7.4	159	16	5.6	5.0	1.0	0.0	81	6.6	5.2	0.4	--	.1	--	91	63
06/22/65 5050			154	.80	.46	.22	.03	.00	1.33	.14	.15	.01				80	0
1615 5050				53	30	15	2		82	9	9	1					
06S/08E-05N02 M	--	8.5	1490	81	61	156	2.4	7.0	195	485	71	22	--	.6	--	1140	452
06/23/65 5050			1260	4.04	5.01	6.79	.06	.23	3.20	10.09	2.00	.35				982	281
1230 5050				25	32	43		1	20	64	13	2					
06S/08E-06B02 M	--	8.5	1530	88	69	158	--	9.0	205	--	44	17	--	--	--	--	504
06/23/65 5050			1300	4.39	5.69	6.87		.30	3.36		1.24	.27					321
1300 5050																	
06S/08E-26E01 M	--	8.8	863	69	32	72	--	19	219	--	34	--	--	--	--	--	306
06/23/65 5050			800	3.44	2.68	3.13		.63	3.59		.96						95
1330 5050																	
06S/10E-09B01 M	65.0F	8.4	699	53	15	79	--	6.0	312	--	35	29	--	--	--	--	198
06/24/65 5050			617	2.64	1.31	3.44		.20	5.12		.99	.47					0
0830 5050																	
06S/10E-14H01 M	67.0F	8.3	514	26	8.0	63	3.5	0.0	195	7.1	41	10	--	.0	--	300	98
06/24/65 5050			436	1.30	.66	2.74	.09	.00	3.20	.15	1.16	.16				254	0
0900 5050				27	14	57	2		69	3	25	3					
06S/10E-24L01 M	60.0F	8.6	429	25	7.2	53	2.4	8.0	159	33	17	8.1	--	.0	--	264	92
06/24/65 5050			372	1.25	.59	2.31	.06	.27	2.61	.69	.48	.13				232	0
1000 5050				30	14	55	1	6	62	17	11	3					
06S/10E-28K01 M	67.0F	8.3	709	33	9.1	106	--	0.0	290	--	58	12	--	--	--	--	120
06/24/65 5050			630	1.65	.75	4.61		.00	4.76		1.64	.19					0
1030 5050																	
06S/11E-03B01 M	67.0F	8.5	648	52	15	60	--	8.0	192	--	26	66	--	--	--	--	194
06/24/65 5050			572	2.59	1.28	2.61		.27	3.15		.73	1.06					23
1230 5050																	
06S/11E-06K01 M	70.0F	8.3	336	26	7.5	27	4.7	0.0	135	6.1	18	19	--	.0	--	258	96
06/24/65 5050			290	1.30	.62	1.17	.12	.00	2.21	.13	.51	.31				174	0
1315 5050				40	19	36	4		70	4	16	10					
06S/11E-07E01 M	67.0F	8.3	163	13	3.0	15	2.4	0.0	68	7.6	5.2	10	--	.0	--	140	45
07/13/65 5050			165	.65	.25	.65	.06	.00	1.12	.16	.15	.16				90	0
5050				40	16	40	4		70	10	9	10					
06S/11E-18E01 M	66.0F	8.2	442	28	8.0	50	2.7	0.0	175	20	19	27	--	.0	--	278	103
06/23/65 5050			385	1.40	.66	2.18	.07	.00	2.87	.42	.54	.43				240	0
1115 5050				32	15	51	2		67	10	13	10					
06S/11E-27K01 M	68.0F	8.2	215	17	4.2	19	--	0.0	90	--	4.1	14	--	--	--	--	60
07/14/65 5050			220	.85	.35	.83		.00	1.48		.12	.23					0
1500 5050																	

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
06S/11E-36P01	M	67.0F	8.2	263	22	7.5	22	--	0.0	124	--	5.8	16	--	--	--	--	86
06/23/65	5050			247	1.10	.62	.96		.00	2.03		.16	.26					0
1300	5050																	
06S/12E-06L01	M	68.0F	8.2	485	43	9.9	37	--	0.0	149	--	19	58	--	--	--	--	148
06/24/65	5050			400	2.15	.81	1.61		.00	2.44		.54	.93					26
0900	5050																	
06S/12E-08D01	M	84.0F	8.3	125	11	0.6	15	--	0.0	60	--	3.6	--	--	--	--	--	30
06/23/65	5050			114	.55	.05	.65		.00	.98		.10						0
1530	5050																	
06S/12E-08D02	M	--	8.4	423	36	8.5	30	--	3.0	89	--	33	--	--	--	--	--	125
06/24/65	5050			350	1.80	.70	1.31		.10	1.46		.93						47
0930	5050																	
06S/12E-21N01	M	68.0F	8.2	218	16	5.3	19	--	0.0	92	--	4.9	14	--	--	--	--	62
06/24/65	5050			216	.80	.44	.83		.00	1.51		.14	.23					0
1000	5050																	
06S/12E-23H01	M	66.0F	8.1	162	16	5.8	6.2	0.9	0.0	48	17	2.5	20	--	.0	--	128	64
07/15/65	5050			160	.80	.48	.27	.02	.00	.79	.35	.07	.32				92	25
0800	5050				51	31	17	1		52	23	5	21					
06S/13E-32N01	M	68.0F	8.4	246	18	5.1	21	6.6	2.0	89	6.9	11	23	--	.0	--	179	66
06/24/65	5050			210	.90	.42	.91	.17	.07	1.46	.14	.31	.37				137	0
1500	5050				38	18	38	7	3	62	6	13	16					
06S/13E-32N02	M	68.0F	8.3	247	20	3.9	21	3.0	0.0	96	7.1	11	22	--	.0	--	188	66
06/24/65	5050			220	1.00	.32	.91	.20	.00	1.57	.15	.31	.35				140	0
1500	5050				41	13	37	8		66	6	13	15					
06S/13E-32P01	M	68.0F	8.2	241	20	4.4	19	7.6	0.0	98	6.9	8.8	20	--	.0	--	137	68
06/24/65	5050			210	1.00	.36	.83	.19	.00	1.61	.14	.25	.32				135	0
1500	5050				42	15	35	8		69	6	11	14					
06S/14E-29E01	M	--	8.3	256	15	5.4	21	--	0.0	88	--	8.0	--	--	--	--	--	60
07/15/65	5050			220	.75	.45	.91		.00	1.44		.23						0
0900	5050																	
06S/14E-32D01	M	--	7.8	335	20	8.2	31	--	0.0	81	--	32	--	--	--	--	--	84
07/15/65	5050			310	1.00	.68	1.35		.00	1.33		.90						18
0945	5050																	
07S/08E-04H01	M	--	8.7	852	80	43	48	2.6	18	205	182	38	43	--	.2	--	579	378
07/14/65	5050			860	3.99	3.53	2.09	.07	.60	3.36	3.79	1.07	.69				555	180
1115	5051				41	36	22	1	6	35	40	11	7					
07S/08E-12P01	M	67.0F	8.3	880	38	48	72	--	0.0	186	--	96	26	--	--	--	--	294
07/14/65	5050			1070	.90	3.98	3.13		.00	3.05		2.71	.42					142
1145	5050																	

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
07S/08E-13F01 M		66.0F	8.4	954	32	43	106	2.9	3.0	212	118	123	19	--	.4	--	574	259
07/14/65	S050			1150	1.60	3.53	4.61	.07	.10	3.48	2.45	3.47	.31				551	80
1330	S050				16	36	47	1	1	35	25	35	3					
07S/08E-14F01 M		66.0F	8.3	1220	58	62	97	3.2	0.0	201	127	206	38	--	.3	--	774	402
07/14/65	S050			1480	2.89	5.10	4.22	.08	.00	3.30	2.64	5.81	.61				690	237
1400	S050				24	41	34	1		27	21	47	5					
07S/08E-23R01 M		67.0F	8.2	1370	57	49	139	--	0.0	155	--	269	--	--	--	--	--	345
07/14/65	S050			1410	2.84	4.05	6.05		.00	2.54		7.59						218
1415	S050																	
07S/09E-03J01 M		--	8.6	298	17	6.2	40	1.6	6.0	136	13	16	0.7	--	.1	--	189	68
07/14/65	S050			305	.85	.51	1.74	.04	.20	2.23	.27	.45	.01				167	0
1515	S050				27	16	55	1	6	71	9	14						
07S/09E-32G01 M		68.0F	8.2	980	68	39	92	1.7	0.0	230	232	69	14	--	.5	--	665	332
07/15/65	S050			1040	3.39	3.21	4.00	.04	.00	3.77	4.83	1.95	.23				629	144
0945	S050				32	30	38			35	45	18	2					
07S/09E-32L01 M		67.0F	8.4	926	67	34	77	2.0	4.0	226	152	82	17	--	.4	--	569	308
07/15/65	S050			950	3.34	2.79	3.35	.05	.13	3.71	3.16	2.31	.27				546	116
1000	S050				35	29	35	1	1	39	33	24	3					
07S/10E-07C01 M		72.0F	7.8	996	75	28	88	6.1	0.0	385	58	92	4.8	--	.1	--	560	302
07/13/65	S050			960	3.74	2.30	3.83	.16	.00	6.31	1.21	2.59	.08				541	0
1200	S050				37	23	38	2		62	12	25	1					
07S/10E-08J01 M		71.0F	8.2	824	26	6.1	154	3.5	0.0	443	28	29	2.2	--	.2	--	493	90
07/13/65	S050			800	1.30	.50	6.70	.09	.00	7.27	.58	.82	.04				466	0
1530	S050				15	6	78	1		83	7	9						
07S/10E-23D01 M		66.0F	8.7	1360	16	5.8	273	4.9	18	320	41	231	1.8	--	.2	--	764	64
07/14/65	S050			1470	.80	.48	11.88	.13	.60	5.25	.85	6.51	.03				749	0
0900	S050				6	4	89	1	5	40	6	49						
07S/10E-24E01 M		68.0F	8.4	815	39	13	133	3.4	7.0	451	27	21	2.9	--	.1	--	512	152
07/14/65	S050			770	1.95	1.07	5.79	.09	.23	7.40	.56	.59	.05				467	0
1040	S050				22	12	65	1	3	84	6	7	1					
07S/11E-04N01 M		69.0F	8.8	500	23	9.8	64	6.7	13	203	16	20	15	--	.1	--	322	98
07/14/65	S050			495	1.15	.81	2.78	.17	.43	3.33	.33	.56	.24				257	0
1330	S050				23	16	57	3	9	68	7	11	5					
07S/11E-05A01 M		74.0F	8.6	271	13	2.8	34	4.8	6.0	111	5.4	5.0	15	--	.0	--	209	44
07/14/65	S050			250	.65	.23	1.48	.12	.20	1.82	.11	.14	.24				140	0
1415	S050				26	9	60	5	8	73	4	6	10					
07S/11E-14G01 M		66.0F	7.9	462	39	11	48	--	0.0	238	--	12	29	--	--	--	--	144
07/14/65	S050			470	1.95	.93	2.09		.00	3.90		.34	.47					0
1300	S050																	

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
07S/12E-C2F01	M	69.0F	8.1	236	20	6.1	17	--	0.0	72	--	6.2	29	--	--	--	--	75
07/15/65	5050			235	1.00	.50	.74		.00	1.18		.17	.47					16
1245	5050																	
07S/12E-C8E01	M	68.0F	8.5	437	43	14	31	--	9.0	182	--	13	40	--	--	--	--	165
07/15/65	5050			440	2.15	1.15	1.35		.30	2.98		.37	.64					1
1300	5050																	
07S/12E-19A01	M	66.0F	8.5	296	27	7.2	20	--	7.0	124	--	5.4	--	--	--	--	--	97
07/15/65	5050			275	1.35	.59	.87		.23	2.03		.15						0
1330	5050																	
07S/12E-22H01	M	68.0F	8.8	438	42	16	24	3.6	18	196	8.6	7.5	12	--	.0	--	263	170
07/15/65	5050			415	2.10	1.32	1.04	.09	.60	3.21	.18	.21	.19				228	0
1400	5050				46	29	23	2	14	73	4	5	4					
07S/13E-C4F01	M	68.0F	8.6	334	28	9.5	23	--	4.0	136	--	9.9	21	--	--	--	--	109
07/15/65	5050			310	1.40	.78	1.00		.13	2.23		.28	.34					0
1430	5050																	
07S/13E-22C01	M	66.0F	8.7	417	39	15	22	--	12	196	--	10	14	--	--	--	--	163
07/15/65	5050			400	1.95	1.31	.96		.40	3.21		.28	.23					0
1030	5050																	
07S/14E-C5R01	M	67.0F	8.6	282	21	9.6	18	2.8	5.0	126	2.0	9.4	5.9	--	.0	--	203	92
07/15/65	5050			450	1.05	.79	.78	.07	.17	2.07	.04	.27	.09				135	0
1300	5050				39	29	29	3	6	78	2	10	3					
07S/14E-28A02	M	67.0F	8.7	427	27	19	35	3.2	13	224	3.6	6.0	3.6	--	.0	--	254	144
07/15/65	5050			460	1.35	1.56	1.52	.08	.43	3.67	.07	.17	.06				220	0
1400	5050				30	35	34	2	10	83	2	4	1					
07S/14E-31M01	M	67.0F	8.6	503	21	24	48	--	8.0	227	--	18	--	--	--	--	--	152
07/15/65	5050			660	1.05	1.99	2.09		.27	3.72		.51						0
1430	5050																	
07S/15E-18K01	M	70.0F	8.6	300	23	10	17	--	8.0	125	--	7.9	--	--	--	--	--	102
07/15/65	5050			280	1.15	.89	.74		.27	2.05		.22						0
1530	5050																	
07S/15E-30E01	M	66.0F	8.4	721	35	34	58	--	2.0	238	--	13	39	--	--	--	--	230
07/15/65	5050			860	1.75	2.85	2.52		.07	3.90		.37	.63					32
1545	5050																	
07S/16E-C5H01	M	--	7.8	573	24	8.2	77	--	0.0	132	--	73	--	--	--	--	--	94
07/16/65	5050			550	1.20	.68	3.35		.00	2.16		2.06						0
0900	5050																	
08S/09E-C2F01	M	68.0F	8.6	986	77	30	90	--	8.0	146	--	76	13	--	--	--	--	318
08/09/65	5050			910	3.84	2.52	3.92		.27	2.39		2.14	.21					185

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
08S/09E-05A01 M	67.0F	8.1	978	58	40	88	1.9	0.0	247	163	91	11	--	.4	--	577	308
08/10/65 5050			1000	2.89	3.29	3.83	.05	.00	4.05	3.39	2.57	.18				574	106
1100 5050				29	33	38			40	33	25	2					
08S/09E-11H01 M	--	8.5	2330	80	40	357	5.0	12	134	542	334	2.3	--	2.6	--	1520	364
08/10/65 5050			2050	3.99	3.29	15.53	.13	.40	2.20	11.27	9.42	.04				1441	234
0930 5050				17	14	68	1	2	9	48	40						
08S/09E-30N01 M	67.0F	8.2	1200	60	57	106	2.3	0.0	304	162	128	22	--	.6	--	708	384
08/10/65 5050			1140	2.99	4.69	4.61	.06	.00	4.99	3.37	3.61	.35				687	135
1230 5050				24	38	37			41	27	29	3					
08S/09E-32D01 M	65.0F	8.3	1100	44	48	118	1.7	0.0	335	104	114	27	--	.8	--	626	307
08/10/65 5050			1060	2.20	3.95	5.13	.04	.00	5.49	2.16	3.21	.43				622	33
1315 5050				19	35	45			49	19	28	4					
08S/10E-20A01 M	68.0F	8.4	7460	156	141	1350	--	6.0	228	--	1630	--	--	--	--	--	973
07/15/65 5050			7000	7.78	11.67	58.73		.20	3.74		45.97						777
1230 5050																	
08S/10E-21C02 M	68.0F	8.3	3180	96	83	441	5.2	0.0	306	349	670	5.0	--	.6	--	1910	582
07/15/65 5050			3000	4.79	6.82	19.18	.13	.00	5.02	7.26	18.89	.08				1800	331
1200 5050				15	22	62			16	23	60						
08S/11E-03J01 M	68.0F	8.5	610	18	10	98	3.0	6.0	240	24	51	5.8	--	.2	--	420	88
07/15/65 5050			730	.90	.82	4.26	.08	.20	3.94	.50	1.44	.09				334	0
1615 5050				15	14	70	1	3	64	8	23	1					
08S/12E-01H01 M	67.0F	8.4	455	43	19	24	2.7	4.0	225	19	17	4.4	--	.0	--	286	186
08/10/65 5050			500	2.15	1.56	1.04	.07	.13	3.69	.40	.48	.07				243	0
1345 5050				45	32	22	1	3	77	8	10	1					
08S/12E-15C01 M	67.0F	8.5	313	16	3.2	53	1.5	9.0	162	8.7	7.8	0.6	--	.0	--	195	53
08/11/65 5050			337	.80	.26	2.31	.04	.30	2.66	.18	.22	.01				179	0
0930 5050				23	8	68	1	9	79	5	7						
08S/13E-16H01 M	75.0F	8.7	575	49	26	44	0.9	23	299	12	19	2.0	--	.0	--	334	228
08/11/65 5050			570	2.45	2.14	1.91	.02	.77	4.90	.25	.54	.03				322	0
1030 5050				38	33	29		12	76	4	8						
08S/13E-20F01 M	75.0F	8.6	301	17	3.3	48	--	51	153	--	5.9	2.3	--	--	--	--	56
08/11/65 5050			287	.85	.27	2.09		1.70	2.51		.17	.04					0
1000 5050																	
08S/15E-32P01 M	74.0F	8.0	247	20	6.5	19	--	0.0	117	--	6.5	7.8	--	--	--	--	77
08/11/65 5050			251	1.00	.54	.83		.00	1.92		.18	.13					0
1500 5050																	
08S/15E-35C01 M	72.0F	8.3	352	31	12	25	1.7	0.0	172	7.4	16	10	--	.0	--	228	127
08/11/65 5050			348	1.55	.99	1.09	.04	.00	2.82	.15	.45	.16				187	0
1530 5050				42	27	30	1		79	4	13	4					

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
08S/16E-19C01 M 08/11/65 5050 1530 5050	71.0F	8.6	279 260	24 1.20	11 .92	16 .70	--	7.0 .23	129 2.12	--	5.9 .17	5.8 .09	--	--	--	--	106 0
08S/16E-26N01 M 08/12/65 5050 0930 5050	77.0F	8.5	283 277	22 1.10	7.8 .64	25 1.09	--	4.0 .13	124 2.03	--	8.4 .24	6.9 .11	--	--	--	--	87 0
08S/17E-17C01 M 08/12/65 5050 1230 5050	81.0F	8.6	400 390	22 1.10	12 1.04	48 2.09	--	8.0 .27	189 3.10	--	19 .54	4.7 .08	--	--	--	--	107 0
08S/17E-20G01 M 08/12/65 5050 1345 5050	74.0F	8.1	350 337	24 1.20	5.6 .46	37 1.61	--	0.0 .00	90 1.48	--	23 .65	21 .34	--	--	--	--	83 9
09S/09E-17B01 M 09/16/65 5050 1550 5050	71.0F	8.5	963 1000	35 1.75	43 3.59	100 4.35	--	10 .33	243 3.99	--	125 3.53	21 .34	--	--	--	--	267 51
09S/10E-02R01 M 09/14/65 5050 1500 5050	74.0F	8.6	2910 2500	42 2.10 8	62 5.10 19	446 19.40 73	5.8 .15 1	8.0 .27 1	236 3.87 14	416 8.65 32	495 13.96 52	1.7 .03	--	.9	--	1670 1593	360 153
09S/11E-07N01 M 09/14/65 5050 1310 5050	68.0F	8.6	1690 1510	27 1.35	5.0 .41	334 14.53	--	8.0 .27	190 3.12	--	124 3.50	--	--	--	--	--	88 0
09S/11E-16G01 M 09/14/65 5050 1215 5050	67.0F	--	2170 1875	60 2.99	37 3.10	308 13.40	--	--	--	--	473 13.34	1.2 .02	--	--	--	--	305
09S/11E-26N01 M 09/14/65 5050 1130 5050	67.0F	8.5	896 835	27 1.35	11 .91	141 6.13	--	8.0 .27	178 2.92	--	143 4.03	--	--	--	--	--	113 0
09S/12E-01C01 M 09/17/65 5050 5050	70.0F	8.6	394 485	18 .90	26 2.18	--	--	7.0 .23	198 3.25	--	11 .31	--	--	--	--	--	154 0
09S/13E-33C01 M 08/25/65 5050 5050	--	8.3	272 260	18 .90 32	3.6 .30 11	37 1.61 56	1.6 .04 1	0.0 .00	133 2.18 78	3.4 .07 3	19 .54 19	0.6 .01	--	.0	--	207 148	60 0
09S/13E-33P01 M 10/28/64 5050 5000	--	7.9	2470	--	--	--	--	0.0 .00	42 .69	--	757 21.35	--	--	--	--	--	741 707
09S/14E-20B02 M 09/17/65 5050 5050	69.0F	8.3	600 710	31 1.55	17 1.43	50 2.18	--	0.0 .00	117 1.92	--	101 2.85	12 .19	--	--	--	--	149 53

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENT PER LITER / PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
09S/15E-14J01 M	69.0F	8.0	212	18	5.1	16	1.7	0.0	84	0.0	21	5.7	0.2	.0	71	--	66
07/08/65 5000				.90	.42	.70	.04	.00	1.38	.00	.59	.09				180	0
5000				44	20	34	2		67		29	4					
09S/15E-24F01 M	73.0F	8.5	234	22	4.6	17	--	3.0	85	--	19	7.3	--	--	--	--	74
08/05/65 5050			220	1.10	.38	.74		.10	1.39		.54	.12					0
1110 5050																	
09S/15E-25J02 M	67.2F	8.6	388	31	5.9	37	--	7.0	131	--	36	--	--	--	--	--	102
06/18/65 5050			244	1.55	.49	1.61		.23	2.15		1.02						0
1220 5000																	
09S/15E-29C01 M	74.0F	8.2	667	73	22	33	4.0	0.0	289	8.1	58	18	--	.0	--	413	272
08/12/65 5050			615	3.64	1.81	1.44	.10	.00	4.74	.17	1.64	.29				358	35
1630 5050				52	26	21	1		69	2	24	4					
09S/15E-29G01 M	68.6F	8.3	710	55	23	41	3.9	0.0	256	11	78	23	--	.0	--	372	231
06/02/65 5050			835	2.74	1.89	1.78	.10	.00	4.20	.23	2.20	.37				360	21
1455 5000				42	29	27	2		60	3	31	5					
09S/16E-14M01 M	71.5F	8.5	255	20	5.8	21	4.8	5.0	91	1.0	25	3.3	--	.0	--	198	74
06/03/65 5050			242	1.00	.48	.91	.12	.17	1.49	.02	.71	.05				130	0
1245 5000				40	19	36	5	7	61	1	29	2					
09S/16E-20P02 M	--	8.4	232	21	5.0	19	--	3.0	89	--	20	--	--	--	--	--	73
06/03/65 5050			228	1.05	.41	.83		.10	1.46		.56						0
1220 5000																	
09S/16E-20P02 M	69.0F	8.2	291	29	6.9	23	1.5	0.0	132	4.0	22	5.4	--	.0	--	210	101
08/11/65 5050			294	1.45	.57	1.00	.04	.00	2.16	.08	.62	.09				156	0
5050				47	19	33	1		73	3	21	3					
09S/16E-25P01 M	72.6F	8.4	261	24	3.9	21	--	4.0	91	--	30	--	--	--	--	--	76
06/16/65 5050			247	1.20	.32	.91		.13	1.49		.85						0
1430 5000																	
09S/16E-30B03 M	71.0F	8.4	206	18	3.9	16	--	2.0	79	--	18	3.2	--	--	--	--	61
08/11/65 5050			195	.90	.32	.70		.07	1.30		.51	.05					0
5050																	
09S/16E-30P01 M	75.0F	8.2	259	22	4.8	21	--	0.0	98	--	30	1.2	--	--	--	--	75
08/12/65 5050			250	1.10	.40	.91		.00	1.61		.85	.02					0
1530 5050																	
09S/16E-31F01 M	71.2F	8.6	646	24	25	70	2.0	8.0	201	40	47	38	--	.0	--	367	163
06/03/65 5050			843	1.20	2.06	3.05	.05	.27	3.30	.83	1.33	.61				352	0
1200 5000				19	32	48	1	4	52	13	21	10					
09S/17E-01P01 M	74.0F	8.2	311	30	6.8	24	2.1	0.0	104	13	37	3.0	--	.0	--	218	103
08/13/65 5050			315	1.50	.56	1.04	.05	.00	1.71	.27	1.04	.05				167	18
1120 5050				48	18	33	2		56	9	34	2					

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ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
09S/17E-C7N01 M	71.2F	8.5	358	28	8.8	24	5.0	7.0	104	2.1	43	3.2	--	.1	--	230	106
06/10/65 5050			325	1.40	.72	1.04	.13	.23	1.71	.04	1.21	.05				172	9
1529 5000				43	22	32	4	7	53	1	37	2					
09S/17E-C7N01 M	72.0F	8.3	326	28	8.8	24	4.8	0.0	120	1.0	42	0.6	--	.0	--	254	106
08/13/65 5050			323	1.40	.72	1.04	.12	.00	1.97	.02	1.18	.01				168	8
1000 5050				43	22	32	4		62	1	37						
09S/17E-10H01 M	71.4F	8.6	606	44	11	61	2.1	6.0	178	36	77	0.9	--	.1	--	298	157
06/03/65 5050			554	2.20	.90	2.65	.05	.20	2.92	.75	2.17	.01				325	1
1410 5000				38	16	46	1	3	48	12	36						
09S/17E-10H01 M	--	8.3	583	46	12	60	2.1	0.0	201	20	80	0.6	--	.0	--	364	166
08/13/65 5050			560	2.30	.99	2.61	.05	.00	3.30	.42	2.26	.01				319	1
1145 5050				39	17	44	1		55	7	38						
09S/18E-16G01 M	70.0F	8.2	430	36	17	32	2.1	0.0	228	8.0	24	8.0	0.1	.0	--	--	161
05/28/65 5050				1.80	1.40	1.39	.05	.00	3.74	.17	.68	.13				239	0
1120 5000				39	30	30	1		79	4	14	3					
09S/18E-20A01 M	75.2F	8.7	623	42	21	55	1.9	18	232	22	30	41	--	.0	--	372	190
05/28/65 5050			579	2.10	1.73	2.39	.05	.60	3.80	.46	.85	.66				345	0
1135 5000				33	28	33	1	9	60	7	13	10					
09S/18E-20A01 M	75.0F	8.6	582	42	21	58	2.0	14	252	22	30	29	--	.0	--	399	192
08/13/65 5050			310	2.10	1.73	2.52	.05	.47	4.13	.46	.85	.47				341	0
1210 5050				33	27	39	1	7	65	7	13	7					
09S/18E-22M01 M	71.0F	7.4	478	39	18	31	3.5	0.0	195	23	24	34	0.3	.0	37	--	172
07/08/65 5000				1.95	1.48	1.35	.09	.00	3.20	.48	.68	.55				305	12
1430 5000				40	30	28	2		65	10	14	11					
09S/18E-26E01 M	74.0F	7.8	500	50	16	32	2.7	0.0	209	13	38	37	0.1	.0	--	--	190
05/28/65 5050				2.50	1.32	1.39	.07	.00	3.43	.27	1.07	.60				291	19
1055 5000				47	25	26	1		64	5	20	11					
10S/11E-06N01 M	72.0F	8.3	1930	80	68	220	3.9	0.0	186	418	255	1.7	--	1.7	--	1240	480
09/16/65 5050			1670	3.99	5.59	9.57	.10	.00	3.05	8.69	7.19	.03				1139	328
1030 5050				21	29	50	1		16	46	38						
10S/11E-30G01 M	72.0F	8.0	654	32	20	69	--	0.0	209	--	53	5.2	--	--	--	--	164
09/15/65 5050			580	1.60	1.68	3.00		.00	3.43		1.49	.08					0
1405 5050																	
10S/13E-01A01 M	66.0F	8.1	630	70	9.3	39	--	0.0	251	--	46	--	--	--	--	--	213
06/01/65 5050			621	3.49	.77	1.70		.00	4.12		1.30						7
1445 5000																	
10S/13E-10G01 M	--	7.6	3500	489	85	125	10	0.0	49	10	1301	1.0	0.1	.0	--	2778	1570
11/30/64 5801				24.40	6.99	5.44	.26	.00	.80	.21	36.69	.02				2045	1531
5000				66	19	15	1		2	1	97						

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
10S/13E-11P01 M		66.7F	7.6	720	59	13	52	4.9	0.0	119	13	146	5.8	--	.0	--	482	202
10/23/64	SO50				2.94	1.07	2.26	.13	.00	1.95	.27	4.12	.09				352	105
	SC00				46	17	35	2		30	4	64	1					
10S/13E-15A01 M		--	7.7	4370	--	--	--	--	0.0	93	--	1390	--	--	--	--	--	1590
10/23/64	SO50								.00	1.53		39.20						1515
	SO00																	
10S/13E-15A01 M		64.7F	7.8	5210	483	81	224	12	0.0	42	16	1420	9.0	--	.0	--	2670	1540
06/01/65	SO50			4100	24.10	6.66	9.74	.31	.00	.69	.33	40.04	.14				2266	1507
1300	SC00				59	16	24	1		2	1	97						
10S/13E-15A01 M		70.0F	8.5	4890	596	59	216	14	0.0	176	14	1460	7.9	--	.1	--	1280	1730
09/16/65	SO50			3700	29.74	4.85	9.40	.36	.00	2.89	.29	41.17	.13				2453	1587
	SO50				67	11	21	1		6	1	93						
10S/13E-15C01 M		64.6F	7.6	10400	1170	238	614	19	0.0	46	18	3730	9.8	--	.0	--	6400	3900
06/01/65	SO50			9240	58.38	19.56	26.71	.49	.00	.75	.37	105.19	.16				5821	3866
1115	SO00				56	19	25			1		99						
10S/13E-15C02 M		66.7F	8.5	260	18	0.7	35	1.0	3.0	104	2.6	25	0.2	--	.0	--	155	48
06/01/65	SO50			252	.90	.06	1.52	.03	.10	1.71	.05	.71	.00				136	0
1125	SO00				36	2	61	1	4	67	2	28						
10S/13E-23M01 M		68.4F	8.5	292	22	0.9	34	--	5.0	96	--	27	--	--	--	--	--	59
06/01/65	SO50			276	1.10	.08	1.48		.17	1.57		.76						0
1325	SO00																	
10S/13E-24C01 M		66.6F	8.5	410	25	7.2	42	--	5.0	132	--	38	--	--	--	--	--	92
06/11/65	SO50			500	1.25	.59	1.83		.17	2.16		1.07						0
1322	SO00																	
10S/13E-26K01 M		70.1F	8.5	262	18	1.2	36	--	4.0	93	--	27	--	--	--	--	--	50
06/01/65	SO50			262	.90	.10	1.57		.13	1.53		.76						0
1445	SO00																	
10S/14E-C1RC1 M		66.1F	8.3	517	--	--	--	--	0.0	168	--	56	--	--	--	--	--	161
10/07/64	SO50								.00	2.76		1.58						23
	SO00																	
10S/14E-02001 M		69.2F	8.4	373	30	6.8	25	3.7	1.0	109	7.1	29	20	--	.0	--	215	103
06/02/65	SO50			388	1.50	.56	1.09	.09	.03	1.79	.15	.82	.32				176	12
1430	SO00				46	17	34	3	1	58	5	26	10					
10S/14E-05C02 M		66.2F	8.3	408	32	8.3	34	3.7	0.0	154	4.1	32	18	--	.0	--	269	114
06/18/65	SO50			455	1.60	.68	1.48	.09	.00	2.53	.09	.90	.29				208	0
1600	SO00				42	18	38	2		66	2	24	8					
10S/14E-05C02 M		71.0F	8.3	342	31	1.8	33	3.3	0.0	111	6.2	33	14	--	.1	--	227	85
09/17/65	SO50			435	1.55	.15	1.44	.08	.00	1.82	.13	.93	.23				177	0
	SO50				48	5	45	2		59	4	30	7					

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
10S/14E-11J01 M 10/22/64 5050 5000	--	8.5	331	--	--	--	--	4.0 .13	151 2.48	--	12 .34	--	--	--	--	--	112 0
10S/14E-13A01 M 10/22/64 5050 5000	--	8.3	414	--	--	--	--	0.0 .00	138 2.26	--	43 1.21	--	--	--	--	--	136 23
10S/14E-13A01 M 06/17/65 5050 1400 5000	--	8.4	430 518	34 1.70	13 1.12	25 1.09	--	4.0 .13	131 2.15	--	48 1.35	--	--	--	--	--	141 27
10S/14E-15R01 M 10/07/64 5050 5000	--	8.5	399	--	--	--	--	4.0 .13	121 1.98	--	46 1.30	--	--	--	--	--	95 0
10S/14E-15R01 M 06/01/65 5050 1515 5000	67.9F	8.4	413 465	35 1.75 46	2.8 .23 6	39 1.70 45	3.5 .09 2	3.0 .10 3	123 2.02 54	7.1 .15 4	47 1.33 36	7.9 .13 3	--	.0	--	242 206	99 0
10S/14E-20N01 M 10/07/64 5050 5000	--	8.3	464	--	--	--	--	0.0 .00	139 2.28	--	56 1.58	--	--	--	--	--	119 5
10S/14E-26H01 M 10/13/64 5050 5000	--	8.2	550	--	--	--	--	0.0 .00	114 1.87	--	94 2.65	--	--	--	--	--	173 80
10S/14E-26H01 M 06/16/65 5050 1520 5000	68.6F	8.2	587 600	52 2.59 49	16 1.32 25	29 1.26 24	4.2 .11 2	0.0 .00	126 2.07 39	4.3 .09 2	97 2.74 52	22 .35 7	--	.0	--	382 286	196 93
10S/14E-30H01 M 10/07/64 5050 5000	67.1F	7.9	316	21 1.05 35	5.2 .43 14	33 1.44 48	3.5 .09 3	0.0 .00	133 2.18 74	4.4 .09 3	21 .59 20	6.1 .10 3	--	.0	--	248 159	74 0
10S/14E-31H01 M 11/01/64 5000 5000	68.8F	7.9	1900	137 6.84 39	25 2.06 12	200 8.70 49	4.5 .12 1	0.0 .00	304 4.99 29	43 .89 5	402 11.34 66	4.2 .07	0.4	.2	56	-- 1021	444 195
10S/14E-31H01 M 06/01/65 5050 1545 5000	--	8.5	1680 1580	134 6.69	24 1.99	166 7.22	--	8.0 .27	185 3.03	--	413 11.65	--	--	--	--	--	434 269
10S/14E-33J02 M 10/18/64 5050 5000	68.4F	8.4	372	--	--	--	--	4.0 .13	98 1.61	--	56 1.58	--	--	--	--	--	112 25
10S/14E-33M01 M 10/09/64 5050 5000	68.5F	8.3	899	--	--	--	--	0.0 .00	98 1.61	--	219 6.18	--	--	--	--	--	300 220

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
10S/14E-34E01 M		--	9.5	320	16	0.0	45	3.0	21	2.0	13	63	1.6	--	.0	--	226	40
08/26/65	5050			330	.80	.00	1.96	.08	.70	.03	.27	1.78	.03				164	4
	5050				28		69	3	25	1	10	63	1					
10S/14E-35K01 M		--	8.4	589	--	--	--	--	3.0	105	--	113	--	--	--	--	--	151
10/08/64	5050								.10	1.72		3.19						60
	5000																	
10S/14E-36K01 M		70.0F	8.6	511	44	11	33	3.4	4.0	108	5.8	88	3.3	--	.0	--	320	155
06/11/65	5050			464	2.20	.90	1.44	.09	.13	1.77	.12	2.48	.05				245	60
1510	5000				48	19	31	2	3	39	3	55	1					
10S/15E-01M01 M		68.2F	8.5	347	30	8.3	23	--	6.0	91	--	42	--	--	--	--	--	109
06/03/65	5050			306	1.50	.68	1.00		.20	1.49		1.18						25
1100	5000																	
10S/15E-08J01 M		70.0F	8.5	218	18	4.6	17	2.7	3.0	78	0.0	22	3.0	--	.0	--	187	64
06/11/65	5050			266	.90	.38	.74	.07	.10	1.28	.00	.62	.05				109	0
1055	5000				43	18	35	3	5	62		30	2					
10S/15E-09M02 M		68.4F	8.6	523	46	12	33	4.1	10	97	6.1	93	4.6	--	.1	--	354	164
06/02/65	5050			982	2.30	.99	1.44	.10	.33	1.59	.13	2.62	.07				256	68
1525	5000				48	20	30	2	7	34	3	55	1					
10S/15E-31A01 M		68.0F	8.3	723	54	21	46	--	0.0	167	--	120	--	--	--	--	--	223
06/16/65	5050			780	2.69	1.76	2.00		.00	2.74		3.38						86
1510	5000																	
10S/16E-07A01 M		73.8F	8.9	450	45	15	27	3.6	21	200	5.8	16	14	--	.0	--	274	175
06/10/65	5050			278	2.25	1.23	1.17	.09	.70	3.28	.12	.45	.23				245	0
1015	5000				47	26	25	2	15	69	3	9	5					
10S/16E-14J01 M		72.0F	7.0	232	19	6.0	18	1.6	0.0	82	3.0	18	22	0.1	.0	64	--	72
07/07/65	5000				.95	.49	.78	.04	.00	1.34	.06	.51	.35				192	5
	5000				42	22	35	2		59	3	23	15					
10S/16E-14R01 M		--	8.6	356	--	--	--	--	7.0	118	--	26	--	--	--	--	--	118
12/01/64	5050								.23	1.94		.73						10
	5000																	
10S/16E-30K01 M		75.2F	8.4	352	27	8.9	27	--	5.0	131	--	22	--	--	--	--	--	104
06/03/65	5050			273	1.35	.73	1.17		.17	2.15		.62						0
1015	5000																	
10S/17E-01D01 M		--	8.3	240	19	6.7	16	4.3	0.0	89	3.0	16	23	--	.0	--	184	75
06/03/65	5050			235	.95	.55	.70	.11	.00	1.46	.06	.45	.37				132	2
1435	5000				41	24	30	5		62	3	19	16					
10S/17E-04J01 M		74.4F	8.3	232	20	5.4	19	2.3	0.0	88	3.8	13	24	--	.0	--	199	72
06/03/65	5050			219	1.00	.44	.83	.06	.00	1.44	.08	.37	.39				131	0
1500	5000				43	19	36	3		63	4	16	17					

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
10S/17E-06A01 M		77.6F	8.5	328	24	7.0	24	4.6	6.0	86	5.8	37	5.3	--	.0	--	230	89
06/03/65	5050			300	1.20	.58	1.04	.12	.20	1.41	.12	1.04	.09				156	9
1530	5000				41	20	35	4	7	49	4	36	3					
10S/17E-22C01 M		79.0F	8.4	220	16	4.9	21	2.8	2.0	80	3.4	11	24	--	.0	--	193	60
06/03/65	5050			216	.80	.40	.91	.07	.07	1.31	.07	.31	.39				124	0
1515	5000				37	18	42	3	3	61	3	14	18					
10S/17E-22K01 M		79.8F	8.2	462	27	6.7	58	3.8	0.0	215	0.0	35	0.1	--	.0	--	310	95
05/28/65	5050				1.35	.55	2.52	.10	.00	3.53	.00	.99	.00				236	0
1530	5000				30	12	56	2		78		22						
10S/17E-25N01 M		75.4F	7.9	238	--	--	20	--	0.0	53	--	16	--	--	.0	--	--	--
05/28/65	5050						.87		.00	.87		.45						
1248	5000																	
10S/17E-26B01 M		76.5F	8.0	150	11	4.0	16	2.1	0.0	70	3.0	8.0	6.0	0.2	.0	--	--	41
05/28/65	5801				.55	.33	.70	.05	.00	1.15	.06	.23	.10				85	0
1230	5000				34	20	43	3		75	4	15	6					
10S/18E-08J01 M		--	7.3	680	64	27	45	5.0	0.0	319	29	43	41	0.1	.0	--	--	211
05/28/65	5801				3.19	2.22	1.96	.13	.00	5.23	.60	1.21	.66				410	0
1332	5000				43	30	26	2		68	8	16	9					
10S/18E-12M01 M		71.0F	7.8	265	16	10	25	1.1	0.0	100	1.0	21	28	0.1	.0	--	--	76
05/28/65	5801				.80	.82	1.09	.03	.00	1.64	.02	.59	.45				151	0
1405	5000				29	30	40	1		61	1	22	17					
10S/18E-20M02 M		79.0F	7.2	220	17	6.0	19	2.4	0.0	83	3.0	15	24	0.1	.0	--	--	66
05/28/65	5801				.85	.49	.83	.06	.00	1.36	.06	.42	.39				127	0
1315	5000				38	22	37	3		61	3	19	17					
10S/18E-22B01 M		72.6F	8.5	306	23	7.7	25	--	5.0	111	--	20	--	--	--	--	--	89
06/10/65	5050				1.15	.63	1.09		.17	1.82		.56						0
1217	5000																	
10S/20E-28K01 M		--	7.7	250	17	10	21	1.5	0.0	110	2.0	11	21	0.1	.0	--	--	81
05/28/65	5801				.85	.82	.91	.04	.00	1.80	.04	.31	.34				138	0
0800	5000				32	31	35	2		72	2	12	14					
10S/20E-29H01 M		72.5F	7.5	340	34	10	20	3.5	0.0	146	4.0	15	28	0.1	.0	--	--	122
05/28/65	5801				1.70	.82	.87	.09	.00	2.39	.08	.42	.45				186	3
0918	5000				49	24	25	3		72	2	13	13					
11S/14E-01R01 M		66.1F	8.3	517	--	--	--	--	0.0	168	--	56	--	--	--	--	--	161
10/07/64	5050								.00	2.76		1.58						23
	5000																	
11S/14E-01R01 M		66.0F	8.2	576	51	16	37	4.7	0.0	211	9.4	57	16	--	.0	--	338	194
06/07/65	5050			595	2.54	1.32	1.61	.12	.00	3.46	.20	1.61	.26				294	21
					[illegible]	[illegible]	[illegible]	[illegible]		63	4	29	5					

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
11S/14E-03K01 M	--	8.2	1902	--	--	--	--	0.0	174	--	496	--	--	--	--	--	685
10/08/64 5050								.00	2.85		13.99						543
5000																	
11S/14E-03K01 M	--	8.4	2030	172	40	166	6.0	6.0	208	48	509	14	--	.0	--	1690	595
06/08/65 5050			1920	8.58	3.29	7.22	.15	.20	3.41	1.00	14.35	.23				1063	415
1630 5000				45	17	38	1	1	18	5	75	1					
11S/14E-05E01 M	77.8F	8.5	778	79	16	35	4.5	6.0	90	12	173	2.9	--	.0	--	544	262
06/09/65 5050			729	3.94	1.32	1.52	.12	.20	1.48	.25	4.88	.05				373	178
1400 5000				57	19	22	2	3	22	4	71	1					
11S/14E-06G01 M	--	8.3	2760	--	--	--	--	0.0	132	--	817	--	--	--	--	--	896
10/09/64 5050								.00	2.16		23.04						789
5000																	
11S/14E-06G01 M	--	8.3	3360	103	52	482	3.2	0.0	195	104	879	33	--	.0	--	1830	471
06/07/65 5050			3160	5.14	4.27	20.97	.08	.00	3.20	2.16	24.79	.53				1752	311
1555 5000				17	14	69			10	7	81	2					
11S/14E-07D01 M	68.0F	7.7	284	17	2.1	39	0.8	0.0	101	6.0	36	0.6	0.1	.0	54	--	51
07/07/65 5000				.85	.17	1.70	.02	.00	1.66	.12	1.02	.01				205	0
5000				31	6	62	1		59	4	36						
11S/14E-09F01 M	--	8.9	871	59	11	114	2.2	28	286	15	105	2.2	--	.1	--	506	192
06/09/65 5050			831	2.94	.90	4.96	.06	.93	4.69	.31	2.96	.04				477	0
1415 5000				33	10	56	1	10	53	3	33						
11S/14E-12H01 M	--	8.3	779	--	--	--	--	0.0	138	--	142	--	--	--	--	--	188
10/07/64 5050								.00	2.26		4.00						75
5000																	
11S/14E-17P02 M	70.8F	8.4	268	15	1.6	38	1.1	3.0	87	3.1	26	12	--	.0	--	209	44
06/10/65 5050			258	.75	.13	1.65	.03	.10	1.43	.06	.73	.19				142	0
1400 5000				29	5	64	1	4	57	2	29	8					
11S/14E-19B01 M	65.0F	8.3	1320	65	8.0	188	4.0	0.0	246	88	233	3.9	--	.1	--	750	195
06/07/65 5050			1220	3.24	.66	8.18	.10	.00	4.03	1.83	6.57	.06				711	0
1400 5000				27	5	67	1		32	15	53						
11S/14E-21N02 M	66.6F	7.8	7690	--	--	--	--	0.0	60	--	2560	--	--	--	--	--	2270
10/07/64 5050								.00	.98		72.19						2223
5000																	
11S/14E-21N02 M	66.4F	8.0	8170	662	176	830	14	0.0	200	208	2730	9.7	--	.0	--	6100	2380
06/09/65 5050			7090	33.03	14.47	36.11	.36	.00	3.28	4.33	76.99	.16				4728	2218
1440 5000				39	17	43			4	5	91						
11S/14E-24B01 M	69.4F	8.3	428	--	--	--	--	0.0	146	--	46	--	--	--	--	--	136
10/07/64 5050								.00	2.39		1.30						17
5000																	

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
11S/14E-24R01 M	69.5F	8.6	453	40	11	28	2.6	8.0	134	10	53	9.4	--	.1	--	287	146
06/07/65 5050			420	2.00	.90	1.22	.07	.27	2.20	.21	1.49	.15				228	23
1500 5000				48	21	29	2	6	51	5	34	3					
11S/14E-25L01 M	--	8.7	1990	148	23	220	5.2	13	356	18	435	27	--	.1	--	1320	466
06/09/65 5050			1900	7.39	1.89	9.57	.13	.43	5.84	.37	12.27	.43				1064	153
1300 5000				39	10	50	1	2	30	2	63	2					
11S/14E-25R01 M	69.4F	8.6	347	--	--	--	--	8.0	136	--	22	--	--	--	--	--	102
10/07/64 5050								.27	2.23		.62						0
5000																	
11S/14E-28B01 M	69.4F	8.2	1010	--	--	--	--	0.0	75	--	256	--	--	--	--	--	288
10/07/64 5050								.00	1.23		7.22						227
5000																	
11S/14E-30H01 M	67.1F	7.9	316	21	5.2	33	3.5	0.0	133	4.4	21	6.1	--	.0	--	248	74
10/07/64 5050				1.05	.43	1.44	.09	.00	2.18	.09	.59	.10				159	0
5000				35	14	48	3		74	3	20	3					
11S/14E-32B01 M	64.6F	7.8	925	84	22	66	1.2	0.0	234	58	141	7.6	--	.1	--	559	301
10/07/64 5050				4.19	1.81	2.87	.03	.00	3.84	1.21	3.98	.12				495	109
5000				47	20	32			42	13	43	1					
11S/14E-36CC1 M	69.4F	8.4	538	--	--	--	--	4.0	125	--	77	--	--	--	--	--	125
10/07/64 5050								.13	2.05		2.17						16
5000																	
11S/14E-36R01 M	69.4F	7.9	334	30	5.8	26	3.1	0.0	140	3.6	25	3.5	--	.0	--	235	99
10/07/64 5050				1.50	.48	1.13	.08	.00	2.30	.07	.71	.06				166	0
5000				47	15	35	3		73	2	23	2					
11S/14E-36RC1 M	69.0F	8.0	322	27	6.7	25	--	0.0	138	--	22	--	--	--	--	--	95
06/07/65 5050			292	1.35	.55	1.09		.00	2.26		.62						0
1445 5000																	
11S/15E-06F01 M	--	8.6	616	--	--	--	--	8.0	172	--	84	--	--	--	--	--	146
10/08/64 5050								.27	2.82		2.37						0
5000																	
11S/15E-06F01 M	65.8F	8.4	637	28	21	65	5.7	4.0	197	17	78	7.2	--	.0	--	336	156
06/07/65 5050			820	1.40	1.73	2.83	.15	.13	3.23	.35	2.20	.12				322	0
1520 5000				23	28	46	2	2	54	6	36	2					
11S/15E-23L01 M	67.7F	8.6	382	23	13	32	3.1	7.0	148	5.3	24	10	--	.0	--	258	110
06/09/65 5050			425	.15	1.07	1.39	.08	.23	2.43	.11	.68	.16				190	0
1215 5000				31	29	38	2	6	67	3	19	4					
11S/15E-26R01 M	68.2F	8.4	365	36	9.2	22	3.2	3.0	168	5.4	22	3.1	--	.0	--	238	128
06/09/65 5050			332	.80	.76	.96	.08	.10	2.76	.11	.62	.05				186	0
1200 5000				50	21	27	2	3	76	3	17	1					

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
11S/16E-06P02 M		6E.4F	8.6	552	21	27	42	5.0	6.0	167	18	56	22	--	.0	--	368	162
06/09/65	5050			491	1.05	2.22	1.83	.13	.20	2.74	.37	1.58	.35				279	15
1115	5000				20	42	35	2	4	52	7	30	7					
11S/16E-17C01 M		--	8.6	386	--	--	--	--	14	156	--	25	--	--	--	--	--	115
10/27/64	5050								.47	2.56		.71						0
	5000																	
11S/16E-17M02 M		--	8.6	465	--	--	--	--	21	114	--	61	--	--	--	--	--	123
10/27/64	5050								.70	1.87		1.72						0
	5000																	
11S/16E-2EC02 M		70.2F	8.5	238	18	4.9	20	2.1	6.0	80	4.0	20	3.7	--	.0	--	190	65
06/09/65	5050			211	.90	.40	.87	.05	.20	1.31	.08	.56	.06				118	0
1045	5000				41	18	39	2	9	59	4	25	3					
11S/17E-04F01 M		70.6F	8.6	304	24	7.5	21	2.9	5.0	107	1.8	21	19	--	.0	--	224	91
06/18/65	5050			270	1.20	.62	.91	.07	.17	1.75	.04	.59	.31				155	0
1140	5000				43	22	33	3	6	61	1	21	11					
11S/17E-25B01 M		68.1F	8.3	199	14	4.1	19	--	0.0	80	--	17	--	--	--	--	--	52
06/07/65	5050			144	.70	.34	.83		.00	1.31		.48						0
1445	5000																	
11S/18E-06P01 M		70.0F	7.7	225	18	5.8	18	1.8	0.0	93	2.5	18	4.2	--	.0	--	145	69
06/08/65	5050			220	.90	.48	.78	.05	.00	1.53	.05	.51	.07				114	0
1425	5000				41	22	35	2		71	2	24	3					
11S/18E-17N01 M		--	8.5	236	19	5.2	20	5.0	3.0	107	0.6	14	5.2	--	.0	--	179	69
06/16/65	5050			229	.95	.43	.87	.13	.10	1.75	.01	.39	.08				124	0
1245	5000				40	18	37	5	4	75		17	3					
11S/18E-17N02 M		68.4F	8.6	323	27	6.9	23	5.7	5.0	123	4.3	18	13	--	.0	--	224	96
06/16/65	5050			290	1.35	.57	1.00	.15	.17	2.02	.09	.51	.21				163	0
1230	5000				44	19	33	5	6	67	3	17	7					
11S/18E-22B01 M		72.6F	8.5	306	23	7.6	25	--	5.0	111	--	20	--	--	--	--	--	89
06/10/65	5050			278	1.15	.63	1.09		.17	1.82		.56						0
1217	5000																	
11S/18E-27C01 M		--	7.2	219	17	3.8	19	2.3	0.0	79	4.0	21	8.8	0.0	.0	68	175	58
08/13/65	5000				.85	.31	.83	.06	.00	1.30	.08	.59	.14				193	0
	5000				41	15	40	3		62	4	28	7					
11S/18E-30E01 M		69.2F	8.6	260	20	6.1	23	4.2	6.0	105	1.2	19	5.7	--	.0	--	215	75
06/21/65	5050			250	1.00	.50	1.00	.11	.20	1.72	.02	.54	.09				137	0
0900	5000				38	19	38	4	8	67	1	21	4					
11S/18E-34H01 M		69.7F	9.1	188	13	3.8	17	3.9	0.0	71	2.1	14	10	--	.0	--	152	48
06/08/65	5050			186	.65	.31	.74	.10	.00	1.16	.04	.39	.16				99	0
1550	5000				36	17	41	6		66	2	22	9					

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
11S/19E-10C01 M		71.2F	8.7	409	39	13	24	4.2	12	159	15	20	11	--	.0	--	232	151
06/10/65	5050			375	1.95	1.07	1.04	.11	.40	2.61	.31	.56	.18				216	1
1335	5000				47	26	25	3	10	64	8	14	4					
11S/19E-19G01 M		72.0F	8.4	206	13	4.2	17	4.0	4.0	68	3.0	17	2.8	--	.1	--	187	50
06/08/65	5050			190	.65	.35	.74	.10	.13	1.12	.06	.48	.05				98	0
1625	5000				35	19	40	5	7	61	3	26	3					
11S/19E-32C01 M		76.8F	7.9	240	21	2.0	23	5.0	0.0	87	2.0	21	12	0.8	.0	--	--	62
05/27/65	5801				1.05	.16	1.00	.13	.00	1.43	.04	.59	.19				129	0
1515	5000				45	7	43	6		64	2	26	8					
11S/19E-33J01 M		76.8F	8.0	240	22	4.0	22	4.0	0.0	75	2.0	32	15	0.1	.0	--	--	71
05/27/65	5801				1.10	.33	.96	.10	.00	1.23	.04	.90	.24				138	10
1500	5000				44	13	39	4		51	2	37	10					
11S/19E-34N01 M		--	8.0	257	21	7.0	21	4.4	0.0	71	14	19	36	0.1	.0	--	--	81
05/27/65	5801				1.05	.58	.91	.11	.00	1.16	.29	.54	.58				157	23
1450	5000				40	22	34	4		45	11	21	23					
11S/20E-11G01 M		66.0F	8.2	304	28	5.8	18	4.7	0.0	89	12	17	31	--	.1	--	211	94
06/10/65	5050			273	1.40	.48	.78	.12	.00	1.46	.25	.48	.50				160	21
0938	5000				50	17	28	4		54	9	18	19					
11S/20E-31F01 M		74.0F	8.0	172	11	3.5	15	--	0.0	5.0	--	12	--	--	--	--	--	42
06/09/65	5050			170	.55	.29	.65		.00	.08		.34						38
1215	5000																	
12S/14E-01N01 M		69.4F	8.3	1180	84	16	116	4.2	0.0	159	40	256	3.4	--	.1	--	732	277
06/11/65	5050			1159	4.19	1.32	5.05	.11	.00	2.61	.83	7.22	.05				598	147
1215	5000				39	12	47	1		24	8	67						
12S/14E-03J01 M		--	8.6	474	--	--	--	--	7.0	185	--	43	--	--	--	--	--	48
10/08/64	5050								.23	3.03		1.21						0
	5000																	
12S/14E-04J02 M		66.5F	7.9	5090	--	--	--	--	0.0	173	--	1520	--	--	--	--	--	1060
10/07/64	5050								.00	2.84		42.86						919
	5000																	
12S/14E-04J02 M		66.2F	8.0	5320	309	85	668	28	0.0	90	223	1670	5.9	--	.1	--	3900	1120
06/10/65	5050			4910	15.42	6.99	29.06	.72	.00	1.48	4.64	47.09	.09				3033	1047
1250	5000				30	13	56	1		3	9	88						
12S/14E-09B01 M		--	8.3	706	--	--	--	--	0.0	125	--	116	--	--	--	--	--	163
10/07/64	5050								.00	2.05		3.27						61
	5000																	
12S/14E-09B01 M		--	8.7	990	120	18	50	2.0	14	238	61	152	1.6	--	.1	--	646	374
06/07/65	5050			992	5.99	1.48	2.18	.05	.47	3.90	1.27	4.29	.03				535	156
1305	5000				62	15	22	1	5	39	13	43						

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
12S/14E-10N01 M	66.0F	8.3	3180	250	37	326	--	0.0	159	--	827	--	--	--	--	--	776
06/07/65 5050			2880	12.48	3.04	14.18		.00	2.61		23.32						646
5000																	
12S/14E-12N01 M	67.9F	7.7	2060	113	34	260	1.5	0.0	296	84	452	1.5	0.0	.1	54	--	422
10/08/64 5000				5.64	2.79	11.31	.04	.00	4.85	1.75	12.75	.02				1145	180
5000				29	14	57			25	9	66						
12S/14E-12N01 M	67.9F	8.3	1770	84	28	235	--	0.0	224	--	406	--	--	--	--	--	326
06/11/65 5050			1628	4.19	2.33	10.22		.00	3.67		11.45						143
1230 5000																	
12S/14E-14R01 M	--	7.8	--	24	3.5	229	--	0.0	183	49	262	--	--	.1	--	725	75
07/12/65 5802				1.20	.29	9.96		.00	3.00	1.02	7.39					657	0
5702				10	3	87			26	9	65						
12S/14E-16K01 M	66.8F	8.7	845	12	1.7	166	--	8.0	150	--	125	--	--	--	--	--	37
06/10/65 5050			772	.60	.14	7.22		.27	2.46		3.53						0
1230 5000																	
12S/14E-17B02 M	64.8F	8.4	486	--	--	--	--	2.0	114	--	44	--	--	--	--	--	39
10/07/64 5050								.07	1.87		1.24						0
5000																	
12S/14E-24G01 M	--	7.7	--	28	5.0	178	--	0.0	241	35	177	--	--	.1	--	640	90
08/05/65 5802				1.40	.41	7.74		.00	3.95	.73	4.99					541	0
5702				15	4	81			41	8	52						
12S/14E-26G01 M	--	8.3	1390	59	8.0	209	2.1	0.0	161	107	288	0.8	--	.2	--	810	180
10/23/64 5050				2.94	.66	9.09	.05	.00	2.64	2.23	8.12	.01				753	48
0920 5000				23	5	71			20	17	62						
12S/14E-27M01 M	--	8.3	202	--	--	--	--	0.0	84	--	16	--	--	--	--	--	8
10/23/64 5050								.00	1.38		.45						0
5000																	
12S/14E-35M01 M	--	8.0	336	10	3.9	53	0.8	0.0	125	18	27	1.1	--	.1	--	224	41
10/23/64 5050				.50	.32	2.31	.02	.00	2.05	.37	.76	.02				175	0
1015 5000				16	10	73	1		64	12	24	1					
12S/14E-36C01 M	--	8.6	1210	--	--	--	--	14	131	--	205	--	--	--	--	--	47
10/23/64 5050								.47	2.15		5.78						0
5000																	
12S/15E-04E01 M	--	8.7	387	--	--	--	--	14	149	--	32	--	--	--	--	--	100
10/28/64 5050								.47	2.44		.90						0
5000																	
12S/15E-04F01 M	68.0F	8.4	631	60	16	39	3.7	4.0	202	13	82	3.6	--	.0	--	362	217
07/30/65 5050				2.99	1.32	1.70	.09	.13	3.31	.27	2.31	.06				320	45
1130 5050				49	22	28	1	2	54	4	38	1					

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
12S/15E-04K02 M	72.2F	8.5	487	37	4.0	50	1.8	4.0	119	6.1	78	4.0	--	.0	--	282	109
06/09/65 5050			430	1.85	.33	2.18	.05	.13	1.95	.13	2.20	.06				243	5
1250 5000				42	7	49	1	3	44	3	49	1					
12S/15E-08B01 M	--	8.2	661	--	--	--	--	0.0	104	--	140	--	--	--	--	--	184
10/28/64 5050								.00	1.71		3.95						99
5000																	
12S/15E-11J01 M	--	8.7	776	--	--	--	--	19	192	--	113	--	--	--	--	--	103
11/08/64 5050								.63	3.15		3.19						0
5000																	
12S/15E-17E01 M	71.2F	8.6	1580	28	22	266	4.0	14	196	62	341	8.8	--	.2	--	879	160
06/11/65 5050			1725	1.40	1.81	11.57	.10	.47	3.21	1.29	9.62	.14				842	0
1330 5000				9	12	78	1	3	22	9	65	1					
12S/15E-20L01 M	67.6F	7.7	304	25	3.8	30	1.5	0.0	130	4.8	19	2.8	--	.0	--	204	78
10/28/64 5050				1.25	.31	1.31	.04	.00	2.13	.10	.54	.05				151	0
1520 5000				43	11	45	1		76	4	19	2					
12S/15E-21D01 M	70.4F	7.7	214	12	2.4	29	2.8	0.0	95	1.8	17	1.7	--	.0	--	192	40
10/28/64 5050				.60	.20	1.26	.07	.00	1.56	.04	.48	.03				113	0
1530 5000				28	9	59	3		74	2	23	1					
12S/15E-23P01 M	--	8.6	256	--	--	--	--	9.0	110	--	17	--	--	--	--	--	70
10/26/64 5050								.30	1.80		.48						0
5000																	
12S/15E-24F01 M	--	8.6	311	--	--	--	--	19	116	--	18	--	--	--	--	--	80
10/26/64 5050								.63	1.90		.51						0
5000																	
12S/15E-24H01 M	--	8.8	327	--	--	--	--	21	127	--	16	--	--	--	--	--	92
10/26/64 5050								.70	2.08		.45						0
5000																	
12S/15E-25G01 M	70.5F	8.0	219	16	3.2	25	2.3	0.0	104	4.0	14	3.7	--	.0	--	190	53
10/26/64 5050				.80	.26	1.09	.06	.00	1.71	.08	.39	.06				119	0
1200 5000				36	12	49	3		76	4	17	3					
12S/15E-27G01 M	--	8.7	439	--	--	--	--	25	152	--	34	--	--	--	--	--	119
10/26/64 5050								.83	2.49		.96						0
5000																	
12S/15E-27G01 M	69.6F	8.6	382	26	6.3	39	3.6	6.0	137	7.6	35	2.9	--	.1	--	252	91
06/10/65 5050			382	.30	.52	1.70	.09	.20	2.25	.16	.99	.05				194	0
1500 5000				36	14	47	2	5	62	4	27	1					
12S/15E-27L01 M	--	9.0	646	--	--	--	--	31	273	--	38	--	--	--	--	--	85
10/26/64 5050								1.03	4.48		1.07						0
5000																	

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
12S/15E-27L01 M		--	8.9	720	33	6.2	139	--	17	343	--	37	--	--	--	--	--	108
06/11/65	5050			671	1.65	.51	6.05		.57	5.63		1.04						0
1300	5000																	
12S/15E-32B01 M		--	8.9	533	--	--	--	--	24	192	--	41	--	--	--	--	--	61
10/23/64	5050								.80	3.15		1.16						0
1458	5000																	
12S/15E-32C01 M		--	8.8	694	--	--	--	--	25	199	--	77	--	--	--	--	--	51
10/23/64	5050								.83	3.26		2.17						0
1240	5000																	
12S/15E-32C02 M		--	8.8	367	--	--	--	--	14	138	--	26	--	--	--	--	--	44
10/25/64	5050								.47	2.26		.73						0
	5000																	
12S/15E-36J01 M		--	8.8	414	--	--	--	--	14	178	--	25	--	--	--	--	--	100
10/26/64	5050								.47	2.92		.71						0
	5000																	
12S/16E-01J01 M		70.0F	7.3	408	40	7.3	27	4.0	0.0	130	7.0	53	8.4	0.0	.0	96	293	130
08/12/65	5000				2.00	.60	1.17	.10	.00	2.13	.15	1.49	.14				306	24
	5000				52	16	30	3		54	4	38	4					
12S/16E-05E01 M		--	8.3	367	--	--	--	--	0.0	89	--	62	--	--	--	--	--	112
11/03/64	5050								.00	1.46		1.75						39
	5000																	
12S/16E-05E01 M		--	8.4	410	35	8.9	25	2.4	3.0	88	4.3	70	1.4	--	.0	--	321	124
06/09/65	5050			872	1.75	.73	1.09	.06	.10	1.44	.09	1.97	.02				193	47
1125	5000				48	20	30	2	3	40	2	54	1					
12S/16E-17D01 M		68.0F	8.2	292	25	5.2	22	1.1	0.0	110	7.9	26	1.8	--	.1	--	193	84
06/09/65	5050			258	1.25	.43	.96	.03	.00	1.80	.16	.73	.03				143	0
1000	5000				47	16	36	1		66	6	27	1					
12S/16E-17R02 M		68.0F	8.5	340	31	9.0	33	3.4	6.0	154	10	32	1.0	0.1	.0	--	--	63
01/20/65	5801				1.55	.74	1.44	.09	.20	2.53	.21	.90	.02				201	0
1015	5000				41	19	38	2	5	66	5	23	1					
12S/16E-17R02 M		67.0F	8.3	582	37	20	49	5.7	0.0	228	28	46	2.8	--	.0	--	347	177
06/08/65	5050			613	1.85	1.64	2.13	.15	.00	3.74	.58	1.30	.05				300	0
1455	5000				32	28	37	3		66	10	23	1					
12S/16E-21B01 M		70.0F	8.4	227	17	4.5	18	2.6	4.0	80	5.8	18	2.5	--	.0	--	176	61
06/08/65	5050			206	.85	.37	.78	.07	.13	1.31	.12	.51	.04				112	0
1510	5000				41	18	38	3	6	62	6	24	2					
12S/17E-07L01 M		68.0F	8.7	609	56	17	40	--	9.0	173	--	33	--	--	--	--	--	212
06/16/65	5050			550	2.79	1.44	1.74		.30	2.84		.93						55
1335	5000																	

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
12S/17E-16L01 M	68.8F	8.5	220	17	5.5	20	2.0	4.0	96	0.3	13	5.9	--	.0	--	180	65
06/16/65 5050			210	.85	.45	.87	.05	.13	1.57	.01	.37	.09				115	0
1035 5000				38	20	39	2	6	72		17	4					
12S/18E-01N01 M	69.4F	8.4	376	29	9.1	26	5.6	4.0	104	12	26	38	--	.0	--	269	110
06/09/65 5050			344	1.45	.75	1.13	.14	.13	1.71	.25	.73	.61				201	18
1512 5000				42	22	33	4	4	50	7	21	18					
12S/18E-07L01 M	66.8F	8.3	190	16	4.6	14	--	0.0	85	--	10	--	--	--	--	--	59
06/08/65 5050			187	.80	.38	.61		.00	1.39		.28						0
1038 5000																	
12S/18E-14J01 M	71.8F	8.5	295	20	6.5	23	--	4.0	70	--	25	--	--	--	--	--	77
06/16/65 5050			252	1.00	.54	1.00		.13	1.15		.71						13
0955 5000																	
12S/18E-31J01 M	72.4F	8.1	239	18	6.6	19	2.8	0.0	84	1.3	23	11	--	.0	--	199	72
06/08/65 5050			236	.90	.54	.83	.07	.00	1.38	.03	.65	.18				123	3
1255 5000				38	23	35	3		62	1	29	8					
12S/19E-12R01 M	72.4F	7.6	206	12	5.4	13	4.8	0.0	51	4.4	13	23	--	.0	--	208	52
06/09/65 5050			187	.60	.44	.57	.12	.00	.84	.09	.37	.37				101	10
1337 5000				35	25	33	7		50	5	22	22					
12S/19E-20L01 M	75.2F	7.9	242	22	6.0	20	4.0	0.0	81	4.0	25	24	0.1	.0	--	--	78
05/27/65 5050				1.10	.49	.87	.10	.00	1.33	.08	.71	.39				145	12
1425 5000				43	19	34	4		53	3	28	16					
12S/19E-25E01 M	65.6F	8.4	194	18	4.1	14	3.8	4.0	84	1.6	7.7	7.6	--	.0	--	148	62
06/09/65 5050			186	.90	.34	.61	.10	.13	1.38	.03	.22	.12				102	0
1404 5000				46	17	31	5	7	73	2	12	6					
12S/20E-09F01 M	71.0F	8.2	160	11	4.7	13	3.0	0.0	76	0.3	7.9	3.5	--	.0	--	133	47
06/09/65 5050			156	.55	.39	.57	.08	.00	1.25	.01	.22	.06				81	0
1237 5000				35	25	36	5		81	1	14	4					
12S/20E-16G01 M	--	8.5	241	17	3.5	30	1.6	4.0	100	11	7.9	14	--	.0	--	152	57
06/04/65 5050			246	.85	.29	1.31	.04	.13	1.64	.23	.22	.23				138	0
1430 5000				34	12	53	2	5	67	9	9	9					
13S/15E-01N01 M	68.0F	7.8	1870	184	30	158	3.2	0.0	384	84	375	4.4	0.0	.0	79	1250	582
08/10/65 5000				9.18	2.47	6.87	.08	.00	6.30	1.75	10.58	.07				1106	267
5000				49	13	37			34	9	57						
13S/15E-03M01 M	--	8.2	685	28	3.4	113	2.4	0.0	194	27	103	1.3	0.0	.2	69	438	84
07/30/65 5000				.40	.28	4.92	.06	.00	3.18	.56	2.90	.02				442	0
5000				21	4	74	1		48	8	44						
13S/15E-04G01 M	67.8F	8.8	590	12	2.9	110	2.6	12	192	18	60	2.0	--	.3	--	379	42
06/10/65 5050			538	.60	.24	4.79	.07	.40	3.15	.37	1.69	.03				314	0
1430 5000				11	4	84	1	7	56	7	30	1					

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
13S/15E-06D01 M	66.0F	8.4	1500	29	5.0	266	4.2	3.0	149	112	308	0.3	0.9	.5	69	--	93
06/18/65 5000				1.45	.41	11.57	.11	.10	2.44	2.33	8.69	.00				671	0
5000				11	3	85	1	1	18	17	64						
13S/15E-11F01 M	69.3F	8.2	471	7.6	1.7	91	2.2	0.0	188	12	42	2.3	--	.3	--	326	26
10/23/64 5050				.38	.14	3.96	.06	.00	3.08	.25	1.18	.04				251	0
1347 5000				8	3	87	1		68	5	26	1					
13S/15E-11P01 M	66.7F	8.4	596	18	2.9	110	2.3	6.0	276	14	38	1.4	--	.2	--	404	57
10/23/64 5050				.90	.24	4.79	.06	.20	4.53	.29	1.07	.02				328	0
1333 5000				15	4	80	1	3	74	5	18						
13S/15E-14P01 M	68.0F	8.6	397	2.2	0.5	82	1.3	6.0	115	14	45	0.9	--	.2	--	274	7
06/07/65 5050			361	.11	.04	3.57	.03	.20	1.89	.29	1.27	.01				208	0
1140 5000				3	1	95	1	5	52	8	35						
13S/15E-17A01 M	--	8.3	610	--	--	--	--	0.0	151	--	69	--	--	--	--	--	172
10/23/64 5050								.00	2.48		1.95						48
1115 5000																	
13S/15E-18L01 M	65.2F	8.6	509	3.1	0.2	103	--	5.0	113	--	53	--	--	--	--	--	8
06/11/65 5050			459	.15	.02	4.48		.17	1.85		1.49						0
1100 5000																	
13S/15E-18R01 M	64.8F	8.2	514	18	4.1	87	2.9	0.0	187	33	46	0.6	--	.0	--	310	62
10/23/64 5050				.90	.34	3.78	.07	.00	3.07	.69	1.30	.01				283	0
1130 5000				18	7	74	1		61	14	26						
13S/15E-20C01 M	64.4F	8.4	215	3.2	0.0	44	0.8	2.0	86	3.4	18	0.0	--	.1	--	153	7
06/18/65 5050			205	.16	.00	1.91	.02	.07	1.41	.07	.51	.00				114	0
1415 5000				8		91	1	3	68	3	25						
13S/15E-24D01 M	--	9.0	411	--	--	--	--	23	195	--	12	--	--	--	--	--	51
10/26/64 5050								.77	3.20		.34						0
5000																	
13S/15E-25D05 M	--	8.2	1110	7.4	1.1	237	4.8	0.0	219	143	151	1.8	--	.7	--	775	23
08/27/65 5050			1040	.37	.09	10.31	.12	.00	3.59	2.97	4.26	.03				654	0
5000				3	1	95	1		33	27	39						
13S/16E-02C02 M	68.2F	8.1	539	52	14	36	2.6	0.0	263	11	24	11	--	.0	--	335	189
06/17/65 5050			480	2.59	1.15	1.57	.07	.00	4.31	.23	.68	.18				279	0
1600 5000				48	21	29	1		80	4	13	3					
13S/16E-06M01 M	--	8.7	328	--	--	--	--	14	136	--	17	--	--	--	--	--	59
10/26/64 5050								.47	2.23		.48						0
5000																	
13S/16E-07R01 M	--	8.7	691	--	--	--	--	10	125	--	114	--	--	--	--	--	117
10/26/64 5050								.33	2.05		3.21						0
5000																	

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
13S/16E-08H01	M	69.6F	8.7	429	30	9.0	41	2.5	12	135	10	44	3.6	--	.1	--	300	112
06/10/65	5050			375	1.50	.74	1.78	.06	.40	2.21	.21	1.24	.06				218	0
1530	5000				37	18	44	1	10	54	5	30	1					
13S/16E-10H01	M	70.0F	8.1	599	56	11	55	2.2	0.0	248	23	51	14	0.0	.0	98	411	184
08/10/65	5000				2.79	.90	2.39	.06	.00	4.07	.48	1.44	.23				432	0
	5000				45	15	39	1		65	8	23	4					
13S/16E-18F01	M	--	9.1	639	--	--	--	--	48	169	--	63	--	--	--	--	--	79
10/26/64	5050								1.60	2.77		1.78						0
	5000																	
13S/16E-18F01	M	69.0F	8.3	569	16	2.4	106	3.4	2.0	238	18	64	0.7	0.4	.2	90	380	50
08/11/65	5000				.80	.20	4.61	.09	.07	3.41	.37	1.80	.01				405	0
	5000				14	4	81	2	1	60	7	32						
13S/16E-18H01	M	--	8.9	557	--	--	--	--	29	142	--	45	--	--	--	--	--	39
10/26/64	5050								.97	2.33		1.27						0
	5000																	
13S/17E-05P01	M	71.2F	8.6	329	23	5.7	32	2.8	5.0	118	9.5	21	6.8	--	.0	--	214	81
06/08/65	5050			302	1.15	.47	1.39	.07	.17	1.94	.20	.59	.11				164	0
1205	5000				37	15	45	2	6	64	7	20	4					
13S/16E-03C01	M	70.5F	7.7	665	49	22	44	5.9	0.0	184	23	78	32	--	.0	--	387	212
06/08/65	5050			614	2.45	1.81	1.91	.15	.00	3.02	.48	2.20	.52				344	61
1310	5000				39	29	30	2		49	8	35	8					
13S/21E-31R01	M	--	7.8	429	30	21	25	4.8	0.0	221	11	9.1	13	--	.0	--	282	161
07/08/65	5050				1.50	1.73	1.09	.12	.00	3.62	.23	.26	.21				222	0
0920	5050				34	39	25	3		84	5	6	5					
14S/21E-04N01	M	--	7.9	313	24	15	15	2.2	0.0	158	7.9	7.7	5.1	--	.0	--	192	121
07/08/65	5050				1.20	1.23	.65	.06	.00	2.59	.16	.22	.08				154	0
0900	5050				38	39	21	2		85	5	7	3					
14S/25E-02R01	M	66.0F	8.2	358	34	14	18	1.9	0.0	155	15	10	27	--	.0	55	265	142
03/02/65	5000				1.70	1.15	.78	.05	.00	2.54	.31	.28	.43				251	15
1410	5050				46	31	21	1		71	9	8	12					
15S/12E-01R01	M	--	8.6	1550	39	6.9	288	5.5	10	150	534	64	1.2	--	1.7	--	1120	126
12/17/64	5000				1.95	.57	12.53	.14	.33	2.46	11.11	1.80	.02				1024	0
1330	5050				13	4	82	1	2	16	71	11						
15S/17E-24J02	M	--	8.0	0300	1080	120	813	50	0.0	110	6.4	3490	4.7	--	.9	--	6450	3190
06/00/65	5050				53.89	9.86	35.37	1.28	.00	1.80	.13	98.42	.08				5619	3102
	5702				54	10	35	1		2		98						
15S/17E-24K01	M	74.0F	8.4	384	9.6	0.7	67	1.2	2.0	125	2.3	42	5.3	--	.0	--	259	27
06/24/65	5050				.48	.06	2.91	.03	.07	2.05	.05	1.18	.09				191	0
1510	5050				14	2	84	1	2	60	1	34	3					

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
16S/17E-04R02 M 07/22/65 5050 1150 5050	--	8.3	661	--	--	98 4.26	1.7 .04	0.0 .00	314 5.15	59 1.23	--	--	0.2	--	--	--	132 0
16S/17E-10L01 M 07/22/65 5050 0920 5050	69.0F	8.3	574	--	--	93 4.05	3.6 .09	0.0 .00	217 3.56	50 1.04	--	--	0.2	--	--	--	80 0
16S/17E-10P01 M 07/22/65 5050 0925 5050	68.0F	8.5	634	--	--	98 4.26	3.5 .09	6.0 .20	237 3.89	58 1.21	--	--	0.3	--	--	--	104 0
16S/17E-16F01 M 07/22/65 5050 1250 5050	66.5F	8.6	958	--	--	166 7.22	4.2 .11	14 .47	231 3.79	156 3.24	--	--	0.3	--	--	--	105 0
17S/15E-30M01 M 12/15/64 5000 1210 5000	84.0F	8.6	2110	32 1.60 7	55 4.52 21	354 15.40 71	3.1 .08	6.0 .20 1	200 3.28 15	706 14.68 65	152 4.29 19	1.4 .02	--	2.2	--	1480 1410	306 132
18S/26E-04C01 M 08/10/65 5050 1355 5050	--	8.6	1020	--	--	--	--	28 .93	366 6.00	--	75 2.12	85 1.37	--	--	--	--	385 39
18S/26E-10K01 M 08/10/65 5050 1025 5050	65.5F	8.3	487	--	--	--	--	0.0 .00	164 2.69	--	12 .34	59 .95	--	--	--	--	183 49
18S/26E-10M01 M 08/10/65 5050 0945 5050	65.0F	8.2	661	--	--	--	--	0.0 .00	242 3.97	--	18 .51	87 1.40	--	--	--	--	234 36
18S/26E-10M02 M 08/10/65 5050 1005 5050	--	8.3	429	--	--	--	--	0.0 .00	172 2.82	--	20 .56	37 .60	--	--	--	--	151 10
18S/26E-15C01 M 08/10/65 5050 0900 5050	--	8.7	790	--	--	--	--	29 .97	288 4.72	--	38 1.07	69 1.11	--	--	--	--	305 21
18S/26E-16L02 M 08/10/65 5050 0830 5050	65.0F	8.5	945	--	--	--	--	9.0 .30	242 3.97	--	90 2.54	113 1.82	--	--	--	--	333 120
18S/26E-25M02 M 08/26/65 5050 1240 5050	--	8.3	667	39 1.95	29 2.45	--	--	0.0 .00	123 2.02	--	64 1.80	56 .90	--	--	--	--	220 119
18S/26E-36C01 M 08/26/65 5050 0725 5050	--	8.4	684	32 1.60	30 2.48	--	--	4.0 .13	147 2.41	--	43 1.21	52 .84	--	3.3	--	--	204 77

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
18S/27E-04C02 M 08/27/65 5050 0835 5050	69.0F	8.2	751	50 2.50	29 2.42	--	--	0.0 .00	133 2.18	--	36 1.02	73 1.18	--	--	--	--	246 137
18S/27E-09B01 M 08/27/65 5050 0815 5050	--	8.5	823	84 4.19	22 1.83	--	--	12 .40	251 4.12	--	30 .85	67 1.08	--	--	--	--	301 75
18S/27E-09H01 M 08/27/65 5050 0910 5050	--	8.7	713	74 3.69	21 1.81	--	--	18 .60	197 3.23	--	27 .76	72 1.16	--	--	--	--	275 84
18S/27E-09H02 M 08/27/65 5050 0920 5050	--	8.8	856	92 4.59	26 2.21	--	--	25 .83	236 3.87	--	39 1.10	71 1.14	--	--	--	--	340 105
18S/27E-09J01 M 08/27/65 5050 1000 5050	--	8.6	825	80 3.99	33 2.77	--	--	14 .47	211 3.46	--	40 1.13	73 1.18	--	--	--	--	338 142
18S/27E-10A01 M 08/27/65 5050 1050 5050	--	8.5	549	31 1.55	26 2.17	--	--	6.0 .20	153 2.51	--	18 .51	42 .68	--	--	--	--	186 51
18S/27E-10C02 M 08/27/65 5050 0755 5050	--	8.3	694	43 2.15	35 2.93	--	--	0.0 .00	153 2.51	--	28 .79	67 1.08	--	--	--	--	254 129
18S/27E-10E02 M 08/27/65 5050 0940 5050	--	8.3	802	58 2.89	30 2.54	--	--	0.0 .00	104 1.71	--	37 1.04	134 2.16	--	--	--	--	272 187
18S/27E-10F01 M 08/27/65 5050 0740 5050	--	8.2	594	47 2.35	24 2.05	--	--	0.0 .00	148 2.43	--	26 .73	58 .93	--	--	--	--	220 99
18S/27E-10J02 M 08/27/65 5050 1040 5050	--	8.6	778	85 4.24	30 2.48	--	--	14 .47	194 3.18	--	26 .73	85 1.37	--	--	--	--	336 154
18S/27E-26C02 M 08/26/65 5050 1355 5050	68.0F	8.1	1160	120 5.99	47 3.87	--	--	0.0 .00	399 6.54	--	104 2.93	46 .74	--	--	--	--	493 166
18S/27E-30C03 M 08/26/65 5050 0710 5050	66.0F	8.4	576	44 2.20	23 1.90	--	--	4.0 .13	164 2.69	--	32 .90	39 .63	--	--	--	--	205 64
18S/27E-31D01 M 08/26/65 5050 0725 5050	--	8.7	637	63 3.14	21 1.74	--	--	16 .53	208 3.41	--	21 .59	58 .93	--	.0	--	--	244 47

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
19S/16E-10D01 M 12/15/64 5000 1135 5050	64.0F	8.5	1470	50 2.50 17	18 1.48 10	240 10.44 72	2.8 .07	2.0 .07	128 2.10 14	458 9.53 64	116 3.27 22	1.4 .02	--	1.5	--	993 952	200 92
19S/16E-32N01 M 12/15/64 5000 1330 5050	84.0F	8.3	3410	202 10.08 25	133 10.93 28	424 18.44 47	5.3 .14	2.0 .07	112 1.84 4	1620 33.70 82	192 5.41 13	0.7 .01	--	1.8	--	2870 2636	105 10
19S/19E-16N01 M 12/22/64 5000 1155 5050	78.0F	8.7	1210	42 2.10 17	4.6 .38 3	230 10.01 80	1.5 .04	18 .60 5	216 3.54 29	314 6.53 53	60 1.69 14	1.5 .02	--	1.6	--	822 779	124 0
19S/26E-02K03 M 08/26/65 5050 1405 5050	--	7.9	947	98 4.89	31 2.59	--	--	0.0 .00	361 5.92	--	56 1.58	37 .60	--	--	--	--	374 78
20S/15E-22D01 M 12/15/64 5000 1115 5050	77.0F	8.5	1980	67 3.34 15	108 8.88 41	212 9.22 43	4.3 .11 1	6.0 .20 1	156 2.56 12	705 14.66 68	147 4.15 19	7.0 .11 1	--	1.4	--	1490 1334	610 472
20S/15E-26C03 M 12/15/64 5000 1430 5050	74.0F	8.6	1890	68 3.39 17	106 8.71 43	182 7.92 39	4.2 .11 1	8.0 .27 1	210 3.44 18	595 12.38 64	115 3.24 17	5.7 .09	--	1.2	--	1430 1188	604 419
20S/26E-02E01 M 08/03/65 5050 5050	--	--	681	--	--	--	--	--	--	--	106 2.99	--	--	--	--	--	--
20S/26E-03F01 M 08/03/65 5050 5050	--	--	2460	--	--	--	--	--	--	--	690 19.46	--	--	--	--	--	--
20S/26E-03H01 M 08/03/65 5050 5050	--	--	1070	--	--	--	--	--	--	--	246 6.94	--	--	--	--	--	--
20S/26E-03K01 M 08/03/65 5050 5050	--	--	2060	--	--	--	--	--	--	--	576 16.24	--	--	--	--	--	--
20S/26E-03L01 M 08/03/65 5050 5050	--	--	1560	--	--	--	--	--	--	--	351 9.90	--	--	--	--	--	--
20S/26E-03M01 M 08/03/65 5050 5050	--	--	608	--	--	--	--	--	--	--	67 1.89	--	--	--	--	--	--

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
21S/16E-35A01 M		83.0F	8.5	1420	66	47	174	3.1	4.0	124	565	34	7.2	--	.5	--	1070	356
12/17/64	5000				3.29	3.86	7.57	.08	.13	2.03	11.75	.96	.12				962	248
1055					22	26	51	1	1	14	78	6	1					
21S/18E-23C03 M		77.0F	8.2	948	41	5.7	149	1.0	0.0	78	338	32	0.4	--	.4	--	648	126
12/15/64	5000				2.05	.47	6.48	.03	.00	1.28	7.03	.90	.01				606	62
0945	5050				23	5	72			14	76	10						
23S/18E-30A01 M		72.0F	8.4	1610	48	38	246	1.6	4.0	114	635	41	22	--	1.4	--	1160	276
12/16/64	5000				2.40	3.12	10.70	.04	.13	1.87	13.21	1.16	.35				1093	176
1545	5050				15	19	66		1	11	79	7	2					
25S/18E-03C01 M		73.0F	8.5	1650	46	95	177	3.7	8.0	158	590	110	14	--	1.7	--	1230	504
12/16/64	5000				2.30	7.81	7.70	.09	.27	2.59	12.27	3.10	.23				1123	361
0945	5050				13	44	43	1	1	14	66	17	1					
21S/27E-27C02 M		--	8.3	614	--	--	--	--	--	--	--	43	21	--	--	--	--	--
04/21/65	5050											1.21	.34					
1020	5050																	
21S/27E-27D01 M		--	8.3	596	--	--	--	--	--	--	--	44	18	--	--	--	--	--
04/21/65	5050											1.24	.29					
1015	5050																	
21S/27E-27F01 M		--	8.0	548	--	--	--	--	--	--	--	41	15	--	--	--	--	--
04/21/65	5050											1.16	.24					
1045	5050																	
27S/22E-06M01 M		72.0F	7.2	3500	269	12	585	3.0	0.0	472	749	606	0.0	0.4	17.0	--	2286	720
04/17/65	5801				13.42	.99	25.45	.08	.00	7.74	15.58	17.09	.00				2473	333
1100	5640				34	2	64			19	39	42						
27S/22E-09D01 M		67.0F	7.4	2900	182	24	425	2.0	0.0	288	475	550	0.0	0.8	1.1	--	1760	555
04/17/65	5801				9.08	1.97	18.49	.05	.00	4.72	9.88	15.51	.00				1801	319
0930	5640				31	7	62			16	33	52						
27S/22E-17P01 M		67.0F	7.1	2750	198	17	400	3.0	0.0	321	460	500	0.0	0.8	1.6	--	1674	565
04/17/65	5801				9.88	1.40	17.40	.08	.00	5.26	9.57	14.10	.00				1738	302
1000	5640				34	5	61			18	33	49						
27S/22E-21P02 M		67.0F	7.4	3600	198	63	520	1.0	0.0	80	563	896	0.0	0.2	.8	--	2342	755
04/17/65	5801			4000	9.88	5.18	22.62	.03	.00	1.31	11.71	25.27	.00				2281	690
1030	5640				26	14	60			3	31	66						
27S/22E-23E01 M		67.0F	8.2	4400	76	15	1010	5.0	0.0	513	667	936	0.0	1.0	2.3	--	2968	250
04/22/65	5801				3.79	1.23	43.94	.13	.00	8.41	13.87	26.40	.00				2964	0
1410	5640				8	3	90			17	28	54						
27S/22E-28G02 M		69.0F	7.1	1460	127	17	172	2.0	0.0	90	444	152	0.0	0.4	.6	--	--	387
04/17/65	5801				6.34	1.40	7.48	.05	.00	1.48	9.24	4.29	.00				959	313
1040	[illegible]																	

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
27S/26E-27R01 M		--	--	1905	288	18	52	5.9	0.0	167	138	445	--	0.0	.0	--	1032	796
05/04/65	5803			~~1905~~	14.41	1.49	2.28	.15	.00	2.74	2.87	12.56					1031	659
	5703				79	8	12	1		15	16	69						
27S/26E-27R01 M		--	7.8	2000	261	45	56	6.0	0.0	171	131	448	59	--	.0	--	1240	838
09/16/65	5050				13.02	3.70	2.44	.15	.00	2.80	2.72	12.63	.95				1090	699
1205	5050				67	19	13	1		15	14	66	5					
27S/26E-27R01 M		--	7.3	2000	266	41	33	5.9	0.0	170	134	451	--	0.1	.0	--	1082	835
09/21/65	5803		~~7.3~~	~~2000~~	13.27	3.41	1.47	.15	.00	2.79	2.80	12.72					1016	695
	5703				73	19	8	1		15	15	69						
28S/22E-01H01 M		77.0F	9.1	1060	24	1.7	188	0.7	5.0	12	9.2	316	1.0	--	.2	--	624	67
08/12/65	5050			1016	1.20	.14	8.18	.02	.17	.20	.19	8.91	.02				552	49
1000	5050				13	1	86		2	2	2	94						
28S/22E-04A01 M		67.0F	8.1	2560	59	46	377	1.8	0.0	66	487	425	1.2	--	.9	--	1530	336
08/28/65	5050				2.94	3.78	16.40	.05	.00	1.08	10.13	11.99	.02				1430	282
1020	5640				13	16	71			5	44	52						
28S/22E-04G01 M		67.0F	8.2	3990	253	14	565	3.6	0.0	86	442	995	0.6	--	2.9	--	2610	690
08/12/65	5050			3467	12.62	1.15	24.58	.09	.00	1.41	9.19	28.06	.01				2318	620
0800	5050				33	3	64			4	24	73						
28S/22E-05R01 M		76.0F	7.1	310	26	5.0	34	1.3	0.0	95	43	28	0.0	0.4	.2	--	--	83
04/22/65	5801				1.30	.41	1.48	.03	.00	1.56	.89	.79	.00				184	5
0900	5640				40	13	46	1		48	27	24						
28S/22E-07Q01 M		75.0F	7.9	2900	169	26	446	3.6	0.0	95	802	412	0.8	--	6.9	--	2030	527
10/23/64	5050				8.43	2.14	19.40	.09	.00	1.56	16.68	11.62	.01				1913	449
1045	5640				28	7	65			5	56	39						
28S/22E-07Q01 M		75.0F	7.2	2775	171	25	465	2.0	0.0	101	768	472	0.0	0.6	8.7	--	1908	530
04/22/65	5801			2900	8.53	2.06	20.23	.05	.00	1.66	15.97	13.31	.00				1962	447
1100	5640				28	7	66			5	52	43						
28S/22E-09R01 M		--	8.0	732	20	4.1	116	1.9	0.0	43	18	192	1.2	--	.3	--	462	67
08/12/65	5050			710	1.00	.34	5.05	.05	.00	.71	.37	5.41	.02				375	32
0820	5050				16	5	78	1		11	6	83						
28S/22E-10R01 M		67.0F	7.3	1620	136	6.8	216	1.7	0.0	306	402	118	0.8	--	.7	--	1090	368
10/12/64	5801			1270	6.79	.56	9.40	.04	.00	5.02	8.36	3.33	.01				1032	117
0845	5640				40	3	56			30	50	20						
28S/22E-10R01 M		65.0F	--	1700	--	--	220	--	--	--	--	132	--	--	--	--	--	--
04/15/65	5050			1620			9.57					3.72						
1035	5640																	
28S/22E-11N01 M		--	8.4	2450	190	40	338	4.3	2.0	332	811	172	0.8	--	1.3	--	1820	637
08/12/65	5050			2200	9.48	3.29	14.70	.11	.07	5.44	16.87	4.85	.01				1722	362
0920	5050				34	12	53			20	62	18						

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
27S/22E-29P02 M	73.0F	7.7	230	12	4.0	29	1.0	0.0	78	12	21	0.0	1.0	.2	--	--	46
04/22/65 5801				.60	.33	1.26	.03	.00	1.28	.25	.59	.00				118	0
1000 5640				27	15	57	1		60	12	28						
27S/23E-27J01 M	79.0F	8.3	282	4.4	2.2	52	0.4	0.0	61	10	48	0.5	--	.1	--	185	20
08/11/65 5050			282	.22	.18	2.26	.01	.00	1.00	.21	1.35	.01				147	0
1140 5050				8	7	85			39	8	53						
27S/26E-22H01 M	72.CF	8.2	996	87	13	77	3.3	0.0	134	31	218	4.0	--	.1	--	598	273
10/02/64 5050				4.34	1.07	3.35	.08	.00	2.20	.64	6.15	.06				499	163
1050 5050				49	12	38	1		24	7	68	1					
27S/26E-22H01 M	--	7.4	1111	101	12	88	2.7	0.0	112	22	270	--	0.1	.1	--	555	306
05/04/65 5803				5.07	1.04	3.83	.07	.00	1.84	.47	7.64					554	214
5703				51	10	38	1		18	5	77						
27S/26E-22H01 M	--	7.9	909	52	6.3	74	5.8	0.0	87	9.6	171	--	0.1	.0	--	406	156
09/22/65 5803				2.59	.52	3.22	.15	.00	1.43	.20	4.82					1362	84
5703				40	8	50	2		22	3	75						
27S/26E-22C01 M	74.CF	8.2	291	15	1.1	40	1.3	0.0	79	20	32	1.8	--	.0	--	181	42
10/02/64 5050				.75	.09	1.74	.03	.00	1.30	.42	.90	.03				150	0
1030 5050				29	3	67	1		49	16	34	1					
27S/26E-22C01 M	--	8.0	435	34	4.9	40	4.7	0.0	87	10	78	--	0.1	.0	--	217	106
05/04/65 5803				1.72	.40	1.74	.12	.00	1.43	.22	2.22					924	35
5703				43	10	44	3		37	6	57						
27S/26E-22C02 M	--	8.1	1950	161	26	176	8.4	0.0	188	40	495	0.8	--	.6	--	1300	507
09/15/65 5050				8.03	2.14	7.66	.22	.00	3.08	.83	13.96	.01				1000	353
5050				44	12	42	1		17	5	78						
27S/26E-27A01 M	78.CF	8.5	365	7.8	1.1	68	0.6	3.0	136	11	31	1.4	--	.4	--	217	24
10/02/64 5050				.39	.09	2.96	.02	.10	2.23	.23	.87	.02				191	0
1100 5050				11	3	86	1	3	65	7	25	1					
27S/26E-27A01 M	--	8.5	606	13	4.6	80	3.5	15	137	9.1	55	--	0.8	.2	--	251	53
10/06/64 5803				.68	.38	3.49	.09	.52	2.25	.19	1.56					250	0
5703				15	8	75	2	12	50	4	35						
27S/26E-27A01 M	--	8.2	571	43	8.1	65	14	3.6	95	23	125	--	0.2	.1	--	358	143
05/12/65 5803				2.18	.67	2.85	.36	.12	1.56	.48	3.54					330	59
5703				36	11	47	6	2	27	8	62						
27S/26E-27R01 M	74.0F	8.3	1850	248	38	51	5.5	0.0	154	128	409	58	--	.0	--	1660	777
10/02/64 5050				12.38	3.12	2.22	.14	.00	2.53	2.66	11.53	.93				1013	651
1110 5050				69	17	12	1		14	15	65	5					
27S/26E-27R01 M	--	7.5	2500	234	46	62	4.7	0.0	218	147	411	--	0.0	.0	--	1017	779
10/06/64 5803				11.72	3.85	2.71	.12	.00	3.58	3.07	11.60					1014	600
5703				64	21	15	1		20	17	64						

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
28S/22E-16N01 M	75.0F	7.7	700	36	30	71	2.0	0.0	203	73	84	0.0	0.8	.5	--	--	212
04/21/65 5050				1.80	2.47	3.09	.05	.00	3.33	1.52	2.37	.00				397	46
1530 5640				24	33	42	1		46	21	33						
28S/22E-22001 M	--	7.6	539	14	3.9	86	1.8	0.0	48	41	112	1.1	--	.2	--	358	51
08/11/65 5050			530	.70	.32	3.74	.05	.00	.79	.85	3.16	.02				284	12
1530 5050				15	7	78	1		16	18	66						
28S/22E-25K01 M	66.0F	8.3	1080	76	18	141	14	0.0	243	286	61	0.5	--	.5	--	761	264
08/11/65 5050			1068	3.79	1.49	6.13	.36	.00	3.99	5.95	1.72	.01				716	65
1510 5050				32	13	52	3		34	51	15						
28S/22E-26J02 M	70.0F	8.5	642	38	1.5	100	0.8	4.0	123	121	63	0.6	--	.3	--	401	101
08/11/65 5050			671	1.90	.12	4.35	.02	.13	2.02	2.52	1.78	.01				389	0
1430 5050				30	2	68		2	31	39	28						
28S/22E-28J01 M	70.0F	8.2	4600	48	12	1070	5.0	0.0	413	910	847	0.0	1.0	6.4	--	2890	170
04/22/65 5050				2.40	.99	46.55	.13	.00	6.77	18.93	23.89	.00				3102	0
1530 5640				5	2	93			14	38	48						
28S/22E-35P01 M	71.0F	7.1	636	16	1.0	101	1.2	0.0	31	106	96	1.9	--	.2	--	390	44
10/09/64 5050				.80	.08	4.39	.03	.00	.51	2.20	2.71	.03				338	19
1015 5640				15	2	83	1		9	40	50	1					
28S/22E-35P01 M	68.0F	7.7	730	16	2.9	116	1.7	0.0	29	118	118	1.4	--	.1	--	451	52
04/15/65 5050			636	.80	.24	5.05	.04	.00	.48	2.45	3.33	.02				388	28
1025 5640				13	4	82	1		8	39	53						
28S/23E-C1A01 M	--	8.3	305	5.6	0.0	50	--	0.0	47	--	42	--	--	--	--	--	14
08/12/65 5050			282	.28	.00	2.18		.00	.77		1.18						0
1030 5050																	
28S/23E-C9M01 M	--	8.7	845	28	0.7	128	--	3.0	25	--	158	--	--	--	--	--	73
08/12/65 5050			771	1.40	.06	5.57		.10	.41		4.46						48
1100 5050																	
28S/23E-11C02 M	--	8.4	382	20	0.5	53	--	3.0	82	--	25	--	--	--	--	--	52
08/12/65 5050			349	1.00	.04	2.31		.10	1.34		.71						0
1120 5050																	
28S/23E-12J02 M	--	8.0	4290	551	13	433	2.7	0.0	163	1070	794	39	--	.7	--	3280	1430
08/12/65 5050			3776	27.49	1.07	18.84	.07	.00	2.67	22.26	22.39	.63				2983	1298
1140 5050				58	2	40			6	46	47	1					
28S/23E-34001 M	73.0F	9.3	348	4.9	0.0	60	0.6	11	19	9.9	67	0.6	--	.0	--	195	12
08/11/65 5050			318	.24	.00	2.61	.02	.37	.31	.21	1.89	.01				153	0
1330 5050				8		91	1	13	11	8	68						
28S/27E-C7C01 M	--	8.1	291	2.4	0.0	60	--	0.0	89	--	40	--	--	--	--	--	6
09/16/65 5050				.12	.00	2.61		.00	1.46		1.13						0
1145 5050																	

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
29S/23E-02H01 M	77.0F	8.0	1300	57	1.4	202	0.9	0.0	45	37	364	1.1	--	.2	--	812	148
08/12/65 5050			1247	2.84	.12	8.79	.02	.00	.74	.77	10.26	.02				686	111
1300 5050				24	1	75			6	7	87						
29S/23E-03LC1 M	68.0F	8.2	1520	78	3.8	242	1.4	0.0	169	297	203	2.2	--	.6	--	924	210
08/11/65 5050			1396	3.89	.31	10.53	.04	.00	2.77	6.18	5.72	.04				911	72
1330 5050				26	2	71			19	42	39						
29S/23E-04A01 M	77.0F	8.0	1270	65	8.8	195	1.3	0.0	206	297	110	0.7	--	.5	--	802	198
10/09/64 5050				3.24	.72	8.48	.03	.00	3.38	6.18	3.10	.01				779	29
1100 5640				26	6	68			27	49	24						
29S/23E-04A01 M	59.0F	--	1200	--	--	192	--	--	--	--	105	--	--	--	--	--	--
04/15/65 5050			1270			8.35					2.96						
1005 5640																	
29S/23E-05D01 M	--	8.6	424	20	0.5	71	0.5	4.0	114	80	19	0.7	--	.2	--	274	52
08/11/65 5050			417	1.00	.04	3.09	.01	.13	1.87	1.66	.54	.01				252	0
1415 5050				24	1	75		3	44	39	13						
29S/23E-07G01 M	68.0F	6.8	3740	219	22	522	3.4	0.0	114	485	854	0.9	--	2.6	--	2310	636
10/12/64 5050				10.93	1.81	22.71	.09	.00	1.87	10.09	24.08	.01				2165	543
1415 5640				31	5	64			5	28	67						
29S/23E-07G01 M	68.0F	--	3520	--	--	540	--	--	--	--	729	--	--	2.3	--	--	--
04/20/65 5050			3740			23.49					20.56						
1500 5640																	
29S/23E-08R01 M	67.0F	7.2	1080	111	19	94	2.5	0.0	251	288	48	1.1	--	.5	--	731	354
10/12/64 5050				5.54	1.56	4.09	.06	.00	4.12	5.99	1.35	.02				687	148
1400 5640				49	14	36	1		36	52	12						
29S/23E-08R03 M	66.0F	8.3	1620	182	23	125	3.0	0.0	160	491	137	1.3	--	.6	--	1130	548
08/28/65 5050				9.08	1.89	5.44	.08	.00	2.62	10.21	3.86	.02				1041	417
0915 5640				55	11	33			16	61	23						
29S/23E-14H01 M	73.0F	7.9	1200	68	2.6	178	1.0	0.0	130	261	137	1.1	--	.4	--	736	180
10/12/64 5050				3.39	.21	7.74	.03	.00	2.13	5.43	3.86	.02				713	74
1445 5640				30	2	68			19	47	34						
29S/23E-14H01 M	62.0F	8.2	1560	95	6.0	228	1.4	0.0	144	328	203	1.4	--	.6	--	980	262
04/15/65 5050			1200	4.74	.49	9.92	.04	.00	2.36	6.82	5.72	.02				934	144
1545 5640				31	3	65			16	46	38						
29S/23E-14H01 M	--	8.5	1400	82	3.0	206	--	6.0	130	--	174	--	--	--	--	--	217
08/11/65 5050			1265	4.09	.25	8.96		.20	2.13		4.91						101
1500 5050																	
29S/23E-17G01 M	66.0F	8.3	721	49	11	82	--	0.0	128	--	36	--	--	--	--	--	171
08/28/65 5050				2.45	.97	3.57		.00	2.10		1.02						66
0845 5640																	

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
29S/23E-20H01 M	72.0F	7.6	777	48	9.5	89	1.3	0.0	82	156	90	0.3	--	.4	--	481	159
10/22/64 5050				2.40	.78	3.87	.03	.00	1.34	3.24	2.54	.00				435	92
1500 5640				34	11	55			19	46	36						
29S/23E-20H01 M	73.0F	7.0	970	68	22	118	2.0	0.0	77	206	167	0.0	0.4	.4	--	--	262
04/21/65 5801			777	3.39	1.81	5.13	.05	.00	1.26	4.28	4.71	.00				622	199
1415 5640				33	17	49			12	42	46						
29S/23E-22K01 M	68.0F	8.6	458	35	3.8	60	0.9	6.0	119	62	42	0.5	--	.2	--	307	103
08/11/65 5050			451	1.75	.31	2.61	.02	.20	1.95	1.29	1.18	.01				259	0
1515 5050				37	7	56		4	42	28	25						
29S/23E-26J02 M	68.0F	8.3	990	78	19	110	1.7	0.0	100	303	80	0.6	--	.4	--	718	276
08/12/65 5050			671	3.89	1.63	4.79	.04	.00	1.64	6.30	2.26	.01				642	194
0900 5050				38	16	46			16	62	22						
29S/23E-34A01 M	72.0F	7.3	787	56	6.9	84	1.3	0.0	55	217	67	0.3	--	.3	--	502	168
10/22/64 5050				2.79	.57	3.65	.03	.00	.90	4.51	1.89	.00				460	123
1445 5640				40	8	52			12	62	26						
29S/29E-32L02 M	87.0F	8.6	840	--	--	150	3.3	6.0	216	--	119	1.5	0.2	.2	--	--	76
05/18/65 5050						6.53	.08	.20	3.54		3.36	.02					0
1000 5050																	
29S/29E-32M02 M	81.0F	8.2	606	--	--	90	4.4	0.0	334	--	27	1.2	0.2	.2	--	--	122
05/18/65 5050						3.92	.11	.00	5.48		.76	.02					0
1010 5050																	
30S/23E-01C03 M	72.0F	7.3	699	16	0.2	118	0.4	0.0	31	32	165	0.3	--	.4	--	369	41
10/05/64 5050			602	.80	.02	5.13	.01	.00	.51	.67	4.65	.00				347	16
1525 5640				13		86			9	11	80						
30S/23E-01C03 M	66.0F	--	694	--	--	123	--	--	--	--	164	--	--	--	--	--	--
04/15/65 5050			699			5.35					4.62						
1505 5640																	
30S/24E-05A01 M	68.0F	7.5	1080	111	20	95	2.9	0.0	252	302	39	0.2	--	.5	--	727	362
10/05/64 5050				5.54	1.64	4.13	.07	.00	4.13	6.28	1.10	.00				694	156
1555 5640				49	14	36	1		36	55	10						
30S/24E-05A01 M	68.0F	8.2	1120	117	26	96	--	0.0	266	--	42	--	--	--	--	--	400
06/30/65 5050			1014	5.84	2.16	4.18		.00	4.36		1.18						182
1300 5640																	
30S/24E-08G01 M	70.0F	7.3	2500	--	--	355	--	--	--	--	403	--	--	--	--	--	--
10/05/64 5050			2410			15.44					11.36						
1450 5640																	
30S/24E-14H01 M	70.0F	7.6	831	100	--	71	--	0.0	127	267	23	--	--	--	--	--	--
10/05/64 5050			762	4.99		3.09		.00	2.08	5.55	.65						
1410 5640																	

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
30S/24E-14H01 M	70.0F	--	831	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/16/65 5050			831														
1345 5640																	
30S/28E-03G01 M	--	8.0	1024	37	30	118	7.1	0.0	168	104	129	76	--	.3	--	626	217
12/17/64 5050		7.2		1.85	2.47	5.13	.18	.00	2.76	2.16	3.64	1.22				584	79
0900 5050				19	26	53	2		28	22	37	12					
30S/28E-04F01 M	--	7.9	1025	95	22	75	6.4	0.0	162	98	127	99	--	.2	--	719	328
12/17/64 5050		7.3		4.74	1.81	3.26	.16	.00	2.66	2.04	3.58	1.59				602	195
1215 5050				48	18	33	2		27	21	36	16					
30S/28E-08R01 M	--	7.6	366	28	6.6	34	3.0	0.0	164	21	10	9.9	--	.2	--	210	100
12/17/64 5050		7.8		1.40	.54	1.48	.08	.00	2.69	.44	.28	.16				193	0
0955 5050				40	15	42	2		75	12	8	4					
30S/28E-11J01 M	--	8.3	527	43	10	53	4.7	0.0	196	38	41	3.3	--	.1	--	314	145
12/17/64 5050		7.8		2.15	.82	2.31	.12	.00	3.21	.79	1.16	.05				289	0
1525 5050				40	15	43	2		62	15	22	1					
30S/28E-16N01 M	--	8.3	670	57	16	60	4.6	0.0	226	59	43	32	--	.2	--	404	206
12/17/64 5050		7.8		2.84	1.32	2.61	.12	.00	3.71	1.23	1.21	.52				383	21
1020 5050				41	19	38	2		56	18	18	8					
30S/28E-17H01 M	--	7.5	401	36	7.0	29	2.8	0.0	130	52	14	2.5	--	.1	--	233	119
12/17/64 5050		7.5		1.80	.58	1.26	.07	.00	2.13	1.08	.39	.04				207	13
1000 5050				49	16	34	2		59	30	11	1					
30S/28E-17L01 M	--	8.0	326	27	5.5	27	2.5	0.0	123	29	16	0.7	--	.2	--	190	90
12/17/64 5050		8.0		1.35	.45	1.17	.06	.00	2.02	.60	.45	.01				168	0
1019 5050				45	15	33	2		66	19	15						
30S/28E-17L03 M	--	7.4	269	28	4.8	21	2.5	0.0	126	20	9.2	1.6	--	.1	--	148	90
12/17/64 5050		7.5		1.40	.39	.91	.06	.00	2.07	.42	.26	.03				149	0
1005 5050				51	14	33	2		74	15	9	1					
30S/28E-20B01 M	--	8.1	419	35	7.2	37	2.4	0.0	143	46	25	1.6	--	.2	--	256	117
12/17/64 5050		7.7		1.75	.59	1.61	.06	.00	2.35	.96	.71	.03				224	0
1030 5050				44	15	40	1		58	24	18	1					
30S/28E-21M02 M	--	8.1	1137	36	46	125	6.3	0.0	204	218	125	0.1	--	.6	--	738	280
12/17/64 5050		7.2		1.80	3.78	5.44	.16	.00	3.35	4.53	3.53	.00				657	113
1040 5050				16	34	49	1		29	40	31						
30S/28E-23J01 M	--	8.3	440	28	6.3	56	4.5	0.0	175	45	20	0.2	--	.2	--	259	96
12/17/64 5050		7.8		1.40	.52	2.44	.12	.00	2.87	.94	.56	.00				246	0
1540 5050				31	12	54	3		66	22	13						
30S/28E-28A03 M	--	8.3	701	45	16	77	4.4	0.0	190	67	75	10	--	.2	--	431	176
12/17/64 5050		7.5		2.25	1.32	3.35	.11	.00	3.12	1.39	2.12	.16				388	20
1155 5050				32	19	48	2		46	20	31	2					

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STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
30S/28E-28D01 m	--	7.6	983	50	31	99	5.6	0.0	192	160	110	0.8	--	.5	--	581	252
12/17/64 5050		7.1		2.50	2.55	4.31	.14	.00	3.15	3.33	3.10	.01				551	95
1045 5050				26	27	45	1		33	35	32						
30S/28E-28D02 M	--	8.1	682	22	22	89	4.2	0.0	242	85	40	0.7	--	.4	--	365	143
12/17/64 5050		7.8		1.10	1.81	3.87	.11	.00	3.97	1.77	1.13	.01				382	0
1120 5050				16	26	56	2		58	26	16						
30S/28E-28D03 M	--	7.7	491	44	11	41	3.4	0.0	230	34	16	7.0	--	.2	--	268	156
12/17/64 5050		7.4		2.20	.90	1.78	.09	.00	3.77	.71	.45	.11				269	0
1115 5050				44	18	36	2		75	14	9	2					
30S/28E-29B02 M	--	8.2	407	34	8.0	39	3.1	0.0	158	41	20	1.4	--	.1	--	258	117
12/17/64 5050		7.6		1.70	.66	1.70	.08	.00	2.59	.85	.56	.02				224	0
1100 5050				41	16	41	2		64	21	14						
30S/28E-29C01 M	--	7.5	264	27	4.5	21	1.8	0.0	122	19	11	0.7	--	.1	--	152	86
12/17/64 5050		7.8		1.35	.37	.91	.05	.00	2.00	.40	.31	.01				145	0
1105 5050				50	14	34	2		74	15	11						
30S/28E-29H01 M	--	8.1	489	43	14	38	3.1	0.0	186	40	23	21	--	.1	--	312	164
12/17/64 5050		7.4		2.15	1.15	1.65	.08	.00	3.05	.83	.65	.34				273	12
1050 5050				43	23	33	2		63	17	13	7					
30S/29E-03K02 M	80.0F	8.3	549	--	--	81	--	0.0	301	--	23	2.1	0.2	.2	--	--	108
05/18/65 5050						3.52		.00	4.94		.65	.03					0
0845 5050																	
30S/29E-04H01 M	80.0F	8.4	927	--	--	99	5.6	4.0	264	--	78	30	0.2	.1	--	--	241
05/18/65 5050						4.31	.14	.13	4.33		2.20	.48					18
0830 5050																	
30S/29E-04Q01 M	77.0F	8.3	503	--	--	59	4.4	0.0	234	--	20	1.0	0.3	.1	--	--	120
05/18/65 5050						2.57	.11	.00	3.84		.56	.02					0
0900 5050																	
30S/29E-09H01 M	74.0F	7.6	745	--	--	59	--	0.0	258	--	57	9.8	0.3	.1	--	--	237
05/18/65 5050						2.57		.00	4.23		1.61	.16					26
0905 5050																	
30S/29E-19K01 M	73.0F	8.7	635	--	--	44	--	10	190	--	60	4.0	--	.1	--	--	218
05/17/65 5050						1.91		.33	3.12		1.69	.06					46
1230 5050																	
30S/29E-20A01 M	72.0F	8.6	855	--	--	52	--	10	206	--	68	38	--	.2	--	--	327
05/17/65 5050						2.26		.33	3.38		1.92	.61					142
1315 5050																	
30S/29E-20L01 M	75.0F	8.6	593	--	--	43	--	6.0	222	--	38	11	--	.1	--	--	193
05/17/65 5050						1.87		.20	3.64		1.07	.18					1
1245 5050																	

TABLE E-2
ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
30S/29E-21C01	M	72.0F	8.3	1140	--	--	61	--	0.0	215	--	98	139	--	.1	--	--	433
05/17/65	5050						2.65		.00	3.53		2.76	2.24					257
1330	5050																	
30S/29E-22A01	M	79.0F	8.1	903	--	--	75	--	0.0	246	--	76	1.4	--	.7	--	--	284
05/17/65	5050						3.26		.00	4.03		2.14	.02					83
1345	5050																	
30S/29E-22J01	M	76.0F	8.2	976	--	--	66	--	0.0	353	--	70	38	--	.8	--	--	352
05/17/65	5050						2.87		.00	5.79		1.97	.61					63
1400	5050																	
30S/29E-22L01	M	74.0F	8.5	935	--	--	54	--	8.0	183	--	62	131	--	.1	--	--	334
05/17/65	5050						2.35		.27	3.00		1.75	2.11					171
1410	5050																	
30S/29E-24N01	M	72.0F	8.1	738	--	--	54	--	0.0	197	--	57	1.2	--	.4	--	--	239
05/17/65	5050						2.35		.00	3.23		1.61	.02					78
1500	5050																	
30S/29E-24P01	M	75.0F	8.1	748	--	--	53	--	0.0	226	--	71	1.7	--	.3	--	--	243
05/17/65	5050						2.31		.00	3.71		2.00	.03					58
1445	5050																	
30S/30E-19C01	M	71.0F	8.2	805	--	--	55	--	0.0	247	--	35	1.5	--	.1	--	--	294
05/17/65	5050						2.39		.00	4.05		.99	.02					92
1515	5050																	
31S/28E-14P01	M	--	7.8	3240	--	--	308	--	0.0	297	--	538	--	--	6.1	--	--	1010
05/17/65	5050						13.40		.00	4.87		15.17						767
0730	5050																	
31S/28E-14P02	M	70.0F	7.9	2640	--	--	220	--	0.0	258	--	388	--	--	2.4	--	--	948
05/17/65	5050						9.57		.00	4.23		10.94						737
0745	5050																	
31S/28E-22C01	M	67.0F	8.2	2560	--	--	298	--	0.0	258	--	460	--	--	1.8	--	--	630
05/17/65	5050						12.96		.00	4.23		12.97						419
0710	5050																	
31S/28E-22D01	M	--	8.1	4620	--	--	415	--	0.0	246	--	1070	--	--	1.2	--	--	1430
05/17/65	5050						18.05		.00	4.03		30.17						1229
0700	5050																	
31S/28E-28A01	M	71.0F	8.1	444	--	--	55	--	0.0	113	--	45	--	--	.1	--	--	80
05/17/65	5050						2.39		.00	1.85		1.27						0
0810	5050																	
31S/29E-16C01	M	70.0F	8.2	748	--	--	55	--	0.0	223	--	42	39	--	.2	--	--	268
05/17/65	5050						2.39		.00	3.66		1.18	.63					85

TABLE E-2

ANALYSIS OF GROUND WATER

STATE WELL NUMBER DATE TIME	LAB SAMPLER	TEMP	LAB-PH FLD-PH	LAB-EC FLD-EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
31S/29E-27C01 M 05/17/65 0910	5050	--	8.2	1120	--	--	128 5.57	--	0.0 .00	206 3.38	--	117 3.30	42 .68	--	1.0	--	--	267 98
31S/29E-27N01 M 05/17/65 0930	5050 5050	72.0F	8.2	1350	--	--	125 5.44	--	0.0 .00	197 3.23	--	226 6.37	44 .71	--	.7	--	--	389 228
31S/29E-29C01 M 05/17/65 0830	5050 5050	72.0F	8.9	667	--	--	81 3.52	--	12 .40	145 2.38	--	76 2.14	13 .21	--	.7	--	--	154 15
31S/29E-34K01 M 05/17/65 0915	5050 5050	--	8.4	1470	--	--	148 6.44	--	3.0 .10	133 2.18	--	280 7.90	9.4 .15	--	1.0	--	--	361 247
31S/30E-06L01 M 05/17/65 1100	5050 5050	75.0F	8.5	796	--	--	62 2.70	--	6.0 .20	187 3.07	--	50 1.41	45 .72	--	2.1	--	--	252 89
31S/30E-06Q01 M 05/17/65 1030	5050 5050	76.0F	8.4	898	--	--	78 3.39	--	3.0 .10	207 1.39	--	52 1.47	61 .98	--	2.0	--	--	271 97
31S/30E-07J01 M 05/17/65 1045	5050 5050	74.0F	8.3	500	--	--	56 2.44	--	0.0 .00	133 2.18	--	36 1.02	2.7 .04	--	1.6	--	--	118 9
32S/32E-34G02 M 06/30/65 1400	5050 5050	--	7.7	749	96 4.79 59	31 2.55 32	12 .52 6	8.2 .21 3	0.0 .00	253 4.15 52	165 3.43 43	12 .34 4	0.8 .01	--	.0	--	480 449	369 162
12N/22W-31F01 S 08/13/65 0830	5050 5050	82.0F	8.3	2390	243 12.13 41	98 8.06 27	207 9.00 31	10 .26 1	0.0 .00	117 1.92 7	1160 24.13 83	81 2.28 8	36 .58 2	--	.7	--	2060 1893	1010 915
10N/20W-01H01 S 11/25/64 1000	5050 5050	--	8.2	1910	164 8.18 40	42 3.45 17	202 8.79 42	11 .28 1	0.0 .00	98 1.61 8	840 17.47 85	53 1.49 7	5.9 .09	--	.4	--	1430 1356	581 501
10N/20W-01H01 S 01/05/65 1035	5000 5050	84.0F	8.0	1850	157 7.83 39	42 3.45 17	200 8.70 43	2.3 .06	0.0 .00	100 1.64 8	770 16.02 83	52 1.47 8	14 .23 1	--	1.5	--	1440 1288	564 482
10N/20W-01H01 S 07/30/65 0835	5050 5050	82.0F	8.3	1810	164 8.18 39	42 3.45 17	206 8.96 43	10 .26 1	0.0 .00	100 1.64 8	845 17.58 84	56 1.58 8	14 .23 1	--	.5	--	1520 1387	582 500
10N/19W-06A01 S 03/02/65 1140	5000 5050	72.0F	8.2	1090	52 2.59 21	40 3.29 27	136 5.92 49	9.8 .25 2	0.0 .00	314 5.15 42	294 6.12 50	30 .85 7	4.1 .07 1	--	1.2	27	684 748	292 35

TABLE E-3

ANALYSIS OF TRACE ELEMENTS IN GROUND WATER

State Well Number	Use	Date	Constituents in Micrograms per Liter (ug/l)																	
			Aluminum (Al)	Arsenic (As)	Beryllium (Be)	Bismuth (Bi)	Cadmium (Cd)	Cobalt (Co)	Chromium (Cr)	Copper (Cu)	Iron (Fe)	Gallium (Ga)	Germanium (Ge)	Manganese (Mn)	Molybdenum (Mo)	Nickel (Ni)	Lead (Pb)	Titanium (Ti)	Vanadium (V)	Zinc (Zn)
13S/16E-25C2-M	Irrigation	3/14/65	4.0		< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	< 1.4	2.6	< 5.7	< 0.29	177.	45.	0.40	< 1.4	0.57	1.3	91.
36R3-M	Irrigation	3/14/65	4.0		< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	6.3	2.9	< 5.7	< 0.29	83.	49.	0.46	< 1.4	0.57	3.4	46.
13S/17E-22B1-M	Irrigation	3/14/65	11.		< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	< 1.4	3.4	< 5.7	< 0.29	< 1.4	2.2	0.71	< 1.4	< 0.57	39.	< 5.7
14S/16E- 9A1-M	Irrigation	3/14/65	4.3		< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	< 1.4	27.	< 5.7	1.2	31.	4.6	1.1	< 1.4	< 0.57	< 0.29	< 5.7
27S/26E-27R1-M	Domestic	6/29/65	6.6		< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	< 1.4	2.5	< 5.7	< 0.29	< 1.4	1.9	0.46	< 1.4	< 0.57	5.1	< 5.7
28S/27E- 7C1-M	Dom. & Irr.	7/ 1/65	18.		< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	3.4	2.0	< 5.7	3.7	< 1.4	2.8	0.46	< 1.4	< 0.57	< 0.29	50.
29S/29E-34N1-M	Ind.Irr.Dom.	9/16/65	3.3	220	< 1.3	< 0.67	< 3.3	< 3.3	< 3.3	< 3.3	1300.	< 13.	< 0.67	180.	0.67	0.67	< 3.3	< 1.3	< 0.67	< 13.

> More than the amount indicated.

< Less than the amount indicated.

TABLE E-4

ANALYSES OF MISCELLANEOUS CONSTITUENTS

STATE WELL NUMBER	DATE	Milligrams Per Liter (mg/l)			
		Alkyl-Benzene-Sulfonate (ABS)	Iodine (I) [a]	Pesticides [b]	Phosphates (PO_4)
4S/ 9E-22C1-M	6/24/65	0.3			Ortho 0.77
22C1-M	8/19/65	0.7			Total 0.35
9S/11E-16G1-M	9/14/65		137		
12S/19E-12R1-M	5/19/65			None Detected	
13A1-M	5/19/65			None Detected	
13A1-M	7/ 1/65			DDT - 3	
13A2-M	8/ 6/65			None Detected	
12S/20E-18B1-M	5/27/65			None Detected	
21S/27E-27C2-M	4/21/65	0.9			Total 5.6
27D1-M	4/21/65	0.5			Total 6.5
27D1-M	8/ 3/65	90% ABS 10% LAS [c]			
27F1-M	4/21/65	1.5			Total 1.7
27F1-M	8/ 3/65	100% ABS			
27S/26E-22Q2-M	9/15/65		112		
27R1-M	9/16/65		15		
28S/22E- 4G1-M	8/12/65		1240		
11N1-M	8/12/65		73		
28S/23E-12J2-M	8/12/65		86		
34Q1-M	8/11/65		74		
28S/27E- 7C1-M	9/16/65		23		

a/ Reported in micrograms per liter (ug/l)
b/ Reported in nanograms per liter (ng/l). The constituents reported are the only ones detected in the sample.
c/ Linear alkylate sulfonate (LAS).

TABLE E-4

ANALYSES OF MISCELLANEOUS CONSTITUENTS

STATE WELL NUMBER	DATE	Milligrams Per Liter (mg/l)			
		Alkyl-Benzene-Sulfonate (ABS)	Iodine (I) [a]	Lithium	Phosphates (PO4)
29S/23E- 3L1-M	8/11/65		76		
29S/29S-32L2-M	5/18/65				Total 0.10
32M2-M	5/18/65				Total 1.1
34N1-M	9/16/65		143	0.0	
30S/28E- 3G1-M	12/17/64	0.0			
4P1-M	12/17/64	0.0			
8R1-M	12/17/64	0.0			
11J1-M	12/17/64	0.0			
16N1-M	12/17/64	0.0			
17H1-M	12/17/64	0.0			
17L1-M	12/17/64	0.0			
17L3-M	12/17/64	0.0			
20B1-M	12/17/64	0.0			
21M2-M	12/17/64	0.0			
23J1-M	12/17/64	0.0			
28A3-M	12/17/64	0.0			
28D1-M	12/17/64	0.0			
28D2-M	12/17/64	0.0			
28D3-M	12/17/64	0.0			
29B2-M	12/17/64	0.0			
29C1-M	12/17/64	0.0			
29H1-M	12/17/64	0.0			

TABLE E-4

ANALYSES OF MISCELLANEOUS CONSTITUENTS

STATE WELL NUMBER	DATE	Milligrams Per Liter (mg/l)			
		Alkyl-Benzene-Sulfonate (ABS)	Iodine[a/] (I)		Phosphates (PO4)
30S/29E- 4F1-M	5/18/65				Total 0.98
4Q1-M	5/18/65				Total 0.41
31S/29E-34K1-M	5/17/65	0.0			
12N/22W-31R1-[illegible]	8/13/65		76		

LEGEND

- PRECIPITATION ONLY
- PRECIPITATION AND TEMPERATURE
- PRECIPITATION, TEMPERATURE AND EVAPORATION

TYPE OF GAGE

- NON RECORDING
- RECORDING
- BOTH TYPES
- STORAGE

- DISTRICT BOUNDARY
- HYDROGRAPHIC UNIT BOUNDARY
- MAJOR DRAINAGE BOUNDARY

KEY TO SHEETS

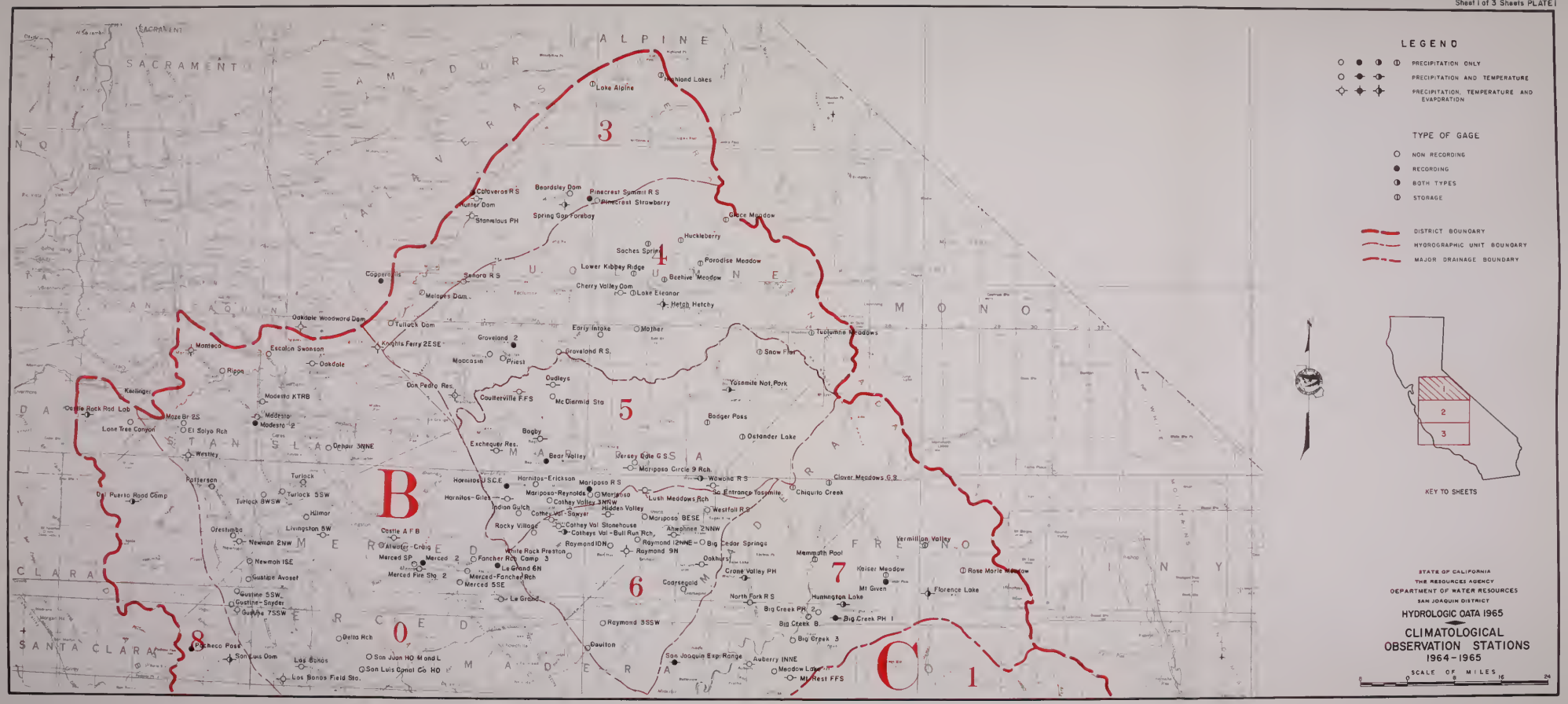
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1965

CLIMATOLOGICAL OBSERVATION STATIONS 1964-1965

SCALE OF MILES

8 0 8 16 24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SCALE OF MILES
ALPINE
SACRAMENTO
AMADOR
CALAVERAS
TUOLUMNE
MONO
MADERA
FRESNO
KINGS
SAN JOAQUIN
STANISLAUS
MERCED
SANTA CLARA
Lake Alpine
Highland Lakes
Calaveras R S
Hunter Dam
Stanislaus PH
Beardsley Dam
Pinecrest Summit R S
Pinecrest Strawberry
Spring Gap Forebay
Glace Meadow
Huckleberry
Soches Spring
Porcelise Meadow
Lower Kibbey Ridge
Beehive Meadow
Cherry Valley Dam
Lake Eleanor
Hetch Hetchy
Copperopolis
Sonora R S
Melones Dam
Oakdale Woodward Dam
Tulloch Dam
Knights Ferry 2ESE
Early Intake
Mather
Tuolumne Meadows
Groveland 2
Groveland R S
Snow Flat
Manteca
Escalon Swanson
Oakdale
Ripon
Moccasin
Priest
Ouddeys
Yosemite Nat. Park
Keelinger
Don Pedro Res.
Coulterville F F S
McClermid Sta
Castle Rock Rod Lab
Maze Br 2S
Modesto KTRB
Modesto
Modesto 2
Lone Tree Canyon
El Solyo Rch
Badger Pass
Ostander Lake
Bogby
Exchequer Res.
Bear Valley
Westley
Denair 3NNE
Jersey Edge G S S
Mariposa Circle 9 Rch.
Patterson
Turlock
Hornitos U S C E
Hornitos-Erickson
Mariposa R S
Wawona R S
Clover Meadows G S
Del Puerto Road Camp
Turlock 8WSW
Turlock 5SW
Hornitos-Giles
Mariposa-Reynolds
Mariposa
Lush Meadows Rch
So. Entrance Yosemite
Chiquito Creek
Hilmar
Indian Gulch
Cathey Val-Sawyer
Cathey Valley 3NNW
Hidden Valley
Westfall R S
Livingston 8W
Rocky Village
Cathey Val Stonehouse
Mariposa 8ESE
Ahwahnee 2NNW
Orestimba
Castle A F B
Raymond 10N
Raymond 12NNE
Big Cedar Springs
Vermillion Valley
Newman 2NW
Atwater-Craig
Raymond 9N
Newman 1SE
Merced SP
Merced 2
Fancher Rch. Camp 3
White Rock Preston
Oakhurst
Memmoth Pool
Gustine Avoset
Merced Fire Stg 2
Merced-Fancher Rch
Le Grand 6N
Crane Valley PH
Kaiser Meadow
Rose Marie Meadow
Gustine SSW
Merced 5SE
Coarsegold
Mt Given
Florence Lake
Gustine-Snyder
Le Grand
North Fork R S
Huntington Lake
Gustine 7SSW
Big Creek PH 2
Big Creek PH 1
Raymond 3SSW
Big Creek B
Delta Rch
Big Creek 3
Pacheco Pass
San Luis Dam
Gauiton
San Joaquin Expt Range
Auberry 1NNE
Las Banos
San Luis Canal Co HO
San Juan HO M and L
Meadow Lake
Mt Rest F F S
Los Banos Field Sta.
1
2
3
4
5
6
7
8
B
C
D
E

LEGEND

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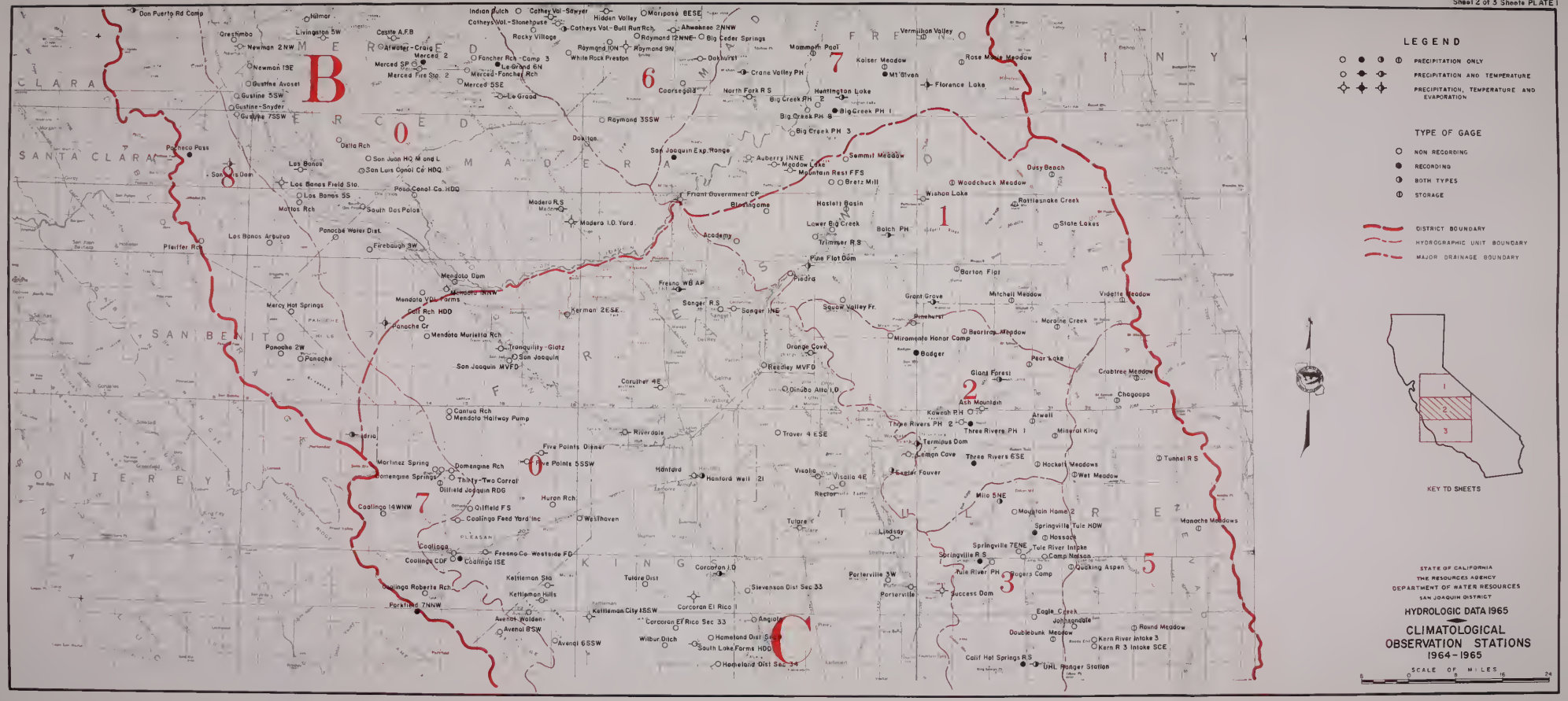
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CLARA
SANTA CLARA
SAN BENITO
MONTEREY
MADERA
FRESNO
TULARE
KINGS
Don Puerto Rd Camp
Gilmor
Gilroy
Livingston 5W
Castle A.F.B
Atwater-Craig
Merced 2
Merced SP
Merced Fire Sta 2
Newman 2NW
Newman 19E
Gustine Avoset
Gustine 5SW
Gustine-Snyder
Gustine 7SSW
Indian Ditch
Cathey Val-Sawyer
Cathey Val-Stonehouse
Cathey Val-Bull Run Rch
Hidden Valley
Mariposa 6ESE
Ahwahnee 2NNW
Raymond 12NNE
Big Cedar Springs
Rocky Village
Raymond 10N
Raymond 9N
White Rock Preston
Fancher Rch-Camp 3
Le Grand 6N
Merced-Fancher Rch
Merced 5SE
Le Grand
Coarsegold
Oakhurst
Crane Valley PH
North Fork R S
Huntington Lake
Big Creek PH 2
Big Creek PH 1
Big Creek PH 8
Big Creek PH 3
Mammoth Pool
Vermilion Valley
Kaiser Meadow
Mt Olven
Florence Lake
Rose Meadow
Raymond 3SSW
Dorton
San Joaquin Exp. Range
Auberry 1NNE
Meadow Lake
Mountain Rest FFS
Sommit Meadow
Bretz Mill
Dusy Beach
Woodchuck Meadow
Wishon Lake
Rattlesnake Creek
State Lakes
Friant Government CP
Bloomgome
Hoskell Basin
Lower Big Creek
Balch PH
Trimmer R S
Fine Flat Dam
Piedra
Academy
Fresno WB AP
Sanger R S
Sanger 1NE
Squaw Valley Fr.
Grant Grove
Barton Flat
Mitchell Meadow
Vidette Meadow
Moraine Creek
Pinehurst
Miramonte Honor Camp
Beartrap Meadow
Badger
Orange Cove
Reedley MVFD
Dinuba Alto I.D
Giant Forest
Pear Lake
Crabtree Meadow
Chagoopa
Ash Mountain
Kaweah PH
Three Rivers PH 2
Three Rivers PH 1
Three Rivers 6SE
Atwell
Mineral King
Tunnel R S
Hockett Meadows
Wet Meadow
Lemon Cove
Cedar Fouver
Visalia
Visalia 4E
Rector
Tulare
Lindsay
Milo 5NE
Mountain Home 2
Springville Tule HDW
Hossack
Springville 7ENE
Tule River Intake
Camp Nelson
Springville R S
Tule River PH
Rogers Camp
Cucking Aspen
Porterville 3W
Porterville
Success Dam
Eagle Creek
Johnsondale
Doublebunk Meadow
Round Meadow
Kern River Intake 3
Kern R 3 Intake SCE
Calif Hot Springs R S
UHL Ranger Station
Monache Meadows
Pacheco Pass
Santa Ana Dam
Los Banos
Los Banos Field Sta.
Los Banos SS
Mattos Rch
Los Banos Arburua
Pfeiffer Rch
Delta Rch
San Luis Canal Co HDQ
Poso Canal Co. HDQ
South Dos Palos
Panoche Water Dist.
Firebaugh SW
Madera R S
Madera I.D. Yard
Mendota Dam
Mercy Hot Springs
Mendota Vdl. Farms
Coll Rch HDD
Panoche Cr
Mendota Murietta Rch
Panoche 2W
Panoche
Tranquility-Glatz
San Joaquin
San Joaquin MVFD
Kerman 2ESE
Coruthers 4E
Cantua Rch
Mendota Halfway Pump
Riverdale
Traver 4 ESE
Five Points Dinner
Five Points 5SSW
Hanford
Hanford Well 21
Martinez Spring
Domengine Rch
Domengine Springs
Thirty-Two Corral
Oilfield Joaquin RDG
Oilfield F S
Coalinga 14WNW
Coalinga Feed Yard Inc
Huron Rch
Westhaven
Coalinga
Coalinga CDF
Coalinga 1SE
Fresno Co. Westside FD
Coalinga Roberts Rch
Parkfield 7NNW
Kettleman Sta
Kettleman Hills
Kettleman City 1SSW
Avenal-Wolden
Avenal 8SW
Avenal 6SSW
Tulare Dist
Corcoran I.D
Corcoran El Rico
Corcoran El Rico Sec 33
Wilbur Ditch
Angiola
Homeland Dist Sec 3
South Lake Farms HDQ
Homeland Dist Sec 34
Stevenson Dist Sec 33
B
0
6
7
8
0
7
C
1
2
3
5

LEGEND

PRECIPITATION ONLY

PRECIPITATION AND TEMPERATURE

PRECIPITATION, TEMPERATURE AND EVAPORATION

TYPE OF GAGE

NON RECORDING

RECORDING

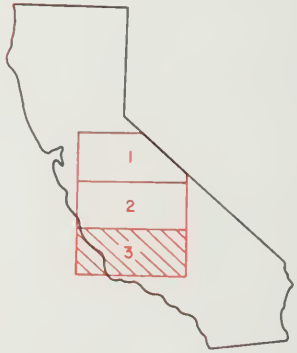
BOTH TYPES

STORAGE

DISTRICT BOUNDARY

HYDROGRAPHIC UNIT BOUNDARY

MAJOR DRAINAGE BOUNDARY



KEY TO SHEETS

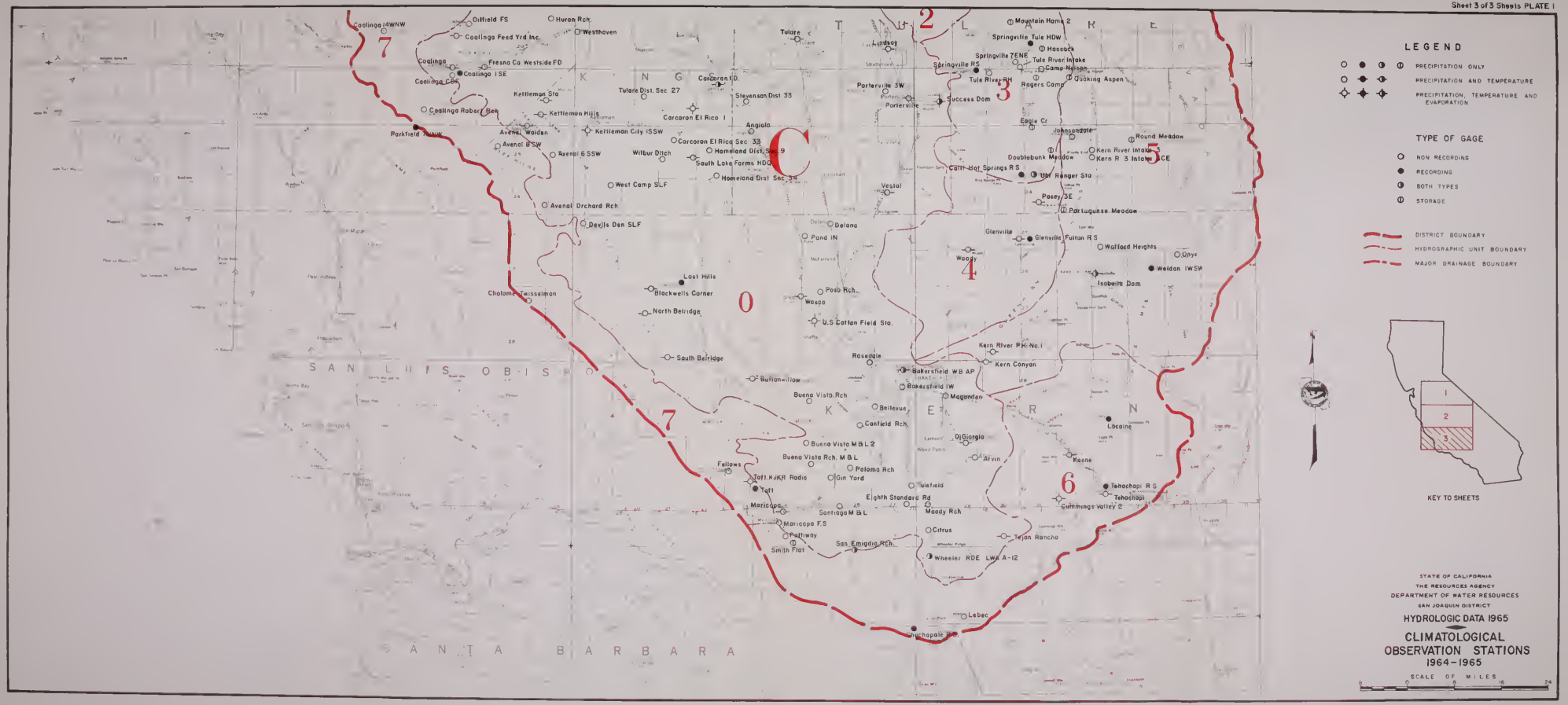
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1965

CLIMATOLOGICAL OBSERVATION STATIONS 1964-1965

SCALE OF MILES

8 0 8 16 24


LEGEND
PRECIPITATION ONLY
PRECIPITATION AND TEMPERATURE
PRECIPITATION, TEMPERATURE AND EVAPORATION
TYPE OF GAGE
NON RECORDING
RECORDING
BOTH TYPES
STORAGE
DISTRICT BOUNDARY
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CLIMATOLOGICAL OBSERVATION STATIONS 1964-1965
SCALE OF MILES
SAN LUIS OBISPO
SANTA BARBARA
Coalinga 14WNW
Oilfield FS
Huron Rch.
Westhaven
Coalinga Feed Yrd Inc.
Coalinga
Fresno Co Westside FD
Coalinga 1SE
Coalinga Cos
Kettleman Sta
Coalinga Robertson
Kettleman Hills
Parkfield Pumps
Avenal Waldon
Avenal 8SW
Avenal 6SSW
Kettleman City 1SSW
Wilbur Ditch
West Camp SLF
Avenal Orchard Rch
Devils Den SLF
Cholame Twisselman
Lost Hills
Blackwells Corner
North Belridge
South Belridge
Button-Willow
Buena Vista Rch
Fellows
Taft KJKR Radio
Taft
Maricopa
Maricopa F.S
Pathway
Smith Flat
Tulare Dist. Sec 27
Corcoran I.D.
Stevenson Dist 33
Corcoran El Rico 1
Angiola
Corcoran El Rico Sec 33
Homeland Dist. Sec 9
South Lake Farms HDQ
Homeland Dist. Sec 34
Tulare
Lindsay
Porterville 3W
Porterville
Delano
Pond 1N
Wasco
Posb Rch.
U.S. Cotton Field Sta.
Rosedale
Bakersfield WB AP
Bakersfield 1W
Magunden
Bellevue
Canfield Rch.
Buena Vista M&L 2
Buena Vista Rch. M&L
Palomo Rch
Gin Yard
Bakersfield
Eighth Standard Rd
Santiago M&L
Maody Rch
Citrus
San Emigdio Rch.
Wheeler RDE LWA A-12
Lebec
Tuchapoie Rch
Mountain Home 2
Springville Tule HDW
Hassock
Springville 7ENE
Tule River Intake
Camp Nelson
Springville RS
Tule River RH
Rogers Camp
Quaking Aspen
Success Dam
Eagle Cr
Johnsondale
Round Meadow
Kern River Intake 3
Kern R 3 Intake SCE
Doublebunk Meadow
Cattle Hot Springs RS
Ubehebe Ranger Sta
Pasey 3E
Portuguese Meadow
Vestal
Glenville
Glenville Fulton RS
Woody
Walford Heights
Onyx
Weldon 1WSW
Isabella Dam
Kern River PH No. 1
Kern Canyon
Di Giorgio
Arvin
Lacaine
Kaene
Tehachapi RS
Tehachapi
Cummings Valley 2
Tejon Rancho
0
1
2
3
4
5
6
7

PLATE 2

LEGEND
LINE OF EQUAL PRECIPITATION
DRAINAGE AREA BOUNDARY LINE WITHIN SAN JOAQUIN DISTRICT
HYDROGRAPHIC UNIT BOUNDARY LINE
NOTE
ISOLINE ARE DRAWN THROUGH POINTS OF EQUAL VALUE. CAUTION SHOULD BE TAKEN IN INTERPOLATING, PARTICULARLY IN MOUNTAINOUS AREAS
BAKERSFIELD
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
ISOHYETAL MAP
MEAN SEASONAL PRECIPITATION
JULY 1915 TO JUNE 1965
SCALE OF MILES
8 0 8 16 24

LEGEND
LINE OF EQUAL PRECIPITATION
DRAINAGE AREA BOUNDARY LINE WITHIN SAN JOAQUIN DISTRICT
HYDROGRAPHIC UNIT BOUNDARY LINE
NOTE
ISOLINE ARE DRAWN THROUGH POINTS OF EQUAL VALUE CAUTION SHOULD BE TAKEN IN INTERPOLATING, PARTICULARLY IN MOUNTAINOUS AREAS
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
ISOHYETAL MAP
MEAN SEASONAL PRECIPITATION
JULY 1915 TO JUNE 1965
SCALE OF MILES
8 0 8 16 24

LEGEND
MEAN ANNUAL PRECIPITATION FOR 50 YEAR PERIOD 1915 - 1965
PRECIPITATION DISTRIBUTION IN PERCENT OF MEAN JULY 1, 1964 TO JUNE 30, 1965.
DRAINAGE AREA BOUNDARY LINE WITHIN SAN JOAQUIN DISTRICT
HYDROGRAPHIC UNIT BOUNDARY LINE
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
ISOPERCENTUAL MAP
SEASONAL PRECIPITATION IN PER CENT OF
1915 - 1965 NORMAL
SCALE OF MILES
8 0 8 16 24

LEGEND
MEAN ANNUAL PRECIPITATION FOR 50 YEAR PERIOD 1915-1965
PRECIPITATION DISTRIBUTION IN PERCENT OF MEAN JULY 1, 1964 TO JUNE 30, 1965.
DRAINAGE AREA BOUNDARY LINE WITHIN SAN JOAQUIN DISTRICT
HYDROGRAPHIC UNIT BOUNDARY LINE
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
ISOPERCENTUAL MAP
SEASONAL PRECIPITATION IN PER CENT OF
1915 - 1965 NORMAL
SCALE OF MILES
8 0 8 16 24

LEGEND

SURFACE WATER MEASUREMENT STATIONS

SURFACE WATER QUALITY SAMPLING STATIONS

SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS

DISTRICT BOUNDARY

HYDROGRAPHIC UNIT BOUNDARY

MAJOR DRAINAGE BOUNDARY

San Joaquin
B00420 Mari
0435 East
3105 Stan
*3115
3125
3145
3175
*4105 Tuol
4120
4130 Dry
*4150 Tuol
4165
4175
5138 Merc
5155
5170
5570 Bear
6170 Owen
*7020 San
*7040
7060
7070
*7080
*7200
*7250
7300
*7375
7400
7575
8720 Ores

San Joaquin
B00475 Salt
5125 Merc

Stanislaus R
B32150 Stan

Tuolumne Riv
B41100 Tuol

* Also
** Flow
NOTE: Due t
refer

KEY TO SHEETS

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1965

LOCATION OF SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS

SCALE OF MILES
6 0 6 12

HYDROGRAPHIC AREA 8

Surface Water Measurement Stations

San Joaquin Valley River

8 1420 Mariposa Bypass near [illegible] Ranch
1415 Santanella Bypass near Ballico
1415 Stanislaus River near Melones
*1410 at Knights Ferry
1410 at Ripon
1410 at Riverbank
1410 at Orange Blossom Bridge
*4 0 Tuolumne River at Tuolumne City
4 0 at Modesto
4 0 Dry Creek near Modesto
*4 0 Tuolumne River at Hickman Bridge
0 5 at Roberts Ferry Bridge
0 5 at LaGrange Bridge
1 0 Merced River near Livingston
1 at Cressey
1 below Shaffers
Bear Creek below Bear Reservoir
4 Owens Creek below Owens Reservoir
*3 0 San Joaquin River near Newman
*3 0 at Maze Road Bridge
3 0 at Delta-Mendota Aqueduct Crossing
at West Stanislaus I. D. Intake
*3 0 at Grayson
*3 at Patterson Bridge
*3 at Crows Landing Bridge
near Newman
*3 0 at Fremont Ford Bridge
near Stevinson
above Sand Slough
*2 Orestimba Creek near Crows Landing

Merced River

8 1200 Maxwell Creek near [illegible]
26 0 North Fork Merced River near Cowell
5400 Bear Creek near Catheys Valley
6100 Burns Creek below Burns Reservoir
6400 near Mariposa

Fresno - Chowchilla Rivers

8 1210 Mariposa Creek below Mariposa Reservoir
2400 near Catheys Valley
*4200 Chowchilla River near Raymond
4200 Striped Rock Creek near Raymond
4310 West Fork Chowchilla River near Mariposa
4310 Middle Fork Chowchilla River near Bootjacksee
4400 East Fork Chowchilla River near Ahwahnee
7100 Nisenan Creek near Oakhurst
7325 Lewis Fork Fresno River near Oakhurst
7920 Big Creek Diversion near Fish Camp

Sacramento - San Joaquin Delta

*8 5 1925 Delta-Mendota Canal near Tracy

Surface Water Quality Sampling Stations Only**

San Joaquin Valley River

8 1 Bear Creek at St. Louis Ranch
12 Merced River near Stevinson

Merced River

8 1200 Merced River below Exchequer Dam

Fresno - Chowchilla Rivers

8 7 1510 Fresno River near Madison

Upper Kings River

8 1 1400 Stanislaus River below Pulloch Dam

Tuolumne River

8 1 Tuolumne River below Don Pedro Dam

* Also quality sampling station.
** Flow records are published in the U. S. Geological Survey publication "Surface Water Records of California".
NOTE: Due to a change in the numbering of surface water public sampling stations a station number cross reference can be found in Appendix D Table D-1

LEGEND

- SURFACE WATER MEASUREMENT STATIONS
- SURFACE WATER QUALITY SAMPLING STATIONS
- SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS
- DISTRICT BOUNDARY
- HYDROGRAPHIC UNIT BOUNDARY
- MAJOR DRAINAGE BOUNDARY

KEY TO SHEETS

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1965

LOCATION OF SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS

SCALE OF MILES
6 0 6 12

LEGEND

SURFACE WATER MEASUREMENT STATIONS

SURFACE WATER QUALITY SAMPLING STATIONS

SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS

DISTRICT BOUNDARY

HYDROGRAPHIC UNIT BOUNDARY

MAJOR DRAINAGE BOUNDARY

San Joaquin V
B00420 Maripo
0435 Easts
*0770 Delta-
0975 Panoch
5138 Merced
5155
5570 Bear C
6170 Owens
*7250 San Jo
7300
*7375
7400
7575
7610
*7710
*7885
8720 Orest

Merced River
B56100 Burns

Fresno - Chowc
B62100 Maripo
2400
*4200 Chowch
4260 Stripe
4300 West F
4360 Middle
4400 East F
7300 Miami
7325 Lewis

San Joaquin Va
B00475 Salt S
5125 Merced

Fresno - Chowc
B67150 Fresno

Tulare Lake Va
C01140 Kings
2185 Kaweah
3195 Tule R

* Also qu
** Flow re
Califor
NOTE: Due to
referen

KEY TO SHEETS

STATE OF CALIFORNIA
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HYDROLOGIC DATA 1965

LOCATION OF SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS

SCALE OF MILES

6 0 6 12

HYDROGRAPHIC AREAS B AND C

Surface Water Measurement Stations

[illegible]

San Joaquin River

[illegible] Millerton Lake

[illegible]

Tulare Lake Valley Floor

CC1320 South Fork Kings River below [illegible] Weir #2
2W2 Cross Creek below Lakeland Canal
3113 Tulare Lake
3130 Elk Bayou near Tulare
3154 Tule River below Porterville
3.92 Porter Slough at Porterville
[illegible] near Porterville
3413 Friant-Kern Canal Deliver, to Porter Slough
3423 [illegible] Tule River
[illegible] Hubbs-Miner Ditch at Porterville
[illegible] Rhodes-Fine Ditch near Porterville
3468 Woods-Central Ditch near Porterville
3469 Poplar Ditch near Porterville
3467 Vandalia Ditch near Porterville
3[illegible] Campbell Moreland Ditch above Porterville
3484 Porter Slough Ditch at Porterville

Tule River

C32105 North Fork Tule River at Springville

[illegible]

Fresno - Chowchilla Rivers

[illegible] Mariposa Creek below Mariposa Reservoir
2[illegible] near Cathoya Valley
[illegible] Chowchilla River near Raymond
12[illegible] Stevens Creek near Raymond
13[illegible] West Fork Chowchilla River near Mariposa
14[illegible] Middle Fork Chowchilla River near Mariposa
14[illegible] East Fork Chowchilla River near Oakhurst
1300 Miami Creek near Oakhurst
1325 Lewis Fork Fresno River near Oakhurst

Surface Water Quality Sampling Stations Only**

San Joaquin Valley Floor

[illegible] Salt Slough at San Luis Ranch
'12' Merced River near Stevinson

Fresno - Chowchilla Rivers

[illegible] Fresno River near Daulton

Tulare Lake Valley Floor

CC1145 Kings River below Pregiere Weir
2155 Kaweah River below Terminus Dam
3195 Tule River below Success Dam

Kings River

C11140 Kings River below Pine Flat Dam
1320 Big Creek above Pine Flat Dam
1410 Kings River below North Fork

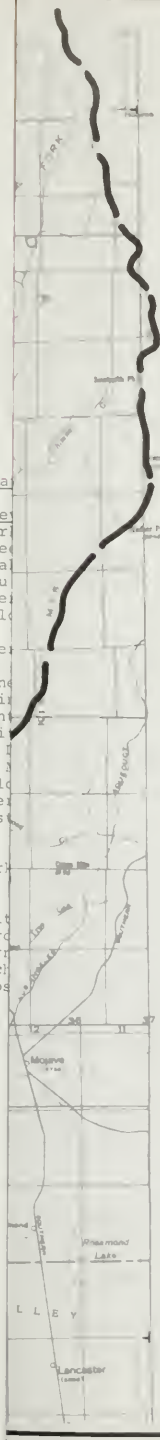
Kaweah River

C21250 Kaweah River near Three Rivers

Tule River

C[illegible]155 Tule River near Springville

* Also quality sampling station.
** Flow records are published in the U. S. Geological Survey publication "Surface Water Records of California" and the Kings River Water Association publication "Water Master Report".
NOTE: Due to a change in the numbering of surface water quality sampling stations, a station number cross reference can be found in Appendix D, Table D-1.



LEGEND

SURFACE WATER MEASUREMENT STATIONS

SURFACE WATER QUALITY SAMPLING STATIONS

SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS

DISTRICT BOUNDARY

HYDROGRAPHIC UNIT BOUNDARY

MAJOR DRAINAGE BOUNDARY

Surface Wa

Tulare Lake Valle
C01120 South For
2602 Cross Cre
3110 Tulare La
3130 Elk Bayou
3169 Tule Rive
3182 Porter Sl
3187
3913 Friant-Ke
3923
3925 Hubbs-Min
3940 Rhodes-Fi
3948 Woods-Cent
3960 Poplar Di
3965 Vandalia
3970 Campbell
3984 Porter Sl
*5150 Kern Rive
7120 Buena Vis

Tule River
C32100 North For

* Also qualit
** Flow record
of Califor
NOTE: Due to a c
number cros

KEY TO SHEETS

STATE OF CALIFORNIA
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SAN JOAQUIN DISTRICT

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LOCATION OF SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS

SCALE OF MILES

6 0 6 12

LEGEND
SURFACE WATER MEASUREMENT STATIONS
SURFACE WATER QUALITY SAMPLING STATIONS
SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS
DISTRICT BOUNDARY
HYDROGRAPHIC UNIT BOUNDARY
MAJOR DRAINAGE BOUNDARY
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SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
LOCATION OF SURFACE WATER MEASUREMENT AND QUALITY SAMPLING STATIONS
SCALE OF MILES
6 0 5 12
SANTA BARBARA
C
0
4
5
6
7
2
3

LEGEND

RICT OR AREA BOUNDARIES

ERS INDICATE CODE CLASSIFICATION

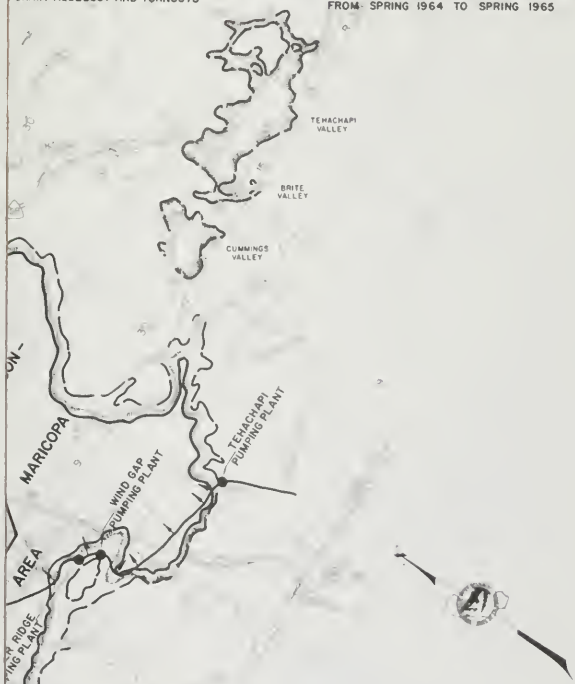
HILL LINE

ROCK LINE

FORNIA AQUEDUCT AND TURNOUTS

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1964 TO SPRING 1965.

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF −5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1964 TO SPRING 1965



STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
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HYDROLOGIC DATA 1965

GROUND WATER LEVEL CHANGES
IN DISTRICTS OR AREAS
UNCONFINED AND SEMICONFINED AQUIFERS
SPRING 1964-SPRING 1965

SCALE OF MILES
6 0 6 12

LEGEND
DISTRICT OR AREA BOUNDARIES
S-22.00 NUMBERS INDICATE CODE CLASSIFICATION
FOOTHILL LINE
BEDROCK LINE
CALIFORNIA AQUEDUCT AND TURNOUTS
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1964 TO SPRING 1965
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1964 TO SPRING 1965
ORANGE COVE
FRESNO
ALTA I.D.
S-22.18
KAWEAH DELTA
W.C.D.
S-22.24
TULARE I.D.
S-22.23
LOWER TULE RIVER
S-22.50
POSEY I.D.
S-22.33
DELANO-EARLIMART I.D.
S-22.58
SOUTHERN SAN JOAQUIN
M.U.D.
S-22.32
WOOD I.D.
S-22.37
SHAFTER-WASCO I.D.
S-22.39
ALMANOR-ALLENSWORTH AREA
S-22.34
SEMITROPIC W.S.D.
S-22.43
KERN RIVER DELTA AREA
S-22.40
CONSOLIDATED I.D.
S-22.18
LOWER KINGS RIVER AREA
S-22.20
COCHRAN I.D.
S-22.46
TULARE LAKE-LOST HILLS AREA
S-22.45
FRESNO I.D.
S-22.18
FRESNO SLOUGH AREA
S-22.17
MADERA I.D.
S-22.18
CHOWCHILLA I.D.
S-22.24
WEST CHOWCHILLA-MADERA AREA
S-22.14
MERCED I.D.
S-22.09
MERCED BOTTOMS
S-22.34
MERCED I.D.
S-22.19
SAN LUIS CANAL CO.
S-22.49
PORTA S.C.D.
S-22.45
HUREN AREA
S-22.47
MERMOTA-AREA
S-22.11
HUREN-MERMOTA
S-22.44
ANDERSON-MANTECA AREA
S-22.54
HANFORD
S-22.41
LEMOORE
CODORNIZ
OAKDALE I.D.
S-22.05
HUGHSON I.D.
S-22.07
TURLOCK I.D.
S-22.08
MODESTO
OCEAN
MERMOTA
TRACY
STATE OF CALIFORNIA
THE RESOURCES AGENCY
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GROUND WATER LEVEL CHANGES
IN DISTRICTS OR AREAS
UNCONFINED AND SEMICONFINED AQUIFERS
SPRING 1964-SPRING 1965
SCALE OF MILES

LEGEND

RICT OR AREA BOUNDARIES

BERS INDICATE CODE CLASSIFICATION

HILL LINE

OCK LINE

FORNIA AQUEDUCT AND TURNOUTS

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1964 TO SPRING 1965.

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF −5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1964 TO SPRING 1965.

STATE OF CALIFORNIA
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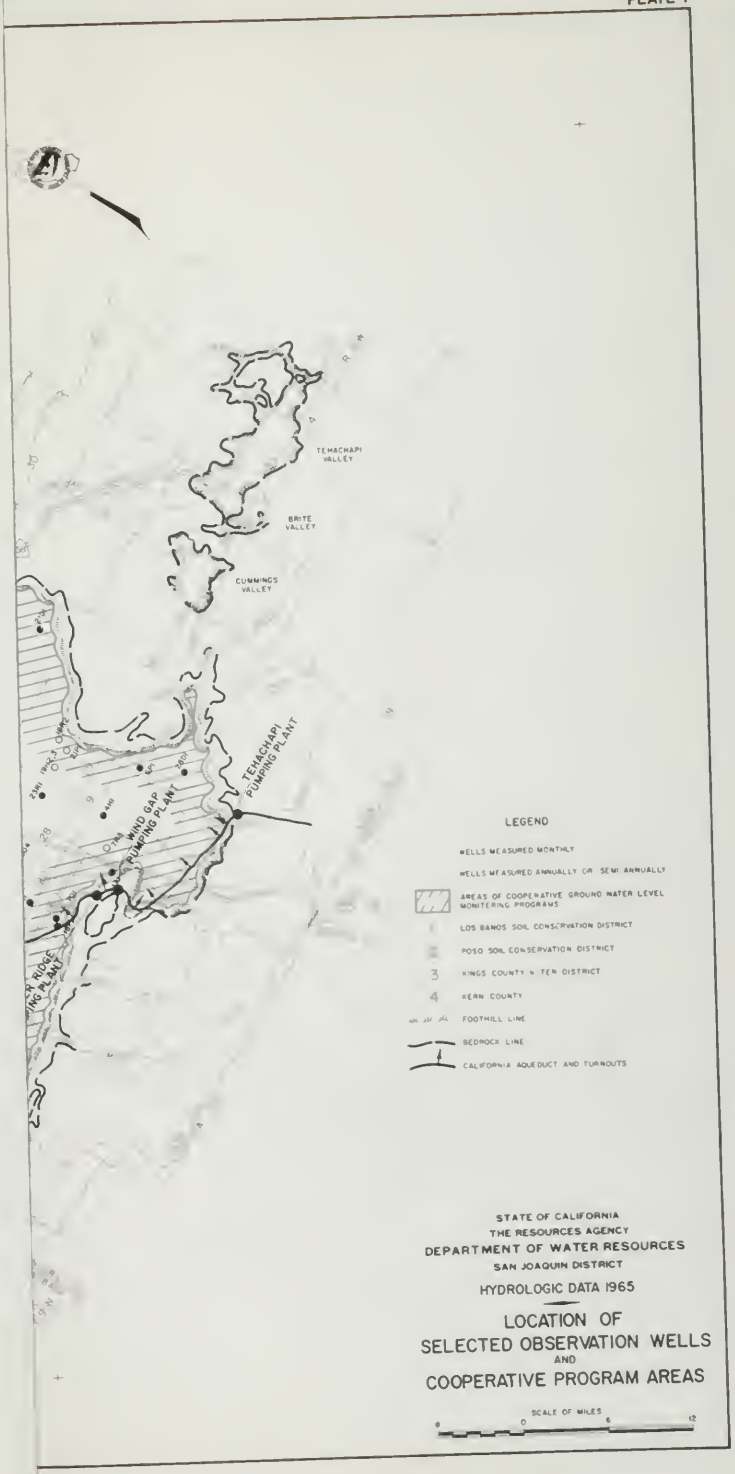
HYDROLOGIC DATA 1965

GROUND WATER LEVEL CHANGES
IN DISTRICTS OR AREAS
CONFINED AND SEMICONFINED AQUIFERS
SPRING 1964-SPRING 1965

SCALE OF MILES
6 0 6 12

LEGEND
DISTRICT OR AREA BOUNDARIES
5-22.00 NUMBERS INDICATE CODE CLASSIFICATION
FOOTHILL LINE
BEDROCK LINE
CALIFORNIA AQUEDUCT AND TURNOUTS
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1964 TO SPRING 1965
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1964 TO SPRING 1965
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
GROUND WATER LEVEL CHANGES
IN DISTRICTS OR AREAS
CONFINED AND SEMICONFINED AQUIFERS
SPRING 1964 - SPRING 1965
SCALE 1" = 10 MI.
CHOWCHILLA I.D. 5-22.18
MADERA I.D. 5-22.19
FRESNO I.D. 5-22.18
CONSOLIDATED I.D. 5-22.16
ALTA I.D. 5-22.19
KAWEAH DELTA
W.C.D.
TULARE I.D. 5-22.25
LOWER TULE RIVER 5-22.30
PIXLEY I.D. 5-22.33
ORLAND-EARLIMART I.D. 5-22.35
SOUTHERN SAN JOAQUIN M.U.D.
NORTH KERN W.S.D. 5-22.36
SHAFTER-WASCO I.D. 5-22.38
SEMITROPIC W.S.D. 5-22.43
KERN RIVER DELTA AREA 5-22.40
EDISON
MARICOPA
LOST HILLS AREA 5-22.45
TULARE LAKE
CORCORAN I.D. 5-22.46
ALLEGHANY-ALLENSWORTH AREA 5-22.34
LOWER KINGS RIVER AREA 5-22.20
FRESNO SLOUGH AREA 5-22.17
HURON AREA 5-22.47
MANOTA
MERCED I.D. 5-22.09
MERCED BOTTOMS
MODESTO I.D. 5-22.07
TURLOCK I.D. 5-22.08
CANALS I.D. 5-22.06
SAN LUIS CANAL I.D. 5-22.49
DELTA
MENDOTA
MAITLTRICK AREA 5-22.44
AVENAL
TRACY AREA 5-22.01
TULARE COVE I.D. 5-22.21
FRESNO
CONSOLIDATED I.D. 5-22.16
ALTA I.D. 5-22.19
KAWEAH DELTA
W.C.D.
TULARE I.D. 5-22.25
LOWER TULE RIVER 5-22.30
PIXLEY I.D. 5-22.33
ORLAND-EARLIMART I.D. 5-22.35
SOUTHERN SAN JOAQUIN M.U.D.
NORTH KERN W.S.D. 5-22.36
SHAFTER-WASCO I.D. 5-22.38
SEMITROPIC W.S.D. 5-22.43
KERN RIVER DELTA AREA 5-22.40
EDISON
MARICOPA
LOST HILLS AREA 5-22.45
TULARE LAKE
CORCORAN I.D. 5-22.46
ALLEGHANY-ALLENSWORTH AREA 5-22.34
LOWER KINGS RIVER AREA 5-22.20
FRESNO SLOUGH AREA 5-22.17
HURON AREA 5-22.47
MANOTA
MERCED I.D. 5-22.09
MERCED BOTTOMS
MODESTO I.D. 5-22.07
TURLOCK I.D. 5-22.08
CANALS I.D. 5-22.06
SAN LUIS CANAL I.D. 5-22.49
DELTA
MENDOTA
MAITLTRICK AREA 5-22.44
AVENAL
TRACY AREA 5-22.01
TULARE COVE I.D. 5-22.21
FRESNO
CHOWCHILLA I.D. 5-22.18
MADERA I.D. 5-22.19
FRESNO I.D. 5-22.18

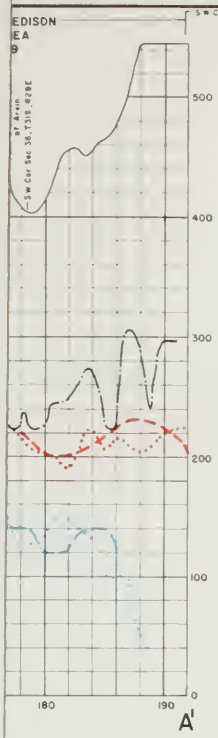


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1965

LOCATION OF
SELECTED OBSERVATION WELLS
AND
COOPERATIVE PROGRAM AREAS

FRESNO
MADERA
MADERA COUNTY
FRESNO COUNTY
MADERA COUNTY
FRESNO COUNTY
MADERA COUNTY
FRESNO COUNTY



HISTORIC
GROUND WATER AREAS

1 MADERA
2 FRESNO
3 CONSOLIDATED
4 CENTERVILLE BOTTOMS
5 ALTA
6 IVANHOE
7 OUTSIDE IVANHOE
8 MILL CREEK
9 TULARE
10 ELK BAYOU
11 LINDSAY-EXETER
12 TULE RIVER
13 LOWER DEER CREEK
14 MIDDLE DEER CREEK
15 DELANO-EARLIMART
16 Mc FARLAND-SHAFTER
17 ROSEDALE
18 ARVIN-EDISON

Note: See Figure C-1 for Hydrographs of 18 Historic Ground Water Areas

LEGEND

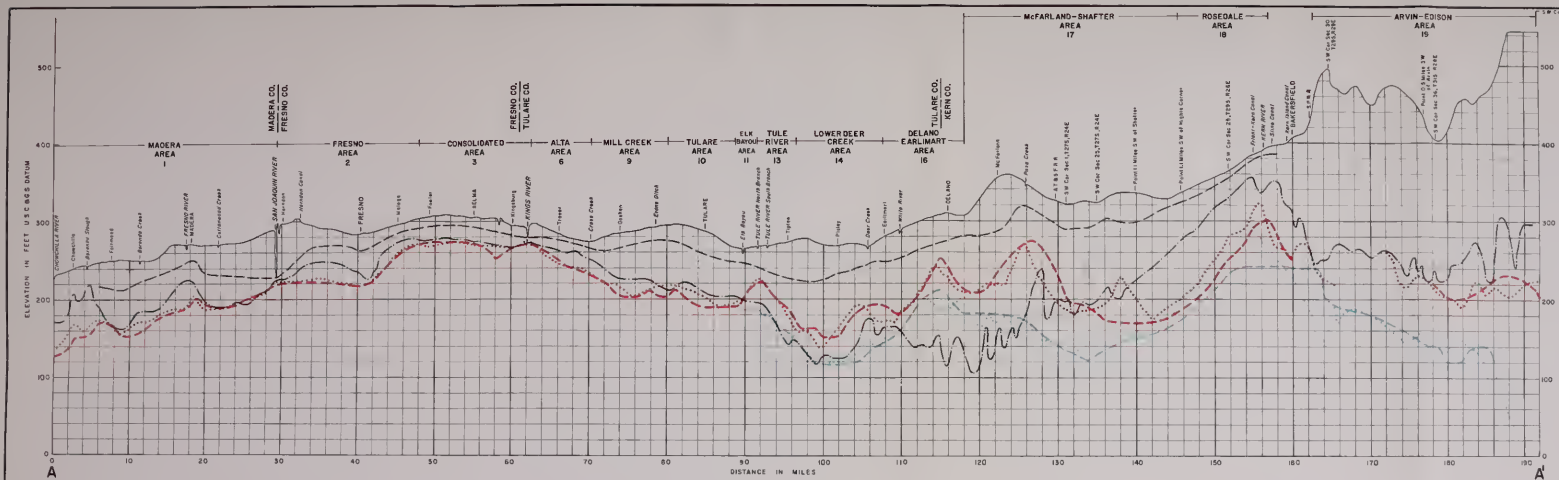
- GROUND WATER AREA BOUNDARIES
- GROUND WATER LEVEL FALL 1921
- GROUND WATER LEVEL FALL 1951
- GROUND WATER LEVEL SPRING 1964, UNCONFINED AQUIFER
- GROUND WATER LEVEL SPRING 1964, PRESSURE SURFACE
- GROUND WATER LEVEL SPRING 1965, UNCONFINED AQUIFER
- GROUND WATER LEVEL SPRING 1965, PRESSURE SURFACE
- A A' GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1965

MAP OF 18 HISTORIC GROUND WATER AREAS IN SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951, 1964 & 1965

SCALE OF MILES
6 0 6 12



HISTORIC GROUND WATER AREAS

1 MADERA
2 FRESNO
3 CONSOLIDATED
4 CENTERVILLE BOTTOMS
5 ALTA
6 IVANHOE
7 OUTSIDE IVANHOE
8 MILL CREEK
9 TULARE
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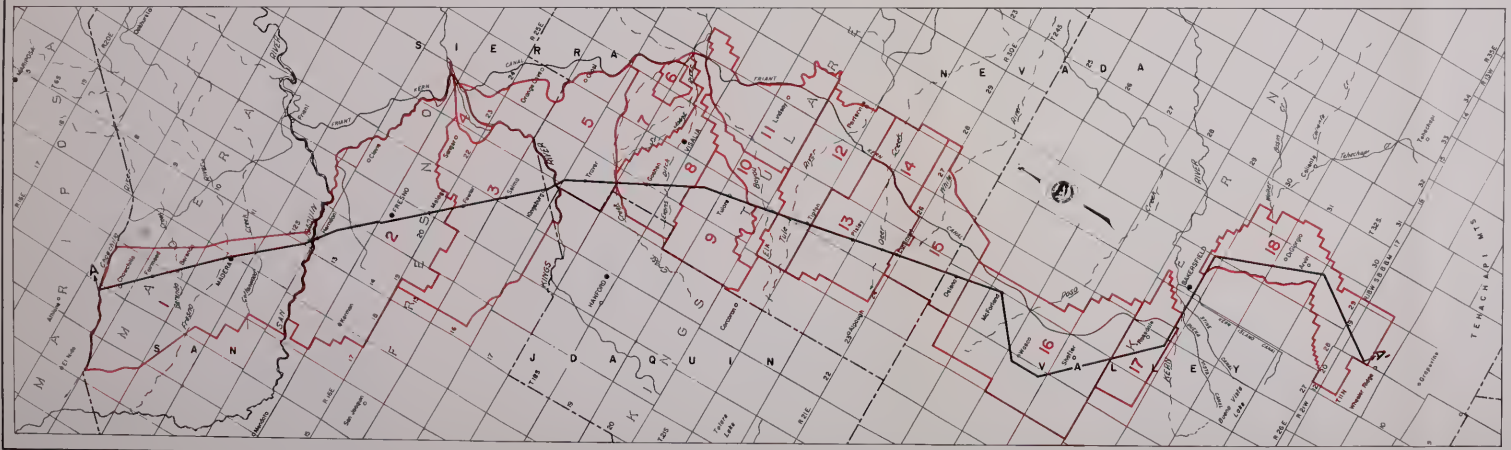
15 DELANO-EARLIMART
16 McFARLAND-SHAFTER
17 ROSEDALE
18 ARVIN-EDISON

Note: See Figure C-1 for Hydrographs of 18 Historic Ground Water Areas



LEGEND

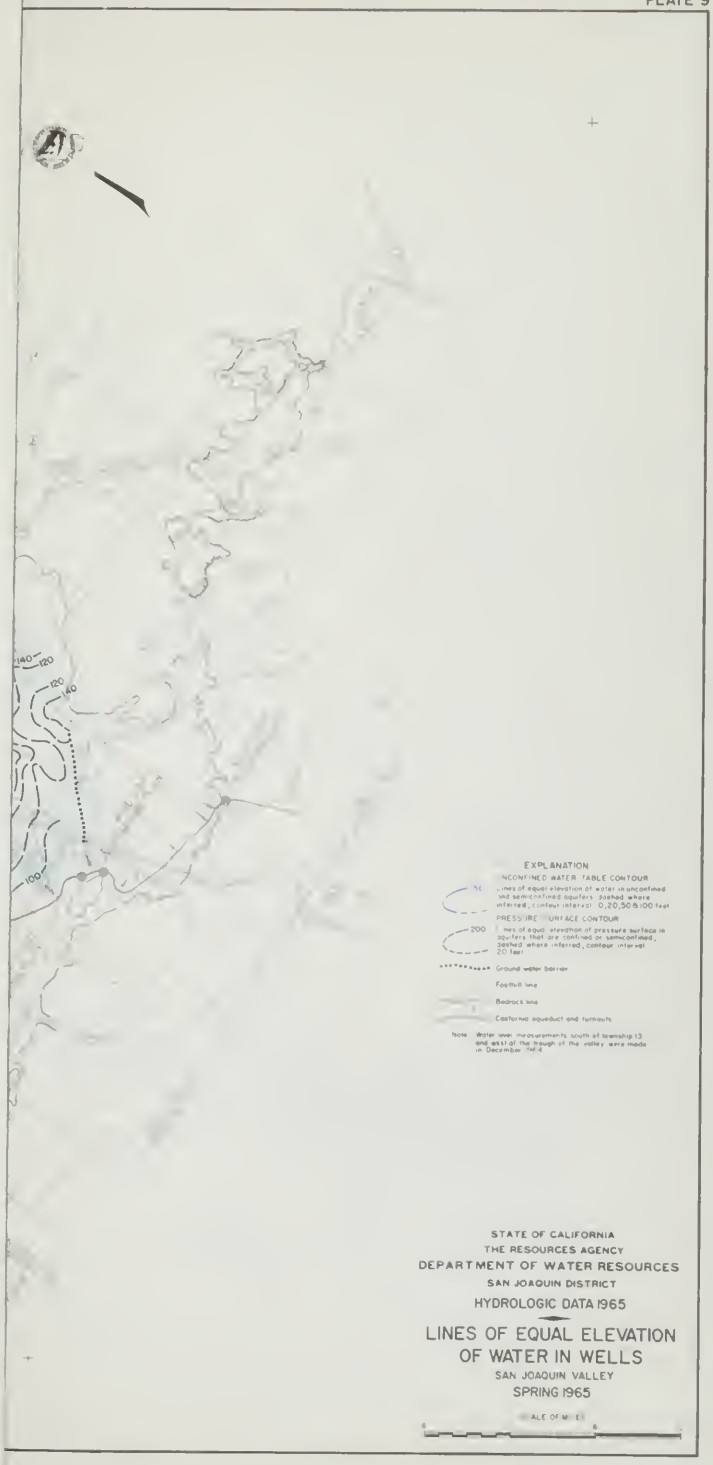
- GROUND WATER AREA BOUNDARIES
- GROUND WATER LEVEL FALL 1921
- GROUND WATER LEVEL FALL 1951
- GROUND WATER LEVEL SPRING 1964, UNCONFINED AQUIFER
- GROUND WATER LEVEL SPRING 1964, PRESSURE SURFACE
- GROUND WATER LEVEL SPRING 1965, UNCONFINED AQUIFER
- GROUND WATER LEVEL SPRING 1965, PRESSURE SURFACE
- GROUND WATER LEVEL PROFILE SECTION

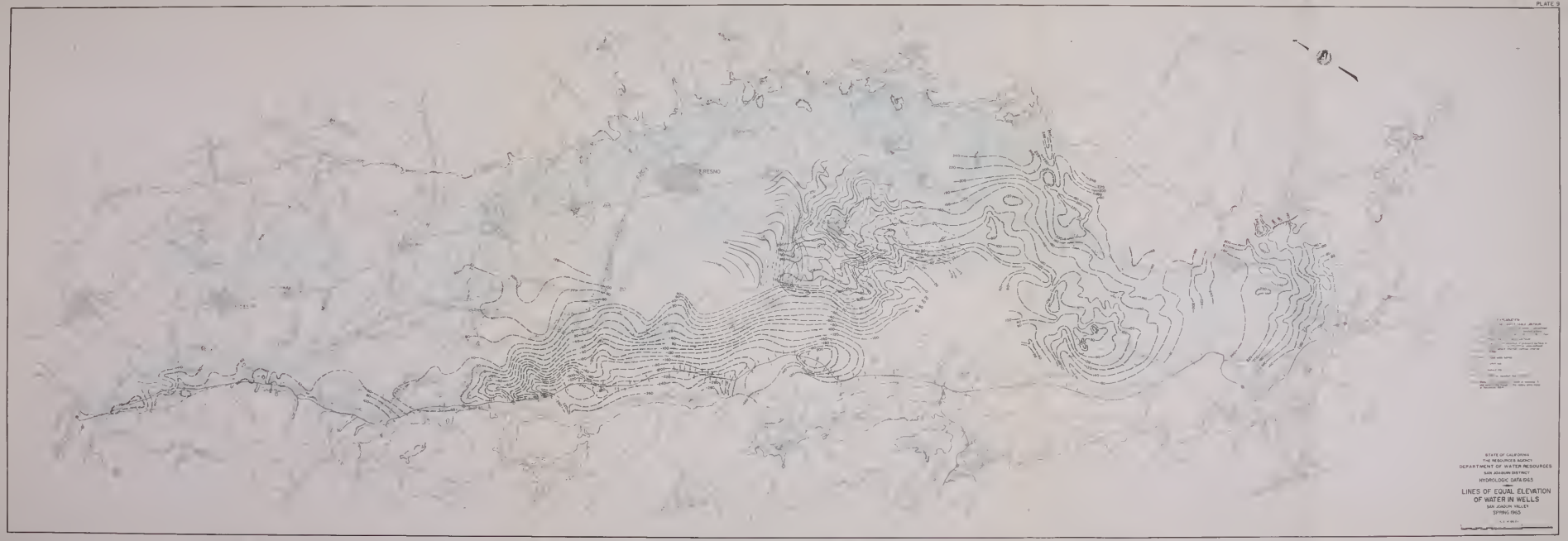
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

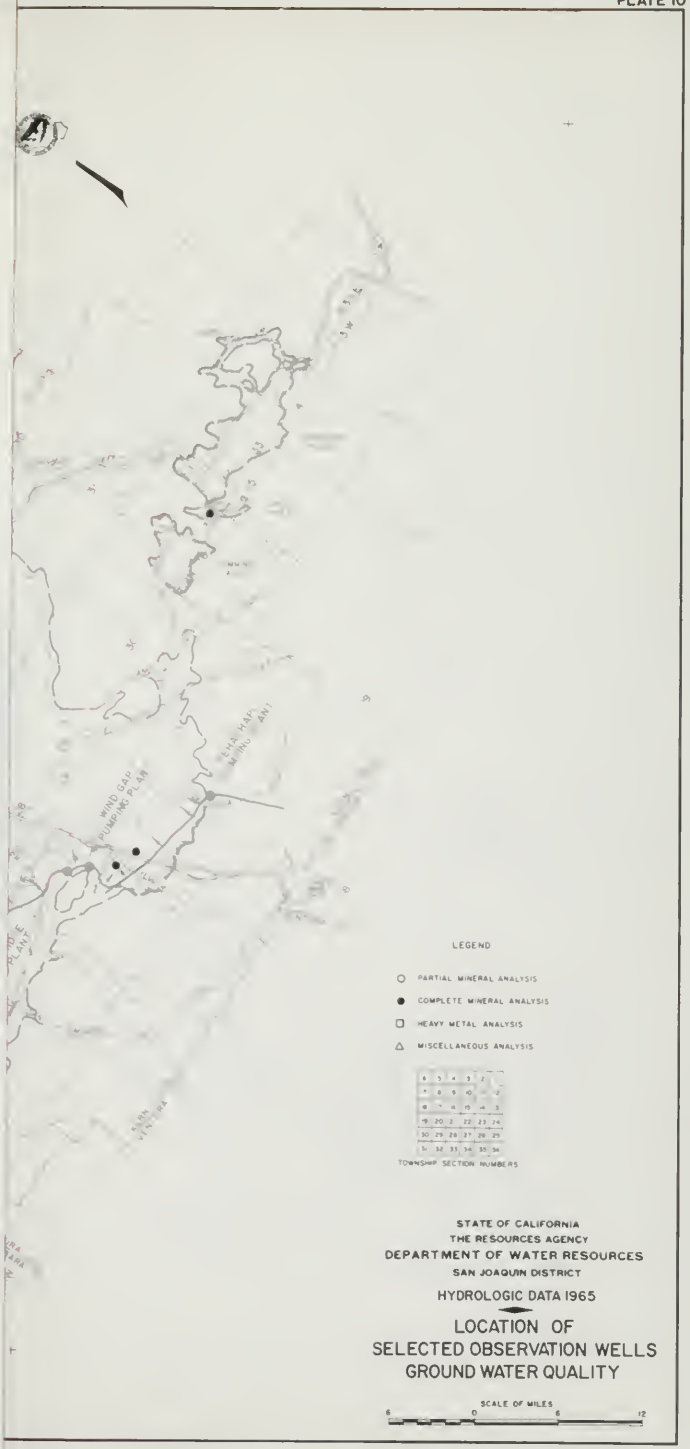
HYDROLOGIC DATA 1965

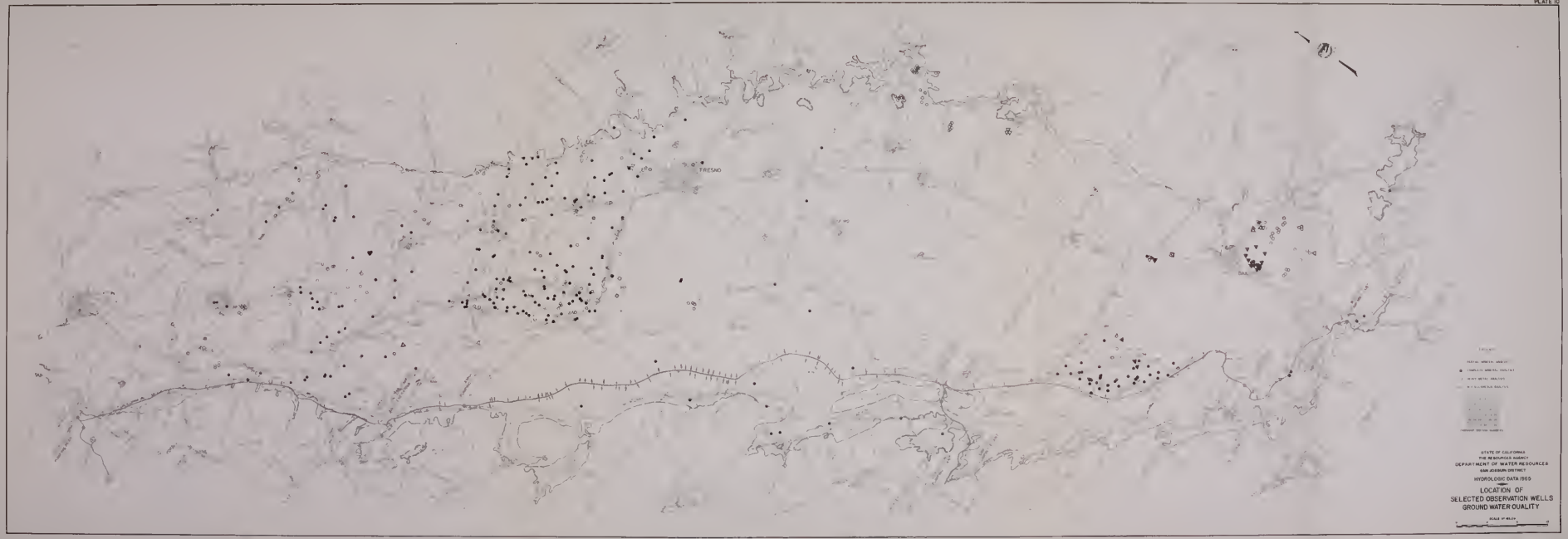
MAP OF 18 HISTORIC GROUND WATER AREAS IN SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951, 1964 & 1965

SCALE OF MILES


140
120
120
140
100
EXPLANATION
UNCONFINED WATER TABLE CONTOUR
Lines of equal elevation of water in unconfined and semiconfined aquifers, dashed where inferred, contour interval: 0, 20, 50 & 100 feet
PRESSURE SURFACE CONTOUR
200
Lines of equal elevation of pressure surface in aquifers that are confined or semiconfined, dashed where inferred, contour interval 20 feet
Ground water barrier
Foothill line
Bedrock line
Castaic aqueduct and turnouts
Note: Water level measurements south of township 13 and east of the trough of the valley were made in December 1964
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
LINES OF EQUAL ELEVATION
OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1965
SCALE OF MILES


FRESNO
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
LINES OF EQUAL ELEVATION
OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1965


WIND GAP PUMPING PLANT
ETHEL HARE MINING PLANT
LEGEND
PARTIAL MINERAL ANALYSIS
COMPLETE MINERAL ANALYSIS
HEAVY METAL ANALYSIS
MISCELLANEOUS ANALYSIS
TOWNSHIP SECTION NUMBERS
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
LOCATION OF
SELECTED OBSERVATION WELLS
GROUND WATER QUALITY
SCALE OF MILES
6 0 6 12


FRESNO
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
LOCATION OF
SELECTED OBSERVATION WELLS
GROUND WATER QUALITY

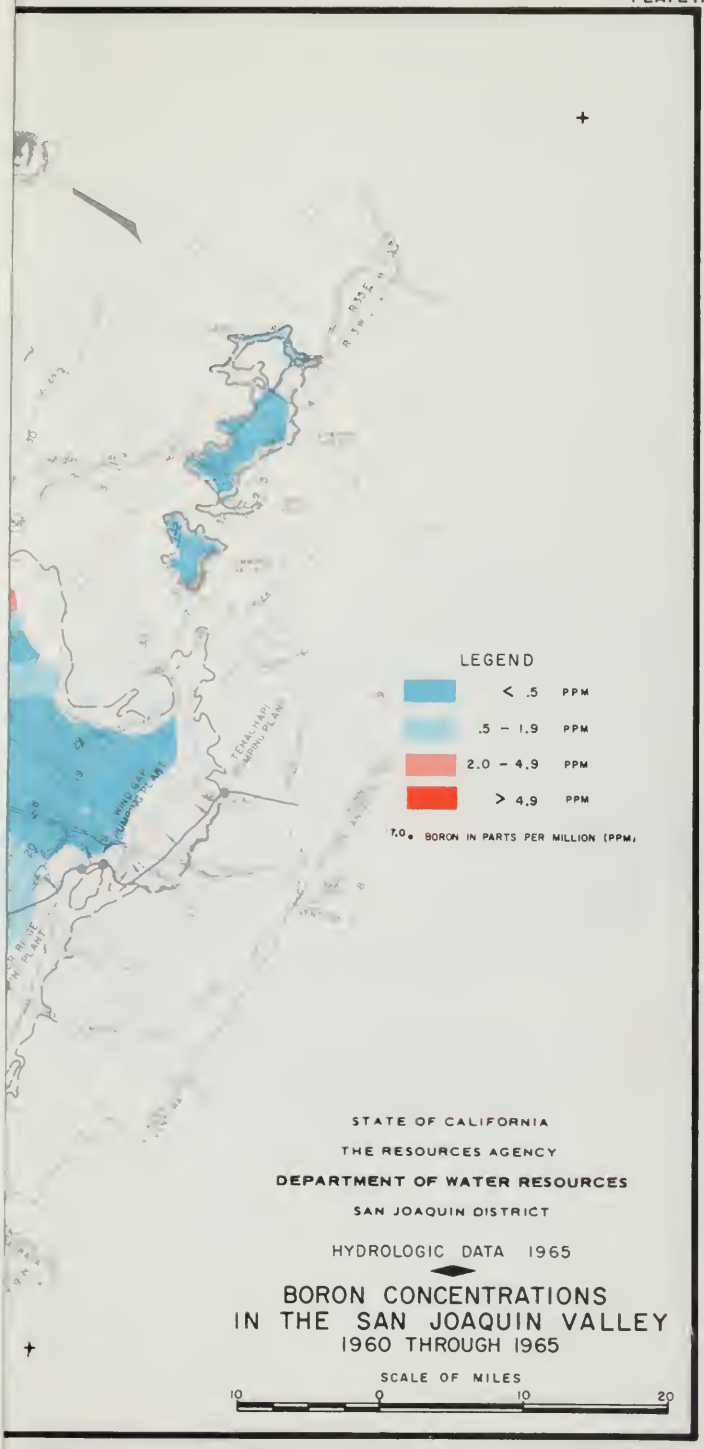
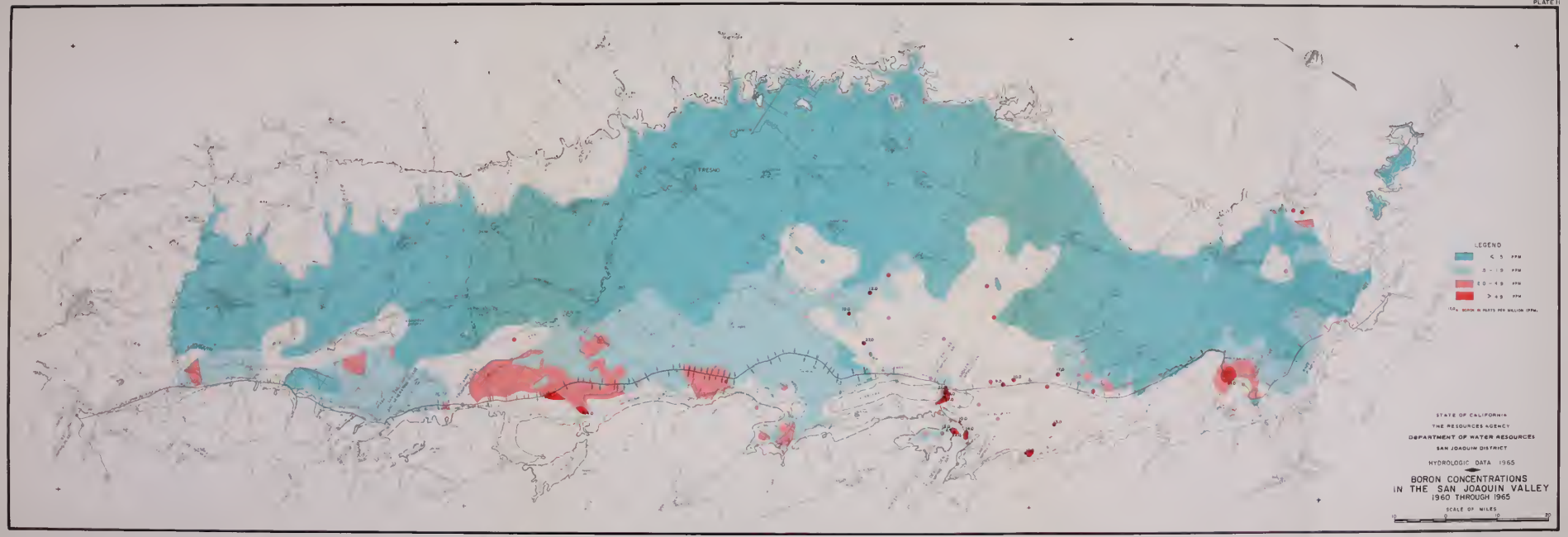

LEGEND
< .5 PPM
.5 – 1.9 PPM
2.0 – 4.9 PPM
> 4.9 PPM
7.0 BORON IN PARTS PER MILLION (PPM)
TEHACHAPI MINING PLANT
WIND GAP MINING PLANT
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
BORON CONCENTRATIONS
IN THE SAN JOAQUIN VALLEY
1960 THROUGH 1965
SCALE OF MILES
10 0 10 20

PLATE II


FRESNO
LEGEND
< 5 PPM
5 - 9 PPM
10 - 49 PPM
> 49 PPM
B, BORON IN PARTS PER MILLION (PPM)
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
BORON CONCENTRATIONS
IN THE SAN JOAQUIN VALLEY
1960 THROUGH 1965
SCALE OF MILES

LEGEND
AREAS WITHOUT DATA
10
LINES OF EQUAL NITRATE CONCENTRATION (IN PARTS PER MILLION) 1961-64 DATA
AREAS INSIDE DEPRESSION CONTOURS CONTAIN CONCENTRATION LESS THAN THE VALUE INDICATED (IN PARTS PER MILLION, NO_3)
.67
NITRATES IN PARTS PER MILLION 1965 DATA ONLY
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
NITRATE CONCENTRATIONS
IN THE SAN JOAQUIN VALLEY
1961 THROUGH 1965
SCALE OF MILES
4
0
4
8
12

LEGEND
STATE OF CALIFORNIA
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SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1965
NITRATE CONCENTRATIONS
IN THE SAN JOAQUIN VALLEY
1961 THROUGH 1965

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