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The Resources Agency

# Department of Water Resources

BULLETIN No. 130-74

# HYDROLOGIC DATA: 1974

## Volume IV: SAN JOAQUIN VALLEY

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*Director*
Department of Water Resources

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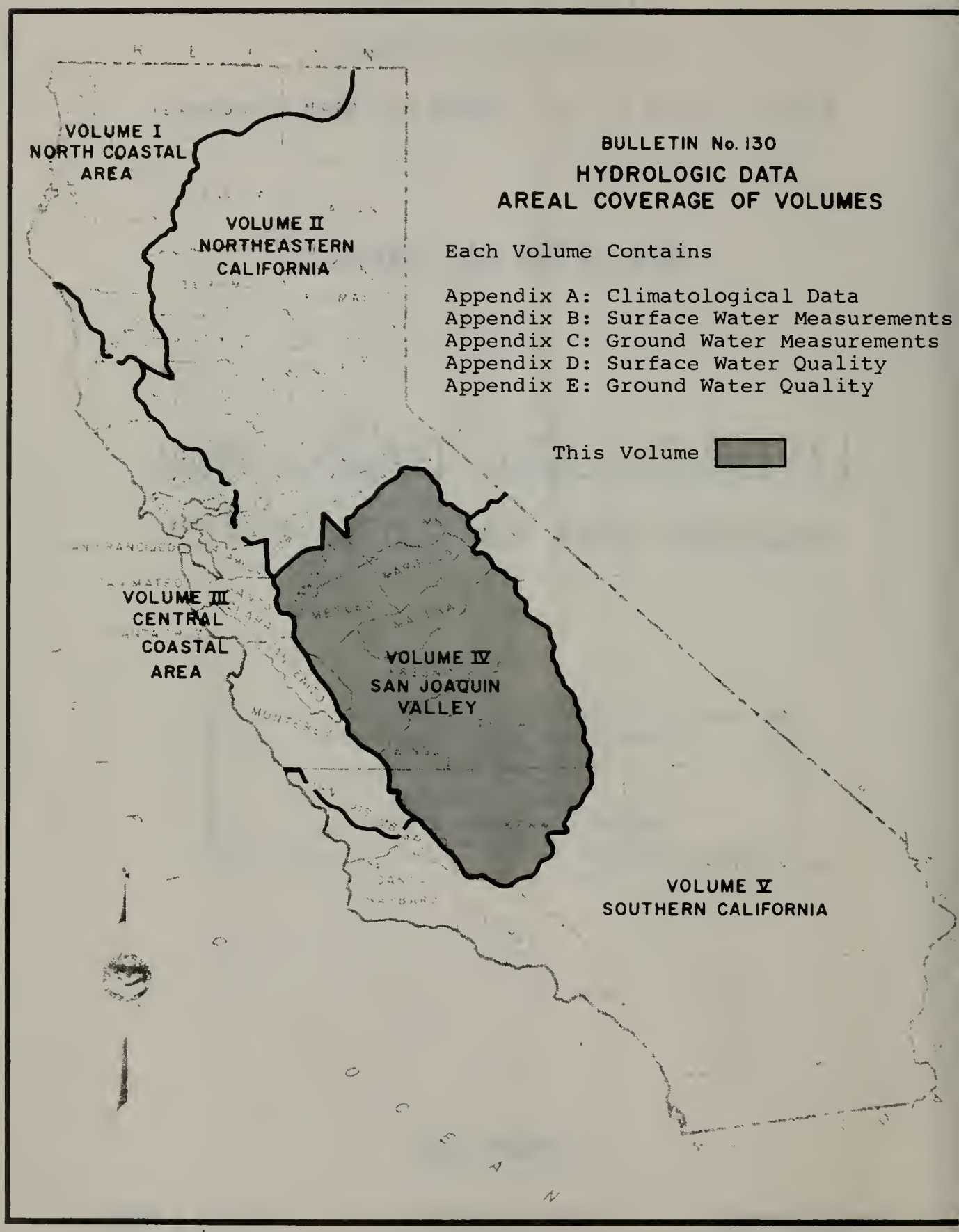
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VOLUME II
NORTHEASTERN
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VOLUME III
CENTRAL
COASTAL
AREA
VOLUME IV
SAN JOAQUIN
VALLEY
VOLUME V
SOUTHERN CALIFORNIA
BULLETIN No. 130
HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES
Each Volume Contains
Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality
This Volume

## FOREWORD

The data collection 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. 130-74 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for monitoring environmental conditions as well as effective planning, design, construction, and operation of water facilities.

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 the map to the left.

Ronald B. Robie, Director
Department of Water Resources
State of California

## 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) | 1.699 | Cubic meters per minute |
| 1 part per million (ppm) | Milligram per liter (mg/l) | |
| 1 part per billion (ppb) | Microgram per liter (ug/l) | |
| 1 part per trillion (ppt) | Nanogram per liter (ng/l) | |
| 1 equivalent per million (epm) | Milliequivalent per liter (me/l) | |
| Degrees Fahrenheit (°F) | Degrees Celsius (°C) = (°F-32°)5/9 | |

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3 Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1974

State of California
The Resources Agency
Department of Water Resources

EDMUND G. BROWN JR., Governor, State of California
CLAIRE T. DEDRICK, Secretary for Resources
RONALD B. ROBIE, Director, Department of Water Resources
ROBIN R. REYNOLDS, Acting Deputy Director

SAN JOAQUIN DISTRICT

Carl L. Stetson . . . . . Chief
Floyd I. Bluhm . . . . . Chief, Water Supply and Utilization Branch

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Reviewed and coordinated by Division of Planning
Environmental Quality Branch
Water Resources Evaluation Section

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 specially fitting to commend the following agencies:

National Weather Service

U. S. Bureau of Reclamation

U. S. Army Corps of Engineers

U. S. Geological Survey

State Department of Health

City and County of San Francisco

City of Modesto

Kern County Water Agency

Kern County Canal and Water Company

Buena Vista Water Storage District

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

Kern County Parks and Recreation Department

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1973-74 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected station. Plates show lines of equal elevation of water in wells, spring 1974; profile of ground water levels; ground water areas; and well locations.

# APPENDIX A

# CLIMATOLOGICAL DATA

## INTRODUCTION

This appendix summarizes monthly precipitation data in the San Joaquin Valley from July 1, 1973, to September 30, 1974, for stations which are not published by the National Weather Service. Also presented are annual precipitation values from 33 storage gages.

Figure A-1 shows the general location of all climatological observation stations in the San Joaquin Valley for which data are available in department files or files of the National Weather Service.

Table A-1 presents an explanation of column headings and code symbols used, and an index of climatological stations as shown on Figure A-1.

Table A-2 presents monthly precipitation data on 152 of the stations shown in the index.

Table A-3 presents storage gage precipitation data.

Precipitation data for stations shown in the index as still active and not published in this appendix are either published by the National Weather Service, or were not available at time of this publication.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

HYDROGRAPHIC AREA B

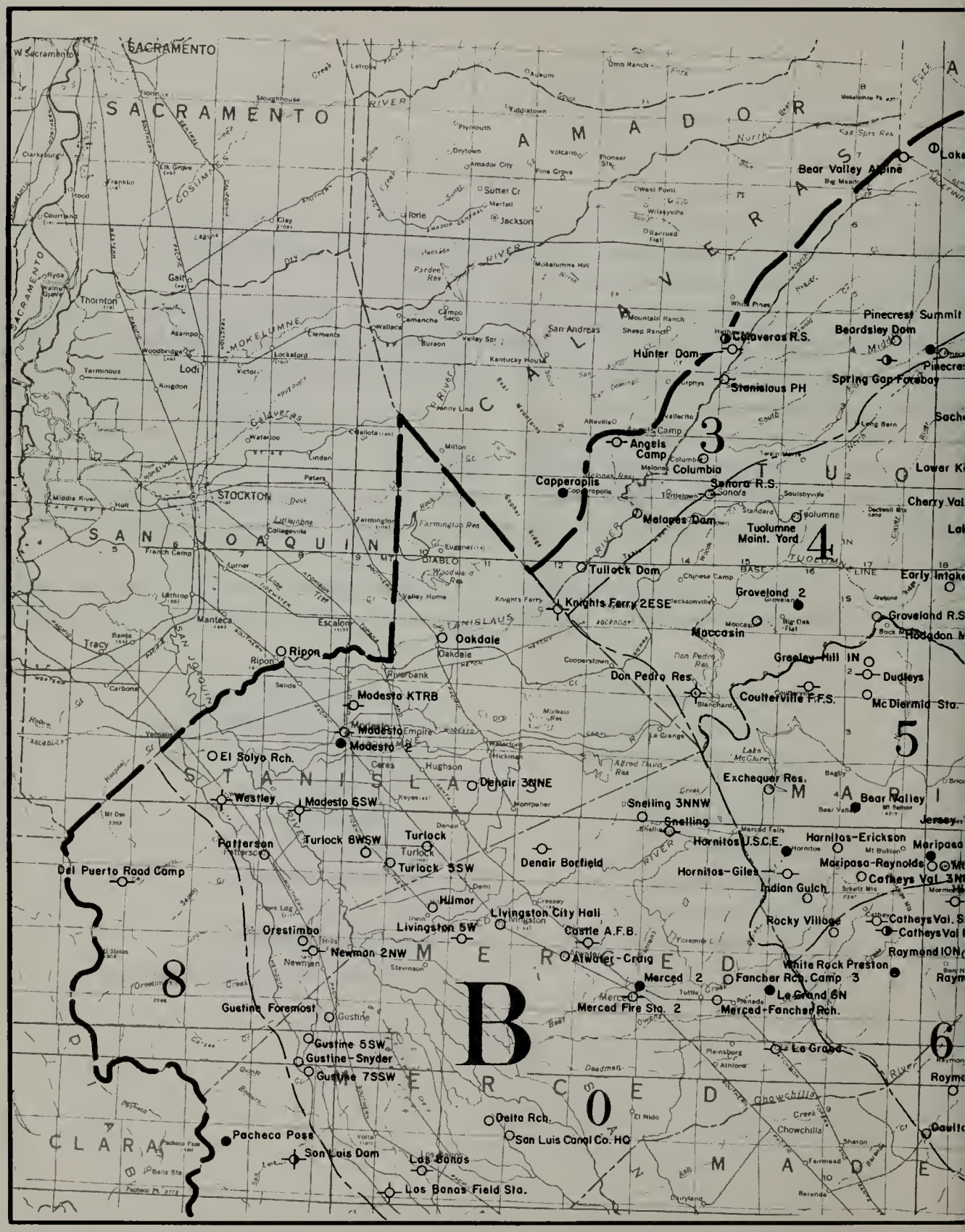
SAN JOAQUIN RIVER BASIN

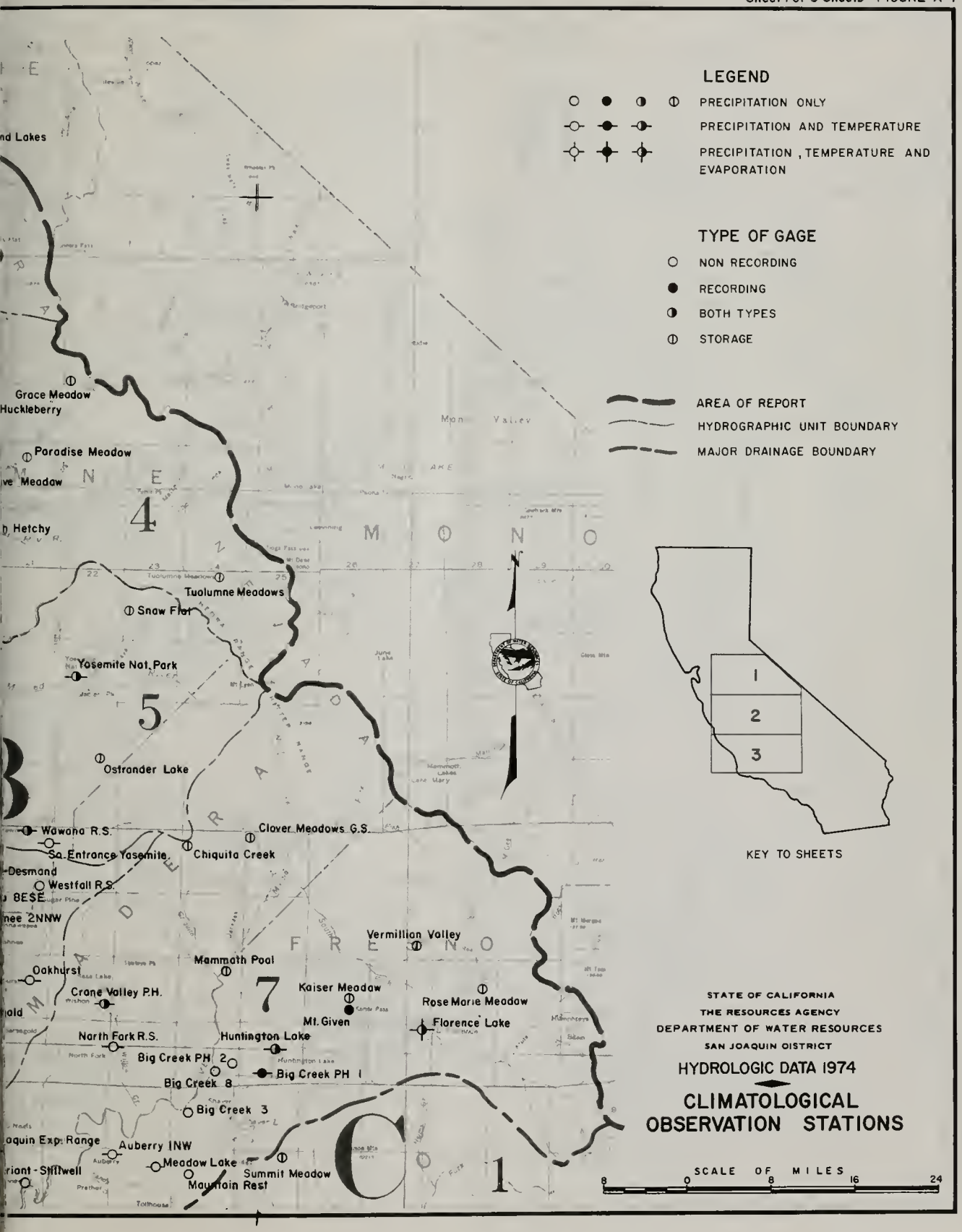
B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C

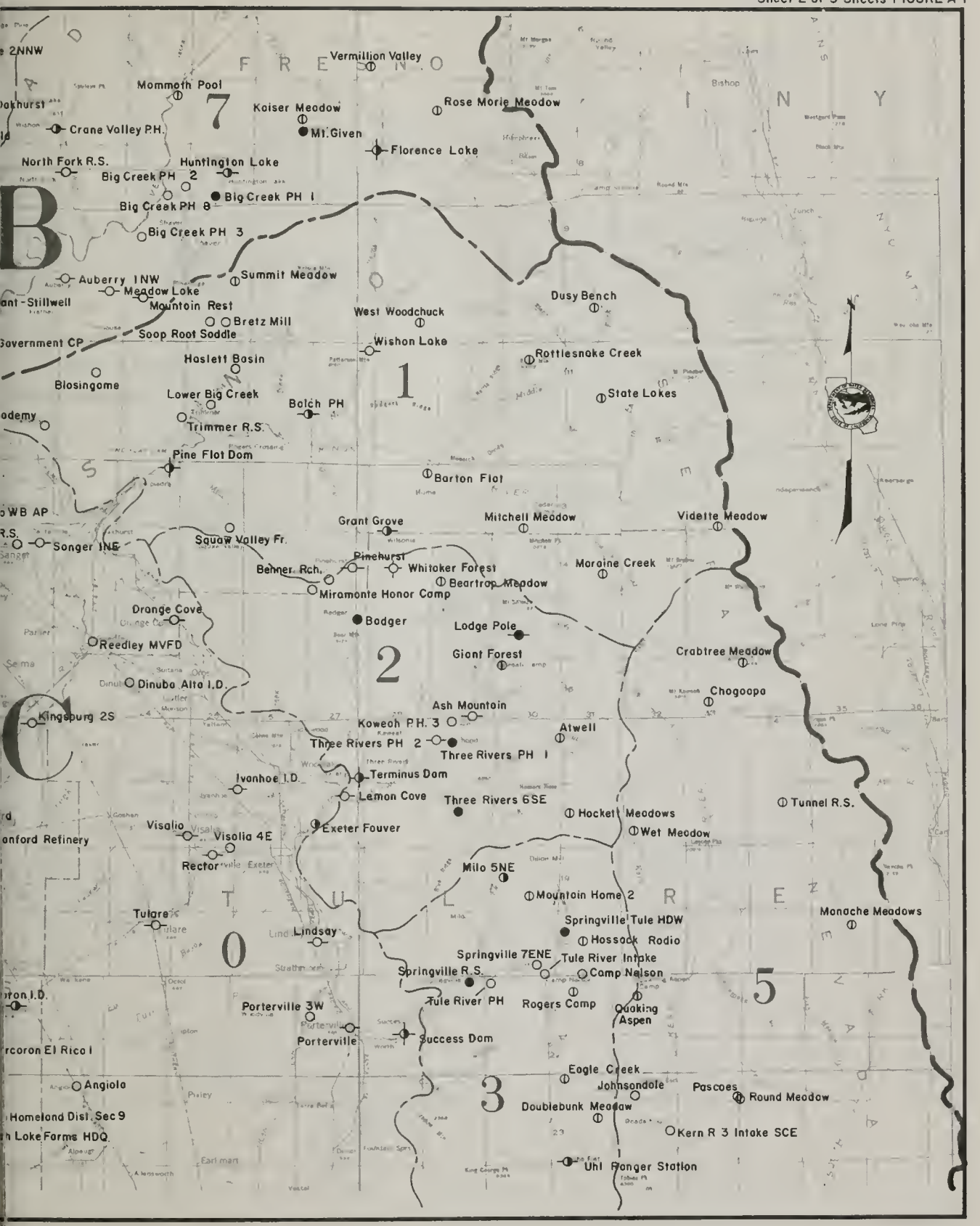
TULARE LAKE DRAINAGE BASIN

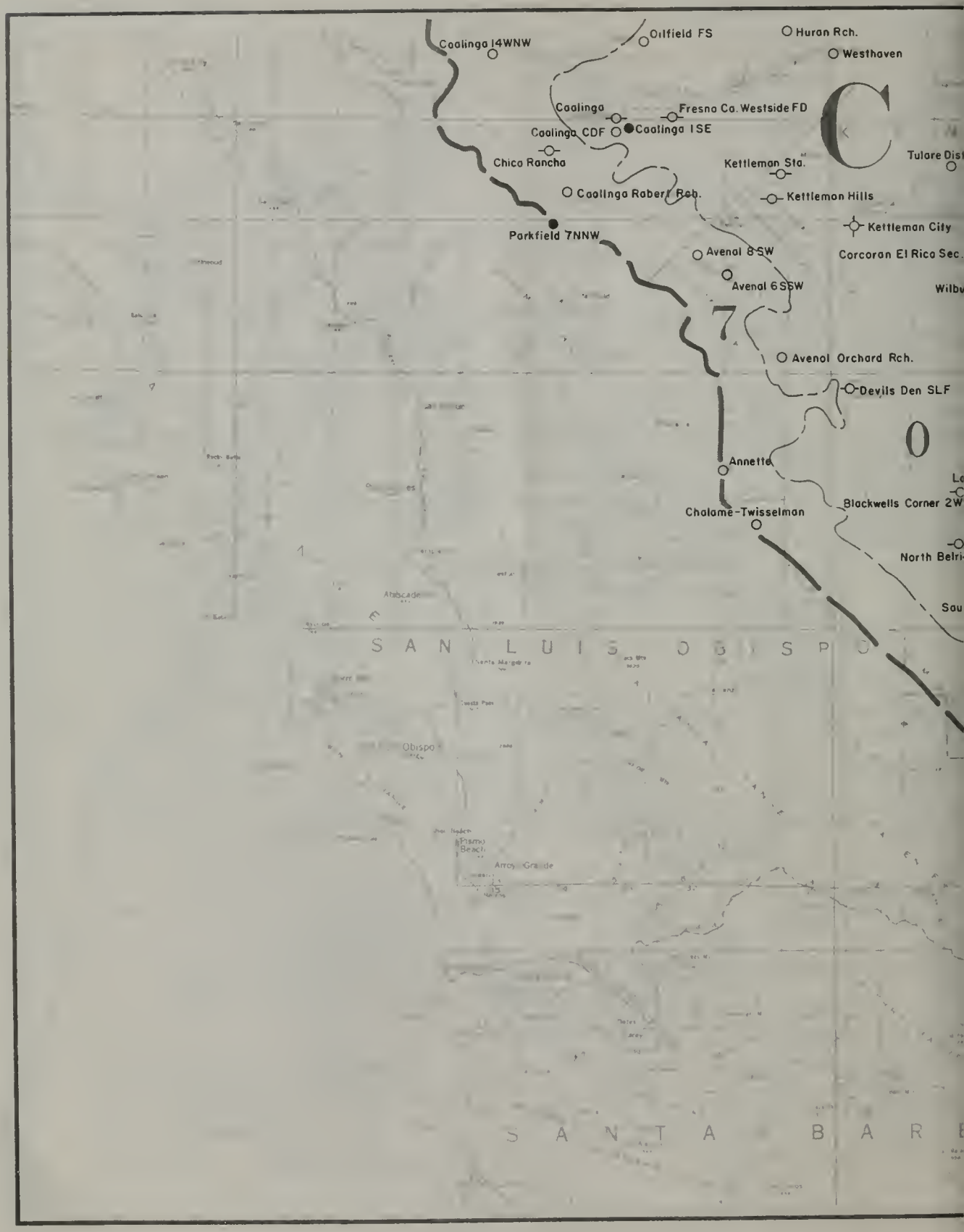
C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side


SACRAMENTO
SACRAMENTO
AMADOR
CALAVERAS
SAN JOAQUIN
STANISLAUS
TUOLUMNE
MARIPOSA
MERCED
MADERA
CLARA
Bear Valley Alpine
Pinecrest Summit
Beardsley Dam
Calaveras R.S.
Hunter Dam
Stanislaus PH
Spring Gap Forebay
Angels Camp
Columbia
Sonora R.S.
Sonora
Capperaplis
Melones Dam
Tuolumne Mount. Yard
Tullock Dam
Knights Ferry 2ESE
Groveland 2
Groveland R.S.
Moccasin
Oakdale
Ripon
Greeley Hill 1N
Dudleys
Don Pedro Res.
Coulterville F.F.S.
McDiermid Sta.
Modesto KTRB
Modesto 2
El Solyo Rch.
Denair 3NNE
Exchequer Res.
Bear Valley
Westley
Modesto 6SW
Snelling 3NNW
Snelling
Hornitos U.S.C.E.
Hornitos-Erickson
Mariposa
Patterson
Turlock 8WSW
Turlock
Turlock 5SW
Denair Borfield
Mariposa-Reynolds
Del Puerto Road Camp
Hornitos-Giles
Indian Gulch
Catheys Val. 3N
Hilmor
Livingston City Hall
Livingston 5W
Rocky Village
Orestimbo
Castle A.F.B.
Newman 2NW
Alwater-Craig
White Rock Preston
Merced 2
Fancher Rch. Camp 3
Le Grand 6N
Gustine Foremost
Merced Fire Sta. 2
Merced-Fancher Rch.
Gustine 5SW
Gustine-Snyder
Gustine 7SSW
Le Grand
Delta Rch.
San Luis Canal Co. HQ
Pacheco Pass
San Luis Dam
Los Banos
Los Banos Field Sta.
3
4
5
6
8
B


LEGEND
PRECIPITATION ONLY
PRECIPITATION AND TEMPERATURE
PRECIPITATION, TEMPERATURE AND EVAPORATION
TYPE OF GAGE
NON RECORDING
RECORDING
BOTH TYPES
STORAGE
AREA OF REPORT
HYDROGRAPHIC UNIT BOUNDARY
MAJOR DRAINAGE BOUNDARY
KEY TO SHEETS
1
2
3
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1974
CLIMATOLOGICAL OBSERVATION STATIONS
SCALE OF MILES
8 0 8 16 24
Grace Meadow
Huckleberry
Paradise Meadow
Hetchy
Tuolumne Meadows
Snow Flat
Yosemite Nat. Park
Ostrander Lake
Wawona R.S.
So. Entrance Yosemite
Clover Meadows G.S.
Chiquita Creek
Westfall R.S.
Vermillion Valley
Mammoth Pool
Oakhurst
Crane Valley P.H.
Kaiser Meadow
Rose Marie Meadow
Mt. Given
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek PH 2
Big Creek PH 1
Big Creek 8
Big Creek 3
Auberry INW
Meadow Lake
Summit Meadow
Mountain Rest
4
5
7
1

Del Puerto Road Camp
Hilmar
Livingston City Hall
Livingston 5W
Castle A.F.B.
Orestimba
Newman 2NW
Atwater-Craig
Merced 2
Merced Fire Sta. 2
Indian Gulch
Catheys Val.-Stonehouse
Catheys Vol.-Bull Ru
Rocky Village
Hidden Val
Raymond 10N
White Rock Preston
Fancher Rch.-Camp 3
Le Grand 6N
Merced-Fancher Rch.
Le Grand
Raymon
Gustine Faremost
Gustine 5SW
Gustine-Snyder
Gustine 7SSW
B
M E R C E D
Delta Rch.
San Luis Canal Co. HDQ.
Dailton
San Joa
Pacheco Pass
San Luis Dam
Los Banos
Los Banos Field Sta.
Los Banos 5S
Los Banos Det. Res.
South Dos Palos
Poso Canal Co. HDQ.
M A D E R
Madera
Madera I.D. Yar
Panoche Water Dist.
Los Banos Arburua
Pfeiffer Rch.
Firebaugh 9W
8
Little Panoche Det. Dam
Mendota VDL Farms
Mendota Dam
Mendota 1NNW
PANOCHE HILLS
Cait Rch. HDQ
Mendota Murietta Rch.
S A N B E N I T O
Panoche 2W
Panoche
Tranquility-Glatz
San Joaquin
San Joaquin MVFD
Cantua Rch.
C
Idria
Five Points Diener
Five Points 5SSW
Martinez Spring
Damengine Rch.
Damengine Springs
Thirty-Two Corral
Oilfields Joaquin RDG
Huron Rch.
Coalinga 14WNW
7
Oilfields F. S.
Westhaven
PLEASANT
Coalinga
Fresno Co. Westside FD
Coalinga CDF
Coalinga ISE
Chico Rancho
Kettleman Sta.
Coalinga Roberts Rch.
Kettleman Hills
Parkfield 7NNW
Kettleman
Avenal 8SW
Corcoran E
Avenal 6SSW
M O N T E R E Y
CHOLAME
MUSTANG RIDGE
SALINAS VALLEY


Vermillion Valley
Mammoth Pool
Kaiser Meadow
Rose Marie Meadow
Crane Valley P.H.
Mt. Given
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek PH 2
Big Creek PH 1
Big Creek PH 8
Big Creek PH 3
Auberry 1NW
Summit Meadow
Meadow Lake
Mountain Rest
Bretz Mill
Soap Root Saddle
West Woodchuck
Dusy Bench
Wishon Lake
Rattlesnake Creek
Haslett Basin
Blasingame
Lower Big Creek
Balch PH
State Lakes
Trimmer R.S.
Pine Flat Dam
Barton Flat
Grant Grove
Mitchell Meadow
Vidette Meadow
Squaw Valley Fr.
Sanger 1NE
Pinehurst
Whitaker Forest
Moraine Creek
Benner Rch.
Beartrap Meadow
Miramonte Honor Camp
Orange Cove
Badger
Lodge Pole
Reedley MVFD
Giant Forest
Crabtree Meadow
Dinuba Alta I.D.
Chagoopa
Ash Mountain
Kingsburg 2S
Kaweah P.H. 3
Atwell
Three Rivers PH 2
Three Rivers PH 1
Ivanhoe I.D.
Terminus Dam
Lemon Cove
Three Rivers 6SE
Tunnel R.S.
Hockett Meadows
Visalia
Visalia 4E
Exeter Fouver
Wet Meadow
Rector
Milo 5NE
Mountain Home 2
Tulare
Lindsay
Springville Tule HDW
Manache Meadows
Hossack Radio
Springville 7ENE
Tule River Intake
Springville R.S.
Camp Nelson
Tule River PH
Rogers Camp
Quaking Aspen
Porterville 3W
Porterville
Success Dam
Eagle Creek
Angiola
Johnsondale
Pascoes
Round Meadow
Doublebunk Meadow
Homeland Dist. Sec 9
Kern R 3 Intake SCE
Uhl Ranger Station
B
C
7
1
2
0
3
5


Coalinga 14WNW
Oilfield FS
Huron Rch.
Westhaven
Coalinga
Fresno Co. Westside FD
Coalinga CDF
Coalinga 1SE
Chico Rancho
Kettleman Sta.
Tulare Dist
Coalinga Robert Rch.
Kettleman Hills
Parkfield 7NNW
Kettleman City
Avenal 8SW
Corcoran El Rico Sec.
Avenal 6SSW
Wilbu
Avenal Orchard Rch.
Devils Den SLF
Annette
Blackwells Corner 2W
Chalame-Twisselman
North Belri
Atascadero
S A N L U I S O B I S P O
Obispo
Pismo Beach
Arroyo Grande
S A N T A B A R

Tulare
Lindsay
Porterville 3W
Porterville
Success Dam
Angiolo
Vestal
Delano
Delano Gov't. Camp
Woody
Glenville
Glenville Fulton R.S.
Wofford Heights
Onyx
Weldon IWSW
Isabella Dam
Ten High Mine
Paso Rch.
Wasco
Paso Creek Rch.
U.S. Cotton Field St
Rosedale
Kern River P.H. No. 1
Kern Canyon
Bakersfield WB AP
BAKERSFIELD
Bakersfield IW
Buttonwillow
Bueno Vista Rch.
Mogunden
Bellevue
Walker Basin
Loraine
Old River 3W
Buena Vista M&L 2
DiGiorgio
Buena Vista Rch. M&L
Arvin
Keene
Taft KTKR Radio
Taft
Gin Yard
Tulefield
Tehachapi Airport
Tehachapi
Eighth Standard Rd.
Maricopa
Santiago Rch.
Moody Rch.
Cummings Valley 2
Maricopa F.S.
Citrus
Pattiway
San Emigdio Rch.
Tejon Rancho
Edmonston P.P.
Mil Potrero
Lebec
Chuchupate R.S.
Springville Tule HDW
Hassock
Springville 7ENE
Tule River Intake
Springville RS
Camp Nelson
Tule River PH
Rogers Camp
Quaking Aspen
Manache Meadows
Eagle Cr.
Johnsondale
Pascoes
Round Meadow
Deer Creek Rch.
Doublebunk Meadow
Kern R. 3 Intake SCE
Fountain Springs F.S.
Uhl Ranger Sta.
Posey 3E
Portuguese Meadow
Kern River P.H. 3
Mountain Home 2
Angiolo
Porterville
Delano
Wasco
Bakersfield
Taft
Maricopa
Tehachapi
Mojave
Lancaster
Lebec
Chuchupate
VENTURA
ANTELOPE VALLEY
KERN
TULARE
FRESNO
SAN BERNARDINO
LOS ANGELES
1
2
3
4
5
6

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

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

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

000 - Private Cooperators

001 - 399 Private Agencies

001 Kern County Land Company

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 Transportation Company

012 Miller and Lux, Inc.

013 Central California Irrigation District

400 - 799 Counties and municipalities

401 Hetch Hetchy Water Supply

404 Oakdale Irrigation 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

806 Department of Water Resources

808 Division of Forestry

809 Division of Highways

## TABLE A-1 (Cont.)

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

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agenc responsible for handling the station records. With few exceptions, the alpha order numbers assigned to t National Weather Service stations are the same as those used by the National Weather Service. The Nation Weather Service 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 Ended. If record continues this column is left blank.

Years Missing. 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 |
| San Luis Obispo | 40 |
| Stanislaus | 50 |
| Tulare | 54 |
| Tuolumne | 55 |
| Ventura | 56 |

TABLE A-1 (Cont.)

# INDEX OF CLIMATOLOGICAL STATIONS

## SAN JOAQUIN VALLEY

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C1 0009 | ACADEMY | 545 | SEC 14 | T12S | R22E | P | M | 36 | 52 | 58 | 119 | 32 | 25 | 000 | | 1958 | 1970 | | 10 |
| B6 0049 | AHWAHNEE 2 NNW | 2680 | SEC 24 | T06S | R20E | | M | 37 | 23 | 22 | 119 | 44 | 07 | 907 | | 1959 | | | 20 |
| C0 0204 | ANGIOLA | 205 | SEC 27 | T22S | R23E | D | M | 35 | 59 | 25 | 119 | 28 | 42 | 900 | | 1899 | | | 54 |
| B3 0209 | ANGELS CAMP | 1535 | SEC 34 | T03N | R13E | E | M | 38 | 04 | 20 | 120 | 32 | 18 | 003 | | 1908 | | | 05 |
| C7 0215 | ANNETTE | 2140 | SEC 19 | T26S | R17E | R | M | 35 | 38 | 48 | 120 | 10 | 12 | 000 | | 1952 | | | 15 |
| C0 0332 | ARVIN | 445 | SEC 23 | T31S | R29E | | M | 35 | 12 | 00 | 118 | 49 | 00 | 000 | | 1936 | | | 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 | 1969 | | 24 |
| C2 0374 | ATWELL | 6400 | SEC 12 | T17S | R30E | | M | 36 | 28 | 00 | 118 | 40 | 00 | 900 | | 1948 | | | 54 |
| B7 0379 | AUBERRY 1 NW | 2010 | SEC 06 | T10S | R23E | A | M | 37 | 05 | 40 | 119 | 29 | 50 | 900 | | 1915 | | | 10 |
| C0 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 |
| C0 0440 | BAKERSFIELD 1 W | 400 | SEC 26 | T29S | R27E | H | M | 35 | 22 | 41 | 119 | 02 | 17 | 900 | | 1913 | 1969 | | 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 POWERHOUSE | 1720 | SEC 12 | T12S | R26E | B | M | 36 | 54 | 33 | 119 | 05 | 15 | 900 | | 1921 | | | 10 |
| C1 0534 | BARTON FLAT | 3760 | SEC 01 | T13S | R28E | | M | 36 | 49 | | 118 | 53 | | 900 | | 1961 | | | 10 |
| B3 0569-60 | BEAR VALLEY ALPINE | 7100 | SEC 18 | T07N | R18E | E | M | 38 | 27 | 45 | 120 | 02 | 30 | 000 | | 1967 | | | 02 |
| B5 0570-80 | BEAR VALLEY | 2600 | 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 | 1971 | | 55 |
| C0 0631 | BELLEVUE | 369 | SEC 07 | T30S | R27E | B | M | 35 | 20 | 11 | 119 | 05 | 27 | 001 | | 1961 | 1969 | | 15 |
| C1 0676 | BENNER RANCH | 3525 | SEC 27 | T14S | R27E | C | M | 36 | 41 | 05 | 119 | 01 | 50 | 000 | | 1967 | 1973 | | 10 |
| 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 |
| C0 0875 | BLACKWELLS CORNER 2 WNW | 710 | SEC 35 | T26S | R19E | L | M | 35 | 37 | 15 | 119 | 53 | 40 | 900 | | 1944 | | 13 | 15 |
| C1 0880-80 | BLASINGAME | 1050 | SEC 22 | T11S | R23E | | M | 36 | 57 | 37 | 119 | 26 | 45 | 808 | | 1961 | | | 10 |
| C1 1069-11 | BRETZ MILL | 3250 | SEC 27 | T10S | R25E | D | M | 37 | 02 | 18 | 119 | 14 | 24 | 905 | | 1960 | 1967 | | 10 |
| C0 1174 | BUENA VISTA RCH | 310 | SEC 04 | T30S | R25E | R | M | 35 | 21 | 00 | 119 | 19 | 00 | 001 | | 1944 | 1969 | | 15 |
| C0 1175 | BUENA VISTA RCH M&L | 290 | SEC 28 | T31S | R26E | N | M | 35 | 11 | 42 | 119 | 11 | 43 | 002 | | 1955 | | | 15 |
| C0 1175-80 | BUENA VISTA RCH M&L 2 | 290 | SEC 08 | T31S | R25E | R | M | 35 | 14 | 25 | 119 | 18 | 23 | 002 | | 1962 | | | 15 |
| C0 1244 | BUTTONWILLOW | 270 | SEC 24 | T29S | R23E | K | 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 1425 | CAMP NELSON | 4560 | SEC 32 | T20S | R31E | R | M | 36 | 08 | 17 | 118 | 37 | 36 | 000 | | 1959 | 1970 | | 54 |
| C0 1490 | CANTUA RANCH | 295 | SEC 06 | T17S | R15E | N | M | 36 | 28 | 35 | 120 | 23 | 20 | 000 | | 1955 | | | 10 |
| C0 1557 | CARUTHERS 4 E | 265 | SEC 14 | T16S | R20E | B | M | 36 | 32 | 48 | 119 | 45 | 30 | 000 | | 1960 | 1971 | | 10 |
| B0 1580 | CASTLE A F B | 170 | SEC 32 | T06S | R13E | L | M | 37 | 22 | 03 | 120 | 34 | 20 | 902 | | 1951 | | | 24 |
| B6 1588 | CATHEYS VAL BULLRUN R | 1425 | SEC 34 | 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 1591 | CATHEYS VAL STONEHOUSE | 1210 | SEC 14 | T06S | R17E | M | M | 37 | 24 | 30 | 120 | 05 | 00 | 000 | | 1951 | 1970 | | 22 |
| C5 1647 | CHAGOOPA | 10390 | | T16S | R33E | | M | 36 | 30 | | 118 | 27 | | 901 | | 1964 | 1972 | | 54 |
| B4 1697 | CHERRY VALLEY DAM | 4765 | SEC 05 | T01N | R19E | L | M | 37 | 58 | 00 | 119 | 55 | 00 | 900 | | 1955 | | | 55 |
| C7 1716-20 | CHICO RANCHO | 1350 | SEC 20 | T21S | R14E | M | M | 36 | 05 | 13 | 120 | 29 | 22 | 000 | | 1969 | | | 10 |
| 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 | R | M | 35 | 35 | 00 | 120 | 07 | 00 | 000 | | 1951 | | | 40 |
| C6 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 | 1969 | | 15 |
| B7 1844 | CLOVER MEADOWS | 7002 | SEC 06 | T05S | R25E | | M | 37 | 32 | | 119 | 17 | | 900 | | 1946 | 1972 | | 20 |
| C0 1864 | COALINGA | 671 | SEC 32 | T20S | R15E | P | 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 |
| B6 1878 | COARSEGOLD | 2363 | SEC 05 | T08S | R21E | | M | 37 | 16 | 00 | 119 | 42 | 00 | 907 | | 1952 | | | 20 |
| C0 1885 | COIT RANCH HDQ | 278 | SEC 20 | T14S | R14E | D | M | 36 | 42 | 20 | 120 | 28 | 25 | 000 | | 1954 | | | 10 |
| B3 1944 | COLUMBIA | 2150 | SEC 11 | T02N | R14E | N | M | 38 | 02 | 22 | 120 | 24 | 37 | 000 | | 1969 | | | 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 | E | 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 | 1969 | | 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 | 10700 | SEC 01 | T16S | R33E | | M | 36 | 34 | 00 | 118 | 21 | 00 | 000 | | 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 | 1973 | | 15 |
| B6 2288 | DAULTON | 410 | SEC 26 | T09S | R18E | E | M | 37 | 07 | 18 | 119 | 59 | 00 | 000 | | 1946 | | | 20 |
| C3 2335-10 | DEER CREEK RCH | 950 | SEC 05 | T23S | R29E | R | M | 35 | 57 | 15 | 118 | 51 | 28 | 000 | | 1968 | 1969 | | 54 |

## TABLE A-1 (Cont.)

# INDEX OF CLIMATOLOGICAL STATIONS

### SAN JOAQUIN VALLEY

| 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 2346 | DELANO | 323 | SEC 11 | T25S | R25E | A | M | 35 | 46 | 23 | 119 | 14 | 37 | 900 | | 1876 | | | 15 |
| C0 2346-01 | DELANO GOV'T CAMP | 394 | SEC 28 | T25S | R26E | E | M | 35 | 48 | 35 | 119 | 11 | 00 | 904 | | 1952 | | | 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 | 013 | | 1949 | | 01 | 24 |
| B0 2389 | DENAIR 3 NNE | 137 | SEC 20 | T04S | R11E | | M | 37 | 34 | | 120 | 47 | | 900 | | 1964 | | | 50 |
| B0 2389-20 | DENAIR BARFIELD | 165 | SEC 20 | T05S | R12E | E | M | 37 | 29 | 18 | 120 | 40 | 47 | 000 | | 1965 | | | 24 |
| 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 | D | M | 36 | 32 | 32 | 119 | 23 | 30 | 000 | | 1944 | | | 54 |
| C7 2464 | DOMENGINE RCH | 1000 | SEC 29 | T18S | R15E | A | M | 36 | 20 | 24 | 120 | 21 | 30 | 000 | | 1959 | 1972 | | 10 |
| C7 2464-01 | DOMENGINE SPRING | 1700 | SEC 25 | T18S | R14E | K | M | 36 | 19 | 53 | 120 | 24 | 04 | 000 | | 1958 | 1970 | | 10 |
| B4 2473 | DON PEDRO RESERVOIR | 700 | SEC 35 | T02S | R14E | E | M | 37 | 43 | 00 | 120 | 24 | 18 | 904 | | 1940 | | | 55 |
| C3 2492 | DOUBLEBUNK MEADOW | 6200 | SEC 11 | T23S | R31E | | M | 35 | 57 | 00 | 118 | 36 | 00 | 900 | | 1955 | 1970 | | 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 | | 900 | | 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 |
| C0 2752-80 | EIGHTH STAND RCH | 338 | SEC 36 | T32S | R27E | | M | 35 | 06 | 05 | 119 | 01 | 45 | 001 | | 1963 | 1969 | | 15 |
| B0 2820 | EL SOLYO RCH | 50 | SEC 06 | T04S | R07E | B | M | 37 | 37 | 24 | 121 | 14 | 09 | 000 | | 1953 | 1972 | | 50 |
| B0 2860 | ESCALON SWANSON | 125 | SEC 03 | T02S | R09E | L | M | 37 | 47 | 20 | 121 | 58 | 15 | 000 | | 1944 | | | 39 |
| B5 2920 | EXCHEQUER RESERVOIR | 484 | SEC 13 | T04S | R15E | L | M | 37 | 35 | 06 | 120 | 16 | 11 | 900 | | 1935 | | | 22 |
| C0 2922 | EXETER FAUVER RCH | 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 | 1969 | | 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 3207 | FOUNTAIN SPRINGS F S | 800 | SEC 26 | T23S | R28E | Q | M | 35 | 53 | 31 | 118 | 55 | 58 | 808 | | 1965 | | | 54 |
| C0 3257 | FRESNO WB AP | 331 | SEC 30 | T13S | R21E | J | M | 36 | 46 | 10 | 119 | 43 | 02 | 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 |
| B7 3261-05 | FRIANT STILLWELL | 1009 | SEC 23 | T10S | R21E | B | M | 37 | 03 | 07 | 119 | 38 | 48 | 000 | | 1965 | | | 20 |
| 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 | 002 | | 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 R S | 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 | 1970 | | 55 |
| C1 3551 | GRANT GROVE | 6580 | SEC 32 | T13S | R28E | N | M | 36 | 44 | 29 | 118 | 57 | 40 | 900 | | 1924 | | | 54 |
| B5 3586-05 | GREELEY HILL 1 N | 3060 | SEC 17 | T02S | R17E | F | M | 37 | 45 | 55 | 120 | 07 | 40 | 000 | | 1965 | | | 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 | | 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 | | 1930 | | | 24 |
| B0 3694 | GUSTINE FOREMOST | 98 | SEC 08 | T08S | R09E | B | M | 37 | 15 | 28 | 120 | 59 | 53 | 000 | | 1928 | | | 24 |
| B0 3698 | 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 REFINERY | 245 | SEC 36 | T18S | R21E | Q | M | 36 | 18 | 59 | 119 | 39 | 10 | 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 | 1750 | SEC 01 | T06S | R18E | J | M | 37 | 26 | 00 | 119 | 56 | 24 | 000 | | 1949 | | | 22 |
| B3 3952 | HIGHLAND LAKES | 8700 | SEC 32 | T08N | R20E | Q | M | 38 | 29 | 48 | 119 | 47 | 48 | 900 | | 1960 | | | 02 |
| B0 3981 | HILMAR | 93 | SEC 22 | T06S | R10E | A | M | 37 | 24 | 10 | 120 | 50 | 59 | 000 | | 1948 | | | 24 |
| C2 4012 | HOCKETT MEADOWS | 8500 | SEC 07 | T18S | R31E | | M | 36 | 22 | 00 | 118 | 39 | 00 | 900 | | 1959 | | | 54 |
| B4 4015 | HODGDON MEADOW | 4640 | SEC 03 | T02S | R19E | | M | 37 | 48 | | 119 | 52 | | 907 | | 1967 | | | 55 |
| C0 4061-01 | HOMELAND DIST SEC 9 | 190 | SEC 09 | T23S | R22E | A | M | 35 | 56 | 53 | 119 | 35 | 30 | 002 | | 1952 | 1969 | | 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 (RADIO) | 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 | 1971 | | 55 |
| B3 4170 | HUNTERS DAM | 3220 | SEC 18 | T04N | R15E | K | M | 38 | 12 | 00 | 120 | 21 | 36 | 900 | | 1950 | | | 05 |
| B7 4176 | HUNTINGTON LAKE | 7020 | SEC 15 | T08S | R25E | R | M | 37 | 13 | 45 | 119 | 13 | 10 | 900 | | 1915 | | | 10 |
| C0 4188 | HURON RANCH | 335 | SEC 22 | T19S | R17E | | M | 36 | 15 | 41 | 120 | 06 | 05 | 000 | | 1951 | | | 10 |
| 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 | 000 | | 1952 | 1970 | | 22 |
| C5 4303 | ISABELLA DAM | 2660 | SEC 19 | T26S | R33E | P | M | 35 | 38 | 46 | 118 | 28 | 45 | 903 | | 1949 | | | 15 |
| C0 4312 | IVANHOE I D | 370 | SEC 36 | T18S | R25E | R | M | 36 | 24 | 15 | 119 | 12 | 21 | 000 | | 1954 | | | 54 |
| 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 |

## TABLE A-1 (Cont.)

# INDEX OF CLIMATOLOGICAL STATIONS

### SAN JOAQUIN VALLEY

| 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 4442 | KAISER MEADOWS | 9110 | SEC 26 | T07S | R26E | | M | 37 | 18 | 00 | 119 | 06 | 00 | 900 | | 1946 | | | 10 |
| 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 | | 1948 | | | 15 |
| C5 4513 | KERN CANYON | 700 | SEC 06 | T29S | R30E | B | M | 35 | 26 | 27 | 118 | 47 | 45 | 003 | | 1916 | | | 15 |
| 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 |
| C0 4534 | KETTLEMAN CITY | 310 | SEC 19 | T22S | R19E | C | 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 SE | 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 | 1972 | | 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 |
| B8 4979 | LITTLE PANOCHE DET RES | 677 | SEC 20 | T13S | R11E | | M | 36 | 47 | | 120 | 48 | | 900 | | 1968 | | | 10 |
| B0 4999-02 | LIVINGSTON CITY HALL | 130 | SEC 25 | T06S | R11E | E | M | 37 | 23 | 10 | 120 | 43 | 15 | 000 | | 1948 | | 07 | 24 |
| B0 4999-03 | LIVINGSTON 5 W | 112 | SEC 32 | T06S | R11E | D | M | 37 | 22 | 29 | 120 | 47 | 40 | 000 | | 1952 | | | 24 |
| C2 5026 | LODGEPOLE | 6735 | SEC 21 | T15S | R30E | | M | 36 | 36 | | 118 | 14 | | 900 | | 1968 | | | 54 |
| C6 5098 | LORAINE | 2720 | SEC 21 | T30S | R33E | K | 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 | 013 | | 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 |
| B8 5120 | LOS BANOS DET RES | 407 | SEC 12 | T11S | R09E | | M | 37 | 01 | | 120 | 56 | | 900 | | 1968 | | | 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 | 1967 | | 10 |
| 84 5160 | LOWER KIBBEY RIDGE | 6500 | SEC 22 | T02N | R19E | | M | 38 | 01 | 00 | 119 | 53 | 00 | 900 | | 1948 | 1971 | | 55 |
| 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 | 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 | | | 20 |
| B0 5303 | MANTECA | 44 | SEC 04 | T02S | R07E | H | M | 37 | 47 | | 121 | 12 | | 900 | | 1964 | | | 39 |
| C7 5338 | MARICOPA | 680 | SEC 31 | T12N | R23W | N | S | 35 | 04 | 48 | 119 | 22 | 58 | 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 | 000 | | 1958 | | | 22 |
| B6 5346-04 | MARIPOSA 8 ESE | 2780 | SEC 06 | T06S | R20E | E | M | 37 | 26 | 30 | 119 | 49 | 37 | 000 | | 1952 | | | 22 |
| B5 5352 | MARIPOSA RS | 2100 | SEC 15 | T05S | R18E | F | M | 37 | 30 | 04 | 119 | 59 | 05 | 808 | | 1943 | | | 22 |
| C7 5372-01 | MARTINEZ SPRING | 1875 | SEC 26 | T18S | R14E | B | M | 36 | 20 | 24 | 120 | 24 | 54 | 000 | | 1959 | 1970 | | 10 |
| B4 5400 | MATHER | 4518 | SEC 02 | T01S | R19E | G | M | 37 | 53 | 25 | 119 | 51 | 10 | 900 | | 1930 | | 21 | 55 |
| B5 5460 | MCDIERMID STA | 2990 | SEC 33 | T02S | R17E | H | M | 37 | 43 | 18 | 120 | 05 | 48 | 000 | | 1959 | 1969 | | 22 |
| C7 5480-01 | MCKITTRICK F S | 1051 | SEC 21 | T30S | R22E | E | M | 35 | 18 | 20 | 119 | 37 | 20 | 000 | | 1956 | | | 15 |
| B7 5496 | MEADOW LAKE | 4485 | SEC 11 | T10S | R23E | F | M | 37 | 04 | 38 | 119 | 26 | 00 | 900 | | 1948 | | | 10 |
| B3 5511 | MELONES DAM | 900 | SEC 11 | T01N | R13E | K | M | 37 | 57 | 10 | 120 | 30 | 53 | 404 | | 1955 | 1969 | | 55 |
| B0 5526 | MENDOTA 1 NNW | 172 | SEC 25 | T13S | R14E | H | M | 36 | 46 | 23 | 120 | 23 | 09 | 013 | | 1941 | | | 10 |
| C0 5526-04 | MENDOTA MURIETTA RCH | 261 | SEC 04 | T15S | R14E | M | M | 36 | 39 | 05 | 120 | 27 | 20 | 806 | | 1958 | | | 10 |
| B0 5528 | MENDOTA DAM | 166 | SEC 19 | T13S | R15E | G | M | 36 | 47 | 15 | 120 | 22 | 12 | 900 | | 1873 | | | 10 |
| B0 5530 | MENDOTA V D L FARMS | 230 | SEC 32 | T13S | R14E | Q | M | 36 | 44 | 58 | 120 | 28 | 00 | 000 | | 1948 | | | 10 |
| B0 5532 | MERCED FIRE STN NO 2 | 169 | SEC 25 | T07S | R13E | | M | 37 | 17 | 43 | 120 | 29 | 13 | 900 | | 1872 | | | 24 |
| 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 |
| C3 5669 | MILO 5 NE | 3400 | SEC 18 | T19S | R30E | C | M | 36 | 16 | 40 | 118 | 46 | 15 | 900 | | 1957 | | | 54 |
| C6 5669-05 | MIL POTRERO | 5800 | SEC 24 | T09N | R22W | E | S | 34 | 51 | 02 | 119 | 11 | 18 | 000 | | 1966 | | | 15 |
| C2 5680 | MINERAL KING | 7975 | SEC 22 | T17S | R31E | | M | 36 | 26 | 00 | 118 | 35 | 00 | 900 | | 1956 | 1969 | | 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 | 1969 | | 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 29 | T03S | R09E | M | M | 37 | 38 | 36 | 121 | 00 | 29 | 900 | | 1942 | | | 50 |
| C5 5777 | MONACHE MEADOWS | 8000 | SEC 10 | T20S | R35E | | M | 36 | 13 | 00 | 118 | 10 | 00 | 900 | | 1940 | 1971 | | 54 |
| C0 5822-80 | MOODY RCH | 405 | SEC 34 | T32S | R28E | | M | 35 | 06 | 15 | 118 | 58 | 00 | 001 | | 1963 | 1969 | | 15 |
| C1 5832 | MORAINE CREEK | 8840 | | T14S | R31E | | M | 36 | 43 | | 118 | 34 | | 903 | | 1964 | | | 54 |
| C3 5887 | MOUNTAIN HOME 2 | 5360 | SEC 27 | T19S | R30E | J | M | 36 | 14 | 30 | 118 | 42 | 54 | 901 | | 1963 | | | 54 |
| B7 5927 | MT GIVENS | 9500 | SEC 26 | T07S | R26E | E | M | 37 | 17 | | 119 | 06 | | 004 | | 1963 | 1969 | | 10 |
| B0 6168 | NEWMAN 2 NW | 108 | SEC 12 | T07S | R08E | E | M | 37 | 20 | 33 | 122 | 50 | 00 | 900 | | 1889 | | | 50 |

TABLE A-1 (Cont.)

# INDEX OF CLIMATOLOGICAL STATIONS

## SAN JOAQUIN VALLEY

| 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 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 |
| 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 | | 1952 | | | 10 |
| C7 6395 | OILFIELDS JOAQUIN RDG | 3620 | SEC 01 | T19S | R14E | | M | 36 18 00 | 120 24 00 | 900 | | 1949 | | | 10 |
| C0 6414 | OLD RIVER 3 W | 334 | SEC 35 | T30S | R26E | C | M | 35 16 | 119 16 | 806 | | 1965 | | | 15 |
| 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 | 013 | | 1896 | | | 50 |
| B5 6552 | OSTRANDER LAKE | 8600 | SEC | 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 |
| 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 | | 1957 | | | 35 |
| 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 | 1971 | | 55 |
| B0 6746-01 | PATTERSON | 100 | SEC 30 | T05S | R08E | | M | 37 28 00 | 121 07 00 | 000 | | 1912 | | | 50 |
| B6 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 | 1969 | | 54 |
| B8 6847 | PFEIFFER RCH | 1615 | SEC 19 | T12S | R08E | C | M | 36 52 59 | 121 08 12 | 000 | | 1954 | 1971 | | 24 |
| B3 6893 | PINECREST SUMMIT R S | 5600 | SEC 21 | T04N | R18E | | M | 38 12 | 119 59 | 905 | | 1964 | | | 55 |
| B3 6893-01 | PINECREST STRAWBERRY | 5620 | SEC 22 | T04N | R18E | F | M | 38 11 25 | 119 59 12 | 003 | | 1922 | | | 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 |
| 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 7098-07 | POSO CREEK | 670 | SEC 28 | T27S | R27E | F | M | 35 33 15 | 119 04 25 | 000 | | 1967 | 1969 | | 15 |
| C0 7098-11 | POSO RCH | 370 | SEC 03 | T27S | R25E | J | M | 35 36 30 | 119 15 45 | 001 | | 1913 | 1969 | | 15 |
| B0 7099-11 | POSO CANAL CO HDQ | 125 | SEC 12 | T11S | R13E | P | M | 36 58 57 | 120 30 04 | 013 | | 1955 | | | 10 |
| C5 7179 | QUAKING ASPEN | 7200 | SEC 08 | T21S | R32E | | M | 36 07 00 | 118 32 00 | 900 | | 1955 | 1970 | | 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 | 1970 | | 20 |
| B6 7272-01 | RAYMOND 10 N | 1640 | SEC 32 | T06S | R19E | A | M | 37 22 24 | 119 54 24 | 000 | | 1957 | | | 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 | 808 | | 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 | 1972 | | 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 | 1969 | | 15 |
| 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 | 1971 | | 54 |
| B4 7623 | SACHES SPRINGS | 7900 | SEC 25 | T03N | R19E | | M | 38 06 00 | 119 51 00 | 900 | | 1948 | 1971 | | 55 |
| C0 7753 | SAN EMIGDIO RCH | 1450 | SEC 36 | T11N | R22W | L | S | 34 59 45 | 119 10 59 | 900 | | 1901 | 1969 | | 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 | J | 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 | 1970 | | 10 |
| 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 | 99 | SEC 31 | T09S | R12E | P | M | 37 06 07 | 120 42 04 | 013 | | 1944 | | | 24 |
| C0 7987-80 | SANTIAGA RANCH | 437 | SEC 27 | T12N | R22W | | S | 35 05 35 | 119 12 35 | 000 | | 1963 | 1970 | | 15 |
| B0 8316 | SNELLING | 259 | SEC 04 | T05S | R14E | | M | 37 31 24 | 120 26 18 | 000 | | 1882 | | 19 | 24 |
| B0 8316-05 | SNELLING 3 WNW | 300 | SEC 36 | T04S | R13E | J | M | 37 32 35 | 120 28 57 | 000 | | 1949 | | | 24 |
| B5 8318 | SNOW FLAT | 8700 | SEC 19 | T01S | R23E | | M | 37 50 00 | 119 30 00 | 900 | | 1947 | 1972 | | 22 |
| C1 8323-01 | SOAPROOT SADDLE | 3830 | SEC 28 | T10S | R25E | P | M | 37 01 30 | 119 15 06 | 905 | | 1960 | 1967 | | 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 28 | T28S | R21E | R | M | 35 27 23 | 119 42 37 | 000 | | 1938 | | | 15 |
| B0 8378 | SOUTH DOS PALOS | 116 | SEC 22 | T11S | R12E | E | M | 37 58 45 | 120 38 48 | 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 27 | T04N | R17E | H | M | 38 10 06 | 120 06 08 | 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 |
| C1 8474-80 | SQUAW VALLEY FR | 1750 | SEC 35 | T13S | R25E | P | M | 36 44 58 | 119 12 21 | 808 | | 1961 | | | 10 |
| B3 8499 | STANISLAUS PH | 1130 | SEC 06 | T03N | R15E | L | M | 38 08 23 | 120 22 10 | 900 | | 1957 | | | 55 |

## TABLE A-1 (Cont.)

# INDEX OF CLIMATOLOGICAL STATIONS

### SAN JOAQUIN VALLEY

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C1 8510 | STATE LAKES | 10300 | SEC 34 | T11S | R31E | | M | 36 | 56 | 00 | 118 | 35 | 00 | 900 | | 1955 | | | 10 |
| 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 | 900 | | 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 AIRPORT | 3975 | SEC 21 | T32S | R33E | C | M | 35 | 08 | 05 | 118 | 26 | 31 | 900 | | 1940 | | | 15 |
| C0 8839 | TEJON RANCHO | 1425 | SEC 24 | T11N | R18W | H | S | 35 | 01 | 35 | 118 | 44 | 38 | 900 | | 1895 | | | 15 |
| C5 8857-10 | TEN HIGH MINE | 5200 | SEC 03 | T27S | R31E | A | M | 35 | 36 | 49 | 118 | 37 | 30 | 000 | | 1968 | 1971 | | 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 | 1970 | | 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 | 1971 | | 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 | C | M | 36 | 37 | 57 | 120 | 14 | 13 | 000 | | 1953 | | | 10 |
| B6 9020-15 | TRIANGLE-DESMOND | 3150 | SEC 19 | T05S | R20E | A | M | 37 | 29 | 10 | 119 | 49 | 06 | 000 | | 1965 | | | 22 |
| 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 | 1969 | | 16 |
| C0 9052 | TULEFIELD | 300 | SEC 18 | T32S | R28E | B | M | 35 | 09 | 00 | 119 | 01 | 00 | 900 | | 1948 | 1970 | | 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 9062-90 | TUOLUMNE MAINT YARD | 2690 | SEC 05 | T01N | R16E | R | M | 37 | 57 | 55 | 120 | 13 | 55 | 000 | | 1969 | | | 55 |
| 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 28 | T05S | R09E | D | M | 37 | 28 | 22 | 120 | 59 | 30 | 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 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 | M | 36 | 19 | 45 | 119 | 17 | 18 | 900 | | 1903 | | | 54 |
| C0 9369 | VISALIA 4 E | 357 | SEC 36 | T18S | R25E | D | M | 36 | 19 | 32 | 119 | 13 | 24 | 000 | | 1959 | 1970 | | 54 |
| C5 9417-10 | WALKER BASIN | 3450 | SEC 10 | T29S | R32E | E | M | 35 | 25 | 17 | 118 | 32 | 35 | 000 | | 1968 | | | 15 |
| 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 |
| B6 9556-80 | WESTFALL R S | 4795 | SEC 35 | T05S | R21E | M | M | 37 | 26 | 58 | 119 | 38 | 59 | 905 | | 1961 | 1971 | | 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 |
| C1 9600 | WEST WOODCHUCK | 9100 | SEC 28 | T10S | R28E | | M | 37 | 01 | 48 | 118 | 55 | 06 | 903 | | 1969 | | | 10 |
| C5 9602 | WET MEADOW | 8950 | SEC 13 | T18S | R32E | R | M | 36 | 20 | 56 | 118 | 34 | 16 | 900 | | 1959 | | | 54 |
| C2 9629 | WHITAKER FOREST | 5360 | SEC 16 | T14S | R28E | Q | M | 36 | 42 | 05 | 118 | 55 | 56 | 815 | | 1966 | | | 54 |
| B6 9640-80 | WHITE ROCK PRESTON | 984 | SEC 07 | T07S | R18E | K | M | 37 | 20 | 12 | 120 | 02 | 18 | 903 | | 1950 | | | 22 |
| C0 9670-80 | WILBUR DITCH | 210 | SEC 18 | T23S | R21E | D | M | 35 | 36 | 10 | 119 | 45 | 10 | 000 | | 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 | | 1894 | | | 15 |
| C4 9805 | WOODY | 1630 | SEC 03 | T26S | R29E | C | M | 35 | 42 | 02 | 118 | 50 | 34 | 808 | | 1956 | | | 15 |
| B5 9855 | YOSEMITE NAT PARK | 3985 | SEC 20 | T02S | R22E | | M | 37 | 45 | 00 | 119 | 35 | 00 | 900 | | 1904 | | | 22 |
| ADDITIONAL STATIONS, 1971-72 | | | | | | | | | | | | | | | | | | | |
| B0 5738-35 | MODESTO 6 SW | 50 | SEC 03 | T05S | R08E | C | M | 37 | 32 | 05 | 121 | 04 | 30 | | | 1970 | | | 50 |
| B7 5893 | MOUNTAIN REST | 4100 | SEC 17 | T10S | R24E | R | M | 37 | 03 | 18 | 119 | 22 | 12 | 905 | | 1960 | | | 10 |
| C0 4564-20 | KINGSBURG 2 S | 286 | SEC 02 | T17S | R22E | | M | 36 | 30 | | 119 | 33 | | 915 | | 1970 | | | 16 |
| C6 2683-20 | EDMONSTON P P | 1300 | SEC 17 | T10N | R18W | M | S | 34 | 56 | 42 | 118 | 49 | 30 | 806 | | 1971 | 1973 | | 15 |
| C5 6724-50 | PASCOES | 9130 | SEC 36 | T22S | R33E | | M | 35 | 58 | | 118 | 21 | | 903 | | 1971 | | | 54 |
| B7 8139-40 | SHAVER 1 S | 5480 | SEC 02 | T10S | R24E | J | M | 37 | 05 | 20 | 119 | 18 | 56 | | | 1973 | | | 10 |
| B7 8139 50 | SHAVER 3 S | 4900 | SEC 09 | T10S | R24E | R | M | 37 | 04 | 08 | 119 | 21 | 02 | | | 1973 | | | 10 |
| C0 3257 30 | FRESNO DWR | 313 | SEC 26 | T13S | R20E | C | M | 36 | 46 | 42 | 119 | 46 | 03 | | | 1968 | | | 10 |
| C0 5151 30 | LOST HILLS DWR | 312 | SEC 03 | T27S | R21E | | M | 35 | 36 | 52 | 119 | 41 | 40 | | | 1973 | | | 15 |
| C0 9724 60 | WIND GAP | 814 | SEC 26 | T11N | R20W | | S | 35 | 01 | 05 | 118 | 58 | 31 | | | 1974 | | | 15 |
| B7 5893 | MOUNTAIN REST | 4100 | SEC 17 | T10S | R24E | R | M | 37 | 03 | 18 | 119 | 22 | 12 | | | 1960 | | | 10 |
| B6 6321 85 | OAKHURST NO 2 | 2480 | SEC 14 | T07S | R21E | P | M | 37 | 19 | 00 | 119 | 38 | 53 | | | 1969 | | | 10 |
| B0 8322 | SNOW RANCH | 240 | SEC 12 | T01N | R10E | Q | M | 37 | 57 | | 120 | 49 | | | | 1934 | | | 50 |
| B5 8858 40 | TENAYA LAKE | 8150 | SEC 21 | T01S | R23E | B | M | 37 | 50 | 14 | 119 | 27 | 00 | | | 1972 | | | 22 |
| B4 8931 50 | TIOGA PASS | 10000 | SEC 31 | T01N | R25E | B | M | 37 | 54 | 39 | 119 | 15 | 30 | | | 1972 | | | 55 |

TABLE A-2

PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

| | |
|---|---|
| E | Wholly or partially estimated. |
| T | Trace, an amount too small to measure. |
| NR | Data not received before publication. |
| RB | Record begins. |
| RE | Record ends. |
| INC | Incomplete data. |

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fisher & Porter recording rain gages are used; these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2 (Cont.)

# PRECIPITATION DATA

PRECIPITATION IN INCHES

| STATION NAME | TOTAL JULY 1 TO JUNE 30 | 1973 | | | | | | 1974 | | | | | | | | | TOTAL OCT 1 TO SEPT 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JULY | AUG | SEPT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUNE | JULY | AUG | SEP | |
| SAN JOAQUIN RIVER BASIN | | | | | | | | | | | | | | | | | |
| SAN JOAQUIN VAL FL B0 | | | | | | | | | | | | | | | | | |
| CASTLE AFB | 14.33 | 0.00 | 0.00 | 0.00 | 2.28 | 1.52 | 4.17 | 1.74 | 0.81 | 2.25 | 1.50 | 0.00 | 0.06 | 0.64 | 0.00 | 0.00 | 14.97 |
| DELTA RCH | 8.45 | 0.00 | 0.00 | T | 1.08 | 1.35 | 1.98 | 1.10 | 0.32 | 1.94 | 0.68 | 0.00 | 0.00 | 0.36 | 0.00 | 0.00 | 8.81 |
| DENAIR BARFIELD | 13.63 | 0.00 | 0.00 | 0.00 | 1.39 | 2.96 | 3.04 | 1.98 | 0.63 | 2.43 | 1.00 | 0.00 | 0.20 | 0.69 | 0.00 | 0.00 | 14.32 |
| FANCHER RCH CAMP #3 | NR | 0.00 | 0.00 | 0.00 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| GUSTINE 5 SW | 10.02 | 0.00 | 0.00 | 0.00 | 1.31 | 1.45 | 2.83 | 1.51 | 0.07 | 2.23 | 0.52 | 0.10 | 0.00 | 0.32 | 0.00 | 0.00 | 10.34 |
| GUSTINE SNYDER | 9.17 | 0.00 | 0.00 | 0.00 | 1.20 | 1.30 | 2.58 | 1.82 | 0.16 | 1.57 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.17 |
| GUSTINE FOREMOST | 10.40 | 0.00 | 0.00 | 0.00 | 1.53 | 1.91 | 2.64 | 1.46 | 0.09 | 2.14 | 0.63 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 10.77 |
| GUSTINE 7 SSW | 9.48 | 0.00 | 0.00 | 0.00 | 1.30 | 1.86 | 2.39 | 1.42 | 0.24 | 1.72 | 0.50 | 0.05 | 0.00 | 0.30 | 0.00 | 0.00 | 9.78 |
| HILMAR | 8.77 | 0.00 | 0.00 | T | 1.83 | 1.49 | 2.11 | 1.19 | 0.24 | 1.17 | 0.64 | 0.00 | 0.10 | 0.17 | 0.00 | 0.00 | 8.94 |
| LE GRAND 6 N | 13.39 | 0.00 | 0.00 | 0.00 | 1.86 | 2.16 | 3.24 | 1.82 | 0.57 | 2.47 | 1.27 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 13.46 |
| LIVINGSTON CITY HALL | 11.15 | 0.00 | 0.00 | 0.01 | 2.18 | 1.36 | 3.13 | 1.71 | 0.64 | 1.16 | 0.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.14 |
| LIVINGSTON 5 W | 10.92 | 0.00 | 0.00 | 0.00 | 1.83 | 1.35 | 2.96 | 1.47 | 0.37 | 2.16 | 0.78 | 0.00 | 0.00 | 0.35 | 0.00 | 0.00 | 11.27 |
| LOS BANOS 5 S | 7.37E | 0.00 | 0.00 | 0.00 | 0.88 | 0.50 | 2.04 | 1.50E | 0.27 | 1.71 | 0.47 | 0.00 | 0.00 | 0.84 | 0.00 | 0.00 | 8.21E |
| LOS BANOS FIELD STA | 7.65 | 0.00 | 0.00 | T | 0.97 | 0.84 | 2.01 | 1.57 | 0.10 | 1.77 | 0.39 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 8.05 |
| MADERA I D | 10.24 | 0.00 | 0.00 | 0.00 | 1.29 | 1.04 | 2.27 | 2.62 | 0.47 | 1.84 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.24 |
| MENDOTA 1 NNW | 6.95 | 0.00 | 0.00 | 0.00 | 0.83 | 0.82 | 1.11 | 1.67 | 0.19 | 1.98 | 0.35 | 0.00 | 0.00 | T | 0.00 | 0.00 | 6.95 |
| MENDOTA VDL FARMS | 7.33 | 0.00 | 0.00 | 0.00 | 0.69 | 1.12 | 1.07 | 1.94 | 0.24 | 1.87 | 0.40 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 7.50 |
| MERCED FANCHER RCH | 14.55 | 0.00 | 0.00 | 0.00 | 1.97 | 2.03 | 3.30 | 2.38 | 0.76 | 2.49 | 1.57 | 0.00 | 0.05 | 0.18 | 0.00 | 0.00 | 14.73 |
| MODESTO 6 SW | 14.02 | 0.00 | 0.00 | 0.00 | 2.80 | 1.61 | 4.23 | 1.74 | 0.39 | 2.09 | 0.97 | 0.13 | 0.06 | 0.64 | 0.00 | 0.00 | 14.66 |
| MODESTO KTRB | 14.41E | 0.00 | 0.00 | T | 1.98 | 1.81 | 4.25 | 1.37 | 0.57 | 2.56 | 1.57 | 0.00E | 0.30E | 0.50E | 0.00 | 0.00 | 14.91E |
| OAKDALE | 18.45 | 0.00 | 0.00 | T | 2.51 | 2.27 | 4.03 | 2.22 | 0.66 | 3.88 | 2.18 | 0.07 | 0.63 | 0.83 | 0.00 | 0.00 | 19.28 |
| ORESTIMBA | 10.84 | 0.00 | 0.00 | 0.00 | 1.64 | 1.74 | 2.11 | 1.88 | 0.23 | 2.40 | 0.84 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 11.09 |
| PANOCHE WATER DIST | 7.62 | 0.00 | 0.00 | 0.00 | 0.66 | 0.86 | 1.57 | 1.88 | 0.31 | 1.86 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.62 |
| PATTERSON | 10.34 | 0.00 | 0.00 | 0.00 | 2.03 | 1.12 | 2.56 | 1.36 | 0.16 | 2.09 | 0.90 | 0.05 | 0.07 | 0.63 | 0.00 | 0.00 | 10.97 |
| POSO CANAL CO NQ | 7.73 | 0.00 | 0.00 | 0.00 | 1.12 | 0.59 | 1.17 | 1.50 | 0.38 | 2.33 | 0.64 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 | 7.98 |
| RIPON | 13.87 | 0.00 | 0.00 | T | 1.82 | 2.10 | 3.43 | 1.92 | 0.52 | 2.05 | 1.83 | 0.00 | 0.20 | 0.73 | T | 0.00 | 14.60 |
| SAN LUIS CANAL CO HO | 7.86 | 0.00 | 0.00 | T | 0.96 | 0.67 | 1.98 | 1.53 | 0.12 | 1.78 | 0.82 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 8.31 |
| SNELLING | 14.02 | 0.00 | 0.00 | 0.00 | 1.63 | 1.91 | 3.98 | 2.03 | 0.71 | 2.40 | 1.32 | 0.00 | 0.04 | 0.34 | 0.00 | 0.00 | 14.36 |
| SNELLING 3 WNW | 13.04 | 0.00 | 0.00 | 0.00 | 1.96 | 1.67 | 3.64 | 1.59 | 0.51 | 2.17 | 1.28 | 0.00 | 0.22 | 0.25 | 0.00 | 0.00 | 13.29 |
| SNOW RANCH | Inc | Inc | Inc | Inc | 1.80 | 2.60 | 4.85 | 1.86 | 0.63 | 4.20 | 2.75 | 0.00 | 1.65 | 0.00 | 0.00 | 0.00 | 20.34 |
| SOUTH DOS PALOS | 8.15 | 0.00 | 0.00 | 0.00 | 0.91 | 0.71 | 1.84 | 2.05 | 0.05 | 1.84 | 0.73 | 0.00 | 0.02 | 0.06 | 0.00 | 0.00 | 8.21 |
| TURLOCK 5 SW | 11.28 | 0.00 | 0.00 | 0.00 | 2.30 | 1.49 | 2.67 | 0.91 | 0.51 | 2.51 | 0.84 | 0.00 | 0.05 | 0.60 | 0.00 | 0.00 | 11.88 |
| TURLOCK 8 WSW | 11.43 | 0.00 | 0.00 | 0.00 | 2.19 | 1.10 | 3.08 | 1.46 | 0.36 | 2.08 | 1.16 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 | 11.83 |
| WESTLEY | 10.72 | 0.00 | 0.00 | 0.00 | 1.81 | 1.42 | 2.92 | 1.58 | 0.22 | 1.66 | 1.11 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 11.17 |
| STANISLAUS RIVER 83 | | | | | | | | | | | | | | | | | |
| ANGELS CAMP | 38.76 | 0.00 | 0.00 | 0.09 | 2.93 | 8.48 | 7.37 | 4.34 | 1.68 | 9.81 | 3.62 | 0.01 | 0.43 | 1.95 | 0.00 | 0.00 | 40.62 |
| BEARDSLEY DAM | 43.27 | 0.05 | 0.18 | 0.07 | 3.65 | 9.88 | 9.10 | 5.08 | 1.84 | 8.18 | 5.15 | 0.02 | 0.07 | 2.57 | 0.10 | 0.00 | 45.64 |
| BEAR VALLEY-ALPINE | Inc | NR | NR | NR | 4.40E | 12.80E | 12.40E | 8.09 | 3.39 | 9.87 | 3.88 | 0.00 | 0.00 | 1.82 | 0.00 | 0.02 | 56.67E |
| COLUMBIA | 34.62 | 0.00 | 0.00 | T | 3.34 | 6.40 | 6.99 | 4.98 | 1.37 | 6.85 | 4.69 | 0.00 | 0.00 | 1.68 | 0.00 | 0.00 | 36.30 |
| COPPEROPOLIS | 27.56E | 0.00 | 0.00 | 0.09 | 2.64 | 5.30 | 6.17 | 2.41 | 1.18 | * E | 9.03 | 0.00 | 0.74 | 1.49 | 0.00 | 0.00 | 28.96E |
| PINECREST STRAWBERRY | 45.59 | 0.00 | 0.15 | 0.08 | 4.04 | 10.97 | 8.36 | 5.43 | 1.93 | 9.15 | 5.33 | 0.10 | 0.05 | 2.33 | 0.24 | 0.00 | 47.93 |
| SPRING GAP FOREBAY | 46.18 | 0.00 | 0.00 | 0.12 | 3.95 | 11.81 | 9.12 | 4.66 | 1.67 | 9.05 | 5.67 | 0.08 | 0.05 | 2.62 | 0.07 | 0.00 | 48.75 |
| TULLOCH DAM | 24.94 | 0.00 | T | T | 2.27 | 3.48 | 5.97 | 2.71 | 1.41 | 5.28 | 2.97 | 0.00 | 0.85 | 1.61 | 0.00 | 0.00 | 26.55 |
| TUOLUMNE RIVER B4 | | | | | | | | | | | | | | | | | |
| DON PEDRO RES | 22.29 | 0.00 | 0.00 | 0.18 | 2.56 | 3.75 | 5.16 | 3.19 | 0.93 | 4.12 | 2.36 | 0.00 | 0.04 | 0.52 | 0.00 | 0.00 | 22.63 |
| EARLY INTAKE PH | 36.63 | 0.00 | 0.12 | 0.04 | 2.61 | 8.20 | 7.31 | 4.57 | 1.23 | 7.64 | 4.91 | 0.00 | 0.00 | 0.80 | 0.00 | 0.00 | 37.27 |
| HODGDON MEADOW | 48.05 | 0.00 | 0.08 | T | 3.86 | 11.93 | 9.05 | 4.36 | 0.91 | 12.67 | 5.08 | 0.11 | 0.00 | 1.53 | T | 0.00 | 49.50 |
| MOCCASIN | 26.38 | 0.00 | 0.00 | T | 2.88 | 4.55 | 6.05 | 3.87 | 1.18 | 5.02 | 2.82 | 0.00 | 0.01 | 0.82 | 0.02 | 0.00 | 27.22 |
| TUOLUMNE MAINT YARD | 38.96 | 0.00 | 0.00 | T | 3.90 | 7.99 | 8.99 | 5.30 | 2.14 | 5.94 | 4.65 | 0.00 | 0.05 | 1.91 | 0.00 | 0.00 | 40.87 |
| MERCED RIVER 85 | | | | | | | | | | | | | | | | | |
| BEAR VALLEY | 37.17E | 0.00 | 0.00 | 0.00 | 2.67 | 8.40E | 10.87 | 3.33 | 1.30 | 6.14 | 4.46 | 0.00 | 0.00 | 0.72 | 0.16 | 0.00 | 38.05E |
| CATHEYS VALLEY 3 NNW | 25.75 | 0.00 | 0.00 | 0.00 | 2.80 | 4.25 | 4.90 | 3.95 | 1.05 | 5.23 | 3.55 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | 26.35 |
| COULTERVILLE FFS | 31.94 | 0.00 | 0.04 | 0.05 | 3.53 | 5.55 | 2.78 | 7.81 | 1.78 | 5.12 | 5.28 | 0.00 | 0.00 | 1.59 | 0.00 | 0.00 | 33.44 |
| GREELEY HILL 1 N | 40.56 | 0.00 | 0.00 | 0.08 | 3.28 | 7.89 | 9.40 | 4.84 | 1.96 | 7.65 | 5.46 | 0.00 | 0.00 | 1.40 | 0.00 | 0.00 | 41.88 |
| HORNITOS ERICKSON RCH | 22.27 | 0.00 | 0.00 | 0.00 | 2.92 | 3.86 | 4.53 | 3.01 | 1.15 | 4.03 | 2.77 | 0.00 | 0.00 | 0.51 | 0.00 | 0.00 | 22.78 |
| HORNITOS GILES RCH | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| HORNITOS USCE | Inc | 0.00 | 0.00 | 0.00 | 2.25 | 3.22 | 3.80 | NR | 0.82 | 3.05 | NR | 0.00E | 0.00E | NR | 0.00E | 0.00E | Inc |
| JERSEYDALE G S | 40.17 | 0.00 | 0.03 | 0.00 | 3.47 | 8.29 | 6.28 | 6.48 | 0.94 | 10.76 | 3.92 | 0.00 | T | 0.91 | 0.00 | 0.00 | 41.05 |
| MARIPOSA REYNOLDS | 32.40 | 0.00 | 0.00 | 0.03 | 3.28 | 5.96 | 5.99 | 4.36 | 1.21 | 6.56 | 5.01 | 0.00 | 0.00 | 0.74 | 0.00 | 0.00 | 33.11 |
| MARIPOSA R S | Inc | 0.00E | 0.00E | 0.00E | NR | 6.21 | 5.58 | 4.24 | 1.53 | 7.37 | NR | 0.00E | 0.00E | NR | 0.00E | 0.00E | Inc |
| FRESNO-CHOWCHILLA R 86 | | | | | | | | | | | | | | | | | |
| AHWAHNEE 2 NNW | 31.74 | 0.00 | T | 0.08 | 3.61 | 6.04 | 5.62 | 5.30 | 0.92 | 5.95 | 4.22 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 31.76 |
| COARSEGOLD | 31.12 | 0.06 | T | 0.39 | 3.09 | 5.42 | 4.59 | 5.99 | 1.22 | 6.16 | 4.20 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 30.78 |
| DAULTON | 14.37 | 0.00 | 0.00 | 0.00 | 2.03 | 1.87 | 2.63 | 2.67 | 0.66 | 3.27 | 1.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.37 |
| HIDDEN VALLEY | 30.02 | 0.00 | T | 0.02 | 2.85 | 6.84 | 4.42 | 4.29 | 2.31 | 5.62 | 3.67 | 0.00 | 0.00 | 0.64 | 0.00 | 0.00 | 30.64 |
| MARIPOSA 8 ESE | 36.14 | 0.00 | 0.00 | 0.00 | 3.18 | 7.25 | 6.27 | 5.28 | 1.07 | 8.89 | 4.20 | T | 0.00 | 0.34 | 0.00 | 0.00 | 36.48 |
| OAKHURST | 30.93 | 0.00 | 0.00 | 0.00 | 3.19 | 5.95 | 5.59 | 5.29 | 1.38 | 5.08 | 4.45 | T | 0.00 | 0.10 | 0.00 | 0.00 | 31.03 |
| OAKHURST #2 | 32.31 | 0.00 | 0.01 | 0.06 | 3.34 | 8.33 | 4.37 | 4.50 | 2.34 | 5.47 | 3.89 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 32.29 |
| RAYMOND 10 N | 27.40 | 0.00 | 0.00 | 0.04 | 2.82 | 4.41 | 4.75 | 4.13 | 2.10 | 4.83 | 4.32 | 0.00 | 0.00 | 0.49 | 0.00 | 0.00 | 27.85 |
| RAYMOND 12 NNE | 28.40E | 0.00 | 0.00 | 0.10 | 2.95 | 4.65 | 4.91 | 4.95 | 1.14 | 5.20 | 4.50E | 0.00E | 0.00E | 0.30E | 0.00E | 0.00E | 28.60E |
| TRIANGLE-DESMOND | 37.28 | 0.00 | 0.03 | 0.03 | 3.89 | 6.82 | 6.59 | 6.07 | 1.25 | 8.98 | 3.62 | T | 0.00 | 0.54 | 0.00 | 0.00 | 37.76 |
| WHITE ROCK-PRESTON | 19.40E | 0.00E | 0.00E | 0.00E | 2.43 | 2.90 | 3.63 | 3.02 | 1.01 | 3.44 | 2.97 | 0.00E | 0.00E | 0.40E | 0.00E | 0.00E | 19.80E |
| SAN JOAQUIN RIVER B7 | | | | | | | | | | | | | | | | | |
| BIG CREEK PH 1 | 36.42 | 0.00 | 0.08 | 0.00 | 3.30 | 7.79 | 5.80 | 5.65 | 1.36 | 8.26 | 4.23 | 0.55 | 0.00 | 0.13 | 0.00 | 0.00 | 36.47 |
| BIG CREEK PH 2 | 31.74 | 0.00 | 0.00 | 0.00 | 2.19 | 5.96 | 5.65 | 5.18 | 1.44 | 6.97 | 4.12 | 0.23 | 0.00 | 0.06 | 0.00 | 0.00 | 31.80 |
| BIG CREEK PH 3 | 29.37 | 0.00 | 0.00 | 0.00 | 2.17 | 5.60 | 5.83 | 4.98 | 0.94 | 6.40 | 3.40 | 0.05 | 0.00 | 0.05 | 0.00 | 0.00 | 29.42 |
| BIG CREEK PH 8 | 29.96 | 0.00 | 0.00 | 0.00 | 2.10 | 5.46 | 5.44 | 5.23 | 1.03 | 6.48 | 4.03 | 0.19 | 0.00 | 0.02 | 0.00 | 0.00 | 29.98 |
| CRANE VALLEY PH | 43.92 | 0.00 | 0.00 | 0.02 | 4.00 | 8.26 | 7.70 | 7.59 | 1.07 | 10.15 | 5.12 | 0.01 | 0.00 | 0.22 | 0.00 | 0.00 | 44.12 |
| FRIANT STILLWELL | 21.93 | 0.00 | 0.00 | 0.00 | 2.50 | 4.53 | 2.38 | 4.61 | 0.70 | 4.36 | 2.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.93 |
| MOUNTAIN REST | 32.84 | 0.00 | 0.02 | 0.00 | 2.66 | 6.82 | 5.25 | 6.14 | 0.79 | 7.64 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.82 |
| SHAVER 1 S | Inc | | | | RB | 9.20 | 6.68 | 10.57 | 0.24 | 9.67E | 4.91 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | Inc |
| SNAVER 3 S | Inc | | | | RB | 8.88 | 5.80 | 8.40 | 1.00 | 8.50 | 4.80 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | Inc |
| SAN JOAQUIN VALLEY - WESTSIDE B8 | | | | | | | | | | | | | | | | | |
| PANOCHE 2 W | 10.88 | 0.00 | 0.00 | 0.00 | 0.68 | 1.87 | 1.98 | 3.06 | 0.15 | 2.55 | 0.59 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 10.98 |

TABLE A-2 (Cont.)

# PRECIPITATION DATA

PRECIPITATION IN INCHES

| STATION NAME | TOTAL JULY 1 TO JUNE 30 | 1973 | | | | | | 1974 | | | | | | | | | TOTAL OCT 1 TO SEPT 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JULY | AUG | SEPT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUNE | JULY | AUG | SEP | |
| TULARE LAKE BASIN | | | | | | | | | | | | | | | | | |
| TULARE LAKE VAL FL CO | | | | | | | | | | | | | | | | | |
| ARVIN | 6.02 | 0.00 | 0.00 | 0.00 | 0.45 | 1.17 | 1.12 | 0.78 | 0.07 | 1.59 | 0.79 | 0.05 | 0.00 | 0.13 | 0.00 | 0.06 | 6.15 |
| AVENAL ORCHARD | 9.16 | 0.00 | 0.00 | 0.00 | 0.45 | 1.14 | 0.78 | 4.55 | 0.00 | 2.20 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.16 |
| BUENA VISTA RCH H&L | 4.36 | 0.00 | 0.00 | 0.00 | 0.12 | 0.38 | 1.16 | 0.81 | T | 1.22 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.36 |
| BUENA VISTA RCH H&L 2 | 3.85 | 0.00 | 0.00 | 0.00 | 0.14 | 0.37 | 0.88 | 0.67 | T | 1.21 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.85 |
| CANTUA RCH | NR | 0.00 | 0.00 | 0.00 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| COALINGA CDF | 7.32 | 0.00 | 0.03 | 0.00 | 0.32 | 0.96 | 0.81 | 3.51 | 0.01 | 1.64 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 7.29 |
| COIT RCH HDQ | 5.31 | 0.00 | 0.00 | 0.00 | 0.54 | 0.77 | 0.78 | 1.70 | 0.16 | 1.24 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.31 |
| CORCORAN EL RICO 1 | 7.77 | 0.00 | 0.00 | 0.00 | 0.88 | 1.12 | 0.43 | 2.97 | 0.14 | 2.12 | 0.11 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 7.89 |
| DELANO GOVT CAMP | 7.54 | 0.00 | 0.16 | 0.00 | 0.68 | 0.73 | 0.91 | 2.20 | 0.33 | 2.03 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.38 |
| DEVILS DEN SLF | 7.45 | 0.00 | 0.00 | 0.00 | 0.57 | 0.64 | 0.55 | 3.79 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.45 |
| DI GIORGIO | 5.87 | 0.00 | 0.00 | 0.00 | 0.23 | 0.95 | 1.25 | 1.07 | 0.02 | 1.50 | 0.85 | 0.00 | 0.00 | T | 0.00 | 0.00 | 5.87 |
| DINUBA ALTA I D | 11.62 | 0.00 | 0.00 | 0.00 | 1.10 | 2.09 | 1.35 | 3.50 | 0.60 | 2.40 | 0.58 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 11.68 |
| FIVE POINTS DIENER | 5.61 | 0.00 | 0.00 | 0.00 | 0.68 | 0.48 | 0.59 | 3.09 | T | 0.76 | 0.01 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 5.67 |
| FOUNTAIN SPRINGS FS | 11.43 | 0.00 | 0.01 | 0.00 | 1.47 | 2.14 | 0.93 | 2.82 | 0.37 | 2.51 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.42 |
| FRESNO CO WESTSIDE F D | 5.96 | 0.00 | 0.02 | 0.00 | 0.37 | 0.30 | 0.64 | 3.24 | 0.01 | 1.36 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.94 |
| FRESNO DWR | 10.26 | 0.00 | 0.00 | 0.00 | 1.01 | 1.18 | 1.73 | 3.07 | 0.22 | 2.74 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.26 |
| GIN YARD | 4.33 | 0.00 | 0.00 | 0.00 | 0.09 | 0.33 | 0.95 | 0.78 | T | 1.39 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.33 |
| HANFORD REFINERY | 7.90 | 0.00 | 0.00 | 0.00 | 0.83 | 0.47 | 1.17 | 3.17 | 0.12 | 1.90 | 0.24 | 0.00 | 0.00 | 0.00 | T | 0.00 | 7.90 |
| HURON RANCH | 6.40 | 0.00 | 0.00 | 0.00 | 0.49 | 0.52 | 0.92 | 3.24 | 0.07 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.40 |
| IVANHOE I D | 11.34 | 0.00 | 0.00 | 0.00 | 0.94 | 1.98 | 1.82 | 2.78 | 0.43 | 2.73 | 0.66 | 0.00 | 0.00 | T | 0.00 | 0.00 | 11.34 |
| KETTLEMAN HILLS | 6.85 | 0.00 | 0.00 | 0.00 | 0.49 | 0.48 | 0.59 | 4.06 | 0.03 | 1.17 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 6.85 |
| KINGSBURG 2 S | 9.28 | 0.00 | 0.00 | 0.00 | 0.73 | 0.94 | 1.75 | 3.14 | 0.00 | 2.44 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.28 |
| LOST HILLS DWR | 6.03 | 0.00 | 0.00 | 0.00 | 0.25 | 0.38 | 0.50 | 2.52 | 0.12 | 1.80 | 0.44 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 6.03 |
| MAGUNDEN | 4.99 | 0.00 | 0.00 | 0.00 | 0.15 | 0.62 | 1.00 | 0.90 | 0.12 | 1.54 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.99 |
| MENDOTA MURIETTA RCH | 5.93 | 0.00 | T | 0.00 | 0.60 | 0.60 | 0.86 | 1.76 | 0.20 | 1.61 | 0.30 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 5.95 |
| NORTH BELRIDGE | 5.35 | 0.00 | 0.00 | 0.00 | 0.35 | 0.75 | 0.20 | 2.41 | 0.05 | 1.40 | 0.10 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 5.35 |
| OILFIELD FS | 6.33 | 0.00 | 0.16 | 0.00 | 0.47 | 0.96 | 0.37 | 3.14 | 0.04 | 1.14 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.17 |
| PORTERVILLE 3 W | 10.49 | 0.00 | 0.00 | 0.00 | 1.03 | 1.58 | 1.50 | 3.08 | 0.29 | 2.17 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.49 |
| RECTOR | 10.82 | 0.00 | 0.00 | 0.00 | 1.01 | 1.36 | 1.60 | 2.99 | 0.43 | 2.61 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.82 |
| REEDLEY MVFD | 13.91 | 0.00 | 0.00 | 0.00 | 1.22 | 1.66 | 2.16 | 4.07 | 0.71 | 3.40 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.91 |
| RIVERDALE | 8.19 | 0.00 | 0.00 | 0.00 | 0.74 | 1.08 | 0.39 | 3.49 | 0.16 | 2.17 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.19 |
| SANGER 1 NE | 12.90 | 0.00 | 0.00 | 0.00 | 1.16 | 1.96 | 2.21 | 3.60 | 0.36 | 2.97 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.90 |
| SANGER R S | 11.14 | 0.00 | 0.00 | 0.00 | 0.09 | 1.44 | 2.33 | 3.53 | 0.42 | 2.23 | 1.10 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 11.18 |
| SAN JOAQUIN | 5.94 | 0.00 | 0.00 | 0.00 | 0.58 | 0.40 | 0.61 | 2.20 | 0.06 | 1.60 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.94 |
| SOUTH BELRIDGE | 5.40 | 0.00 | 0.00 | 0.00 | 0.27 | 0.74 | 0.12 | 2.14 | 0.31 | 1.52 | 0.22 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 5.40 |
| SOUTH LAKE FARMS HDQ | 6.35 | 0.00 | 0.00 | 0.00 | 0.92 | 0.61 | 0.29 | 2.35 | 0.15 | 1.90 | 0.13 | T | 0.00 | T | 0.00 | 0.00 | 6.35 |
| TRANQUILLITY GLOTZ | 6.17 | 0.00 | T | 0.00 | 0.62 | 0.43 | 0.90 | 2.15 | 0.14 | 1.71 | 0.22 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 6.20 |
| TULARE | 8.48 | 0.00 | 0.00 | 0.00 | 0.72 | 0.66 | 1.19 | 3.23 | 0.27 | 1.99 | 0.42 | D.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.48 |
| U S COTTONFIELD STA | 5.53 | 0.00 | 0.00 | 0.00 | 0.26 | 0.69 | 0.81 | 1.49 | 0.08 | 1.72 | 0.48 | T | 0.00 | 0.02 | 0.00 | 0.00 | 5.55 |
| VESTAL | 8.88 | 0.00 | 0.00 | 0.00 | 0.95 | 1.12 | 1.08 | 2.43 | 0.26 | 2.58 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.88 |
| WILBUR DITCH | 6.87 | 0.00 | 0.00 | 0.00 | 0.82 | 0.43 | 0.60 | 2.66 | 0.13 | 1.91 | 0.32 | T | 0.00 | 0.00 | 0.00 | 0.00 | 6.87 |
| WIND GAP | Inc | | | | | | RB | 1.97 | 0.09 | 1.65 | 0.74 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | Inc |
| KINGS RIVER C1 | | | | | | | | | | | | | | | | | |
| BENNER RANCH | | 0.00 | 0.10 | 0.00 | RE | | | | | | | | | | | | |
| BLASINGAME | 22.35 | 0.00 | 0.00 | 0.00 | 2.40 | 3.49 | 2.82 | 4.88 | 0.74 | 4.59 | 3.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.35 |
| PINEHURST R S | 32.92 | 0.00 | 0.00 | 0.00 | 2.54 | 6.25 | 4.67 | 7.28 | 1.29 | 5.63 | 4.84 | 0.38 | 0.00 | 0.04 | 0.00 | 0.00 | 32.92 |
| SQUAW VALLEY-FRESNO | 24.68 | 0.00 | 0.00 | 0.00E | 1.09 | 3.73 | 4.10 | 6.15 | 0.85 | 4.85 | 3.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 24.68 |
| TRIMMER R S | 30.24 | 0.00 | 0.00 | 0.37 | 2.43 | 5.15 | 5.11 | 6.06 | 0.87 | 6.04 | 4.21 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 29.91 |
| WISHON LAKE | 50.78 | 0.00 | 0.14 | 0.00 | 3.57 | 9.04 | 8.38 | 10.57 | 0.74 | 13.39 | 4.06 | 0.89 | 0.00 | 0.39 | 0.63 | 0.00 | 51.66 |
| KAWEAH RIVER C2 | | | | | | | | | | | | | | | | | |
| KAWEAH PH 3 | 26.44 | 0.00 | 0.00 | 0.00 | 2.06 | 4.36 | 4.39 | 6.33 | 1.19 | 4.73 | 3.11 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 26.44 |
| MIRAMONTE H C | 28.76 | T | 0.00 | 0.00 | 2.22 | 4.83 | 3.97 | 7.04 | 1.21 | 5.97 | 3.52 | T | 0.00 | T | 0.00 | 0.00 | 28.76 |
| TERMINUS DAM | 15.48 | 0.00 | T | 0.00 | 1.42 | 2.66 | 2.21 | 3.76 | 0.89 | 2.62 | 1.90 | 0.02 | 0.00 | T | 0.00 | 0.00 | 15.48 |
| WHITAKER FOREST | Inc | 0.00 | 0.01 | 0.00 | 3.18 | 8.23 | NR | NR | NR | NR | NR | NR | 0.00 | 0.22 | 0.00 | 0.00 | Inc. |
| TULE RIVER C3 | | | | | | | | | | | | | | | | | |
| SUCCESS DAM | 12.63 | 0.00 | T | 0.00 | 1.27 | 2.01 | 1.83 | 3.25 | 0.25 | 2.51 | 1.49 | 0.02 | 0.00 | 0.03 | 0.02 | 0.00 | 12.68 |
| TULE RIVER INTAKE | 30.10 | 0.00 | 0.00 | 0.00 | 2.15 | 4.92 | 5.80 | 6.04 | 1.26 | 5.57 | 4.16 | 0.20 | 0.00 | 0.08 | 0.00 | 0.00 | 30.18 |
| TULE RIVER PH | 21.17 | 0.00 | 0.02 | 0.00 | 1.51 | 3.24 | 3.49 | 5.08 | 0.72 | 3.61 | 3.42 | 0.08 | 0.00 | 0.01 | 0.00 | 0.00 | 21.16 |
| GREENHORN MOUNTAIN C4 | | | | | | | | | | | | | | | | | |
| WOODY | 12.64 | 0.00 | 0.00 | 0.00 | 0.85 | 2.05 | 2.65 | 1.97 | 0.31 | 3.45 | 1.27 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 12.64 |
| KERN RIVER C5 | | | | | | | | | | | | | | | | | |
| ISABELLA DAM | 9.80 | 0.00 | 0.00 | 0.00 | 0.11 | 1.26 | 1.25 | 2.75 | 0.09 | 2.00 | 1.95 | 0.39 | 0.00 | 0.78 | 0.00 | 0.00 | 10.58 |
| KERN CANYON | 8.34 | 0.00 | 0.00 | 0.00 | 0.26 | 1.27 | 2.20 | 1.35 | 0.24 | 1.82 | 1.13 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 8.34 |
| KERN R 3 INTAKE SCE | 16.25 | 0.00 | 0.06 | 0.00 | 0.26 | 2.21 | 3.00 | 4.03 | 0.42 | 4.33 | 1.76 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 16.19 |
| ONYX | 6.74 | 0.00 | 0.00 | 0.00 | 0.37 | 0.78 | 0.32 | 2.32 | 0.09 | 1.78 | 1.08 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 6.87 |
| TEHACHAPI MOUNTAINS C6 | | | | | | | | | | | | | | | | | |
| KEENE | 15.97 | 0.00 | 0.00 | 0.00 | 0.37 | 2.99 | 3.03 | 2.95 | 0.41 | 2.66 | 3.10 | 0.46 | 0.00 | 0.15 | 0.00 | 0.00 | 16.12 |
| HIL POTRERO | 10.93 | 0.00 | 0.00 | 0.00 | 0.20 | 1.38 | 1.85 | 3.43 | 0.31 | 2.26 | 1.38 | 0.10 | 0.00 | 0.43 | 0.10 | T | 11.46 |
| WALKER BASIN | 17.46 | 0.00 | 0.00 | 0.00 | 0.63 | 2.81 | 2.26 | 3.44 | 0.29 | 2.90 | 4.84 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 17.46 |
| TULARE L BA WESTSIDE C7 | | | | | | | | | | | | | | | | | |
| ANNETTE | 12.64 | 0.00E | 0.00E | 0.00E | 0.36 | 2.81 | 1.21 | 5.31 | 0.00 | 2.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.64 |
| AVENAL 8 SW | 12.78 | 0.00 | 0.00 | 0.00 | 0.00 | 2.04 | 1.38 | 5.73 | 0.00 | 3.59 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.78 |
| AVENAL 6 SSW | 12.14 | 0.00 | 0.00 | 0.00 | 0.64 | 1.90 | 1.11 | 5.10 | 0.00 | 3.28 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.14 |
| CHICO RANCHO | 13.76 | 0.00 | T | 0.00 | 0.74 | 1.94 | 1.81 | 5.10 | 0.12 | 3.72 | 0.24 | 0.09 | 0.00 | T | 0.00 | 0.00 | 13.76 |
| CHOLAME TWISSELMAN | 15.09 | 0.00 | 0.05 | 0.00 | 0.54 | 2.00 | 1.98 | 5.54 | 0.33 | 3.45 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.04 |
| COALINGA ROBERTS RCH | 13.62 | 0.00 | 0.00 | 0.00 | 0.85 | 1.16 | 2.10 | 5.58 | 0.00 | 3.22 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.62 |
| FELLOWS | 5.54 | 0.00 | 0.01 | 0.00 | 0.17 | 0.79 | 0.49 | 2.08 | 0.04 | 1.67 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.43 |
| MARICOPA FS | 4.98 | 0.00 | 0.00 | 0.00 | 0.10 | 0.50 | 0.28 | 2.21 | 0.04 | 1.46 | 0.39 | 0.00 | 0.00 | T | 0.00 | 0.00 | 4.98 |
| MCKITTRICK FS | 5.28 | 0.00 | 0.00 | 0.00 | 0.23 | 0.97 | 0.04 | 1.94 | T | 2.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.28 |
| TAFT MTKR | 3.85 | 0.00 | 0.00 | 0.00 | 0.05 | 0.54 | 0.23 | 1.58 | 0.00 | 1.26 | 0.19 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 3.91 |

# TABLE A-3

## STORAGE GAGE PRECIPITATION DATA

### SAN JOAQUIN VALLEY

| Station | Agency | 1973-74 Season | | |
|---|---|---|---|---|
| | | Measurement Period | | Precipitation In Inches |
| SAN JOAQUIN RIVER BASIN | | | | |
| STANISLAUS RIVER B3 | | | | |
| HIGHLAND LAKES | DEPT OF WATER RESOURCES | 6-29-73 | 7-10-74 | 44.50 |
| LAKE ALPINE | DEPT OF WATER RESOURCES | 6-29-73 | 7-10-74 | 79.4 |
| TUOLUMNE RIVER B4 | | | | |
| TIOGA PASS | DEPT OF WATER RESOURCES | 6-28-73 | 7- 9-74 | 42.74 |
| TUOLUMNE MEADOW | DEPT OF WATER RESOURCES | 6-28-73 | 7- 9-74 | 42.85 |
| MERCED RIVER B5 | | | | |
| OSTRANDER LAKE | YOSEMITE NATL PARK SERVICE | Fall 73 | 7-25-74 | *40.2 |
| SNOW FLATS | DEPT OF WATER RESOURCES | 6-28-73 | 7- 9-74 | 63.65 |
| TENAYA LAKE | DEPT OF WATER RESOURCES | 6-28-73 | 7- 9-74 | 45.34 |
| SAN JOAQUIN RIVER B7 | | | | |
| CHIQUITO CREEK | DEPT OF WATER RESOURCES | 6-27-73 | 7- 8-74 | 40.2 |
| CLOVER MEADOW | DEPT OF WATER RESOURCES | 6-27-73 | 7- 8-74 | 52.10 |
| KAISER MEADOW | SO CALIF EDISON COMPANY | 9-11-73 | 9-24-74 | 49.04 |
| MAMMOTH POOL | SO CALIF EDISON COMPANY | 9- 7-73 | 9-23-74 | 39.40 |
| ROSE MARIE MEADOW | SO CALIF EDISON COMPANY | 9-11-73 | 9-17-74 | 46.05 |
| VERMILLION VALLEY | SO CALIF EDISON COMPANY | 9-12-73 | 9-11-74 | 32.69 |
| TULARE LAKE BASIN | | | | |
| KINGS RIVER C1 | | | | |
| BARTON FLAT | U S CORPS OF ENGINEERS | Not serviced | | |
| DUSY BENCH | DEPT OF WATER RESOURCES | 9-11-73 | 8-27-74 | 34.75 |
| RATTLESNAKE CREEK | U S CORPS OF ENGINEERS | 9-14-73 | 9-10-74 | 52.75 |
| STATE LAKES | U S CORPS OF ENGINEERS | 9-14-73 | 9-26-74 | 25.95 |
| SUMMIT MEADOW | DEPT OF WATER RESOURCES | 7-27-73 | 7-19-74 | 56.76 |
| VIDETTE MEADOW | U S CORPS OF ENGINEERS | 9-12-73 | 9-10-74 | 40.60 |
| KAWEAH RIVER C2 | | | | |
| ATWELL | U S CORPS OF ENGINEERS | 10- 9-73 | 10- 7-74 | 39.80 |
| BEARTRAP MEADOW | U S CORPS OF ENGINEERS | 9-10-73 | 9-10-74 | 51.45 |
| GIANT FOREST | U S CORPS OF ENGINEERS | 10-10-73 | 10- 8-74 | 43.15 |
| HOCKETT MEADOW | U S CORPS OF ENGINEERS | 10-10-73 | 10- 9-74 | 38.85 |
| TULE RIVER C3 | | | | |
| EAGLE CREEK | U S CORPS OF ENGINEERS | 9-23-73 | 9-24-74 | 38.25 |
| HOSSACK (RADIO) | U S CORPS OF ENGINEERS | 9-27-73 | 9-25-74 | 43.80 |
| MOUNTAIN HOME 2 | U S CORPS OF ENGINEERS | 9-24-73 | 9-26-74 | 38.70 |
| ROGERS CAMP | U S CORPS OF ENGINEERS | 9-27-73 | 9-26-74 | 35.45 |
| KERN RIVER C5 | | | | |
| CHAGOOPA | U S CORPS OF ENGINEERS | 9-25-73 | 10- 9-74 | 33.05 |
| CRABTREE MEADOW | DEPT OF WATER RESOURCES | 9-20-73 | 9-12-74 | 26.93 |
| PASCOES | U S CORPS OF ENGINEERS | 9-26-73 | 9-24-74 | 38.75 |
| PORTUGUESE MEADOW | U S CORPS OF ENGINEERS | 9-26-73 | 9-24-74 | 53.25 |
| TUNNEL R S | DEPT OF WATER RESOURCES | 9-14-73 | 9-17-74 | 24.43 |
| WET MEADOW | U S CORPS OF ENGINEERS | 9-25-73 | 9-25-74 | 42.30 |
| TULARE LAKE BASIN ON WESTSIDE C7 | | | | |
| OILFIELDS JOAQUIN RDG | DEPT OF WATER RESOURCES | 8-30-73 | 10-11-74 | 11.0 |

* No oil added in 1973 - possible evaporation

# APPENDIX B

# SURFACE WATER MEASUREMENTS

## INTRODUCTION

This appendix presents surface water data for the 1974 water year, which is from October 1, 1973 to September 30, 1974. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, and corrections and revisions to previously published reports. *

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

| HYDROGRAPHIC AREA B | HYDROGRAPHIC AREA C |
|---|---|
| SAN JOAQUIN RIVER BASIN | TULARE LAKE DRAINAGE BASIN |
| B0 - San Joaquin Valley Floor | C0 - Tulare Lake Valley Floor |
| B3 - Stanislaus River | C1 - Kings River |
| B4 - Tuolumne River | C2 - Kaweah River |
| B5 - Merced River | C3 - Tule River |
| B6 - Fresno-Chowchilla Rivers | C4 - Greenhorn Mountains |
| B7 - San Joaquin River | C5 - Kern River |
| B8 - San Joaquin Valley on West Side | C6 - Tehachapi Mountains |
| | C7 - Tulare Lake Basin on West Side |

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract, or through cooperative arrangements with other local or government agencies. The data published in the following reports together with this report present a comprehensive analysis of the water resources for the area:

1. Water Resources Data for California
   Part 1, Surface Water Records
   Volume 2: Northern Great Basin and Central Valley
   United States Department of the Interior
   Geological Survey
   Prepared in cooperation with the California Department of Water Resources and with other agencies.

2. Kings River Watermaster Report
   Kings River Water Association

3. Water Supply
   Fresno Field Division, U. S. Bureau of Reclamation

4. Bulletin 120, Summary of Water Conditions in California,
   Department of Water Resources

5. Bulletin 157, Index of Stream Gaging Stations In and Adjacent to California, 1970
   Department of Water Resources
   This index contains the period of record--with number of years missing--and more information for 800± stations in the San Joaquin Valley area. The index also identifies the agency from which a particular record may be obtained.

---

*Figure B-1 shows station locations

ALPHABETICAL INDEX TO TABLES

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT


| | Page | |
|---|---|---|
| | Daily Mean Discharge | Daily Mean Gage Hei |
| Bean Creek near Coulterville | 60 | |
| Bear Creek below Bear Reservoir | 53 | |
| at McKee Road near Merced | 54 | |
| at Merced Irrigation District West Boundary | 55 | |
| Buena Vista Creek near Taft | 91 | |
| Burns Creek below Burns Reservoir | 56 | |
| Campbell-Moreland Ditch above Porterville | 82 | |
| Chowchilla River, West Fork near Mariposa | 48 | |
| Cross Creek below Lakeland Canal #2 | 78 | |
| Delta-Mendota Canal near Tracy | 40 | |
| to Mendota Pool | 41 | |
| Dry Creek near Modesto | 69 | 109 |
| Eastside Bypass near El Nido | 49 | |
| Fresno River Eight Miles West of Madera | 47 | |
| Lewis Fork near Oakhurst | 44 | |
| Friant-Kern Canal Delivery to Porter Slough | 79 | |
| to Tule River | 80 | |
| Hubbs-Miner Ditch at Porterville | 87 | |
| James Bypass near San Joaquin | 39 | |
| Kern River at Second Point | 90 | |
| near Bakersfield | 89 | |
| Kings River, South Fork, below Empire Weir #2 | 77 | |
| Mariposa Creek near Catheys Valley | 50 | |
| below Mariposa Reservoir | 51 | |
| Maxwell Creek at Coulterville | 61 | |
| Merced River at Cressey | 64 | 105 |
| below Snelling | 63 | 104 |
| Miami Creek at Highway 49 near Ahwahnee | 46 | |
| near Oakhurst | 45 | |
| Musick Creek #1 near Shaver Lake | 76 | |
| Musick Creek #2 near Shaver Lake | 75 | |
| Mustang Creek near Ballico | 65 | |
| Orestimba Creek below Highway 33 | 66 | |
| Owens Creek below Owens Reservoir | 52 | |
| Panoche Drain near Dos Palos | 58 | |
| Poplar Ditch near Porterville | 86 | |
| Porter Slough at Porterville | 83 | |
| Porter Slough Ditch at Porterville | 84 | |
| Salt Slough near Stevinson | 59 | |
| San Joaquin River near Dos Palos | 43 | |
| at Fremont Ford Bridge | 62 | 103 |
| below Friant | 38 | 101 |
| at Maze Road Bridge | 71 | 112 |
| near Mendota | 42 | |
| near Newman | | 106 |
| at Patterson Bridge | 67 | 107 |
| near Stevinson | 57 | 102 |
| near Vernalis | 74 | 116 |
| Stanislaus River at Koetitz Ranch | 73 | 115 |
| at Orange Blossom Bridge | 72 | 113 |
| at Ripon | | 114 |
| Tulare Lake | | 100 |
| Tule River below Porterville | 81 | |
| Tuolumne River at Hickman Bridge | 68 | 108 |
| at Modesto | | 110 |
| at Tuolumne City | 70 | 111 |
| Vandalia Ditch near Porterville | 85 | |
| Woods-Central Ditch near Porterville | 88 | |

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HYDROGRAPHIC AREA AND STREAM BASIN INDEX TO SURFACE WATER MEASUREMENT STATIONS


| Station Number | | Page: Daily Mean Discharge | Page: Daily Mean Gage Height |
|---|---|---|---|
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| | SAN JOAQUIN VALLEY FLOOR | | |
| B00435 | Eastside Bypass near El Nido | 49 | |
| 0470 | Salt Slough near Stevinson | 59 | |
| 0525 | Mustang Creek near Ballico | 65 | |
| 0770 | Delta-Mendota Canal to Mendota Pool | 41 | |
| 0975 | Panoche Drain near Dos Palos | 58 | |
| 3115 | Stanislaus River at Koetitz Ranch | 73 | 115 |
| 3125 | at Ripon | | 114 |
| 3175 | at Orange Blossom Bridge | 72 | 113 |
| 4105 | Tuolumne River at Tuolumne City | 70 | 111 |
| 4120 | at Modesto | | 110 |
| 4130 | Dry Creek near Modesto | 69 | 109 |
| 4150 | Tuolumne River at Hickman Bridge | 68 | 108 |
| 5155 | Merced River at Cressey | 64 | 105 |
| 5170 | below Snelling | 63 | 104 |
| 5518 | Bear Creek at Merced Irrigation District West Boundary | 55 | |
| 5525 | at McKee Road near Merced | 54 | |
| 5570 | below Bear Reservoir | 53 | |
| 6170 | Owens Creek below Owens Reservoir | 52 | |
| 6725 | Fresno River Eight Miles West of Madera | 47 | |
| 7020 | San Joaquin River near Vernalis | 74 | 116 |
| 7040 | at Maze Road Bridge | 71 | 112 |
| 7200 | at Patterson Bridge | 67 | 107 |
| 7300 | near Newman | | 106 |
| 7375 | at Fremont Ford Bridge | 62 | 103 |
| 7400 | near Stevinson | 57 | 102 |
| 7610 | near Dos Palos | 43 | |
| 7710 | near Mendota | 42 | |
| 7885 | below Friant | 38 | 101 |
| 8735 | Orestimba Creek below Highway 33 | 66 | |
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| B51250 | Maxwell Creek at Coulterville | 61 | |
| 2580 | Bean Creek near Coulterville | 60 | |
| 6100 | Burns Creek below Burns Reservoir | 56 | |
| | FRESNO - CHOWCHILLA RIVERS | | |
| B62100 | Mariposa Creek below Mariposa Reservoir | 51 | |
| 2400 | near Catheys Valley | 50 | |
| 4300 | Chowchilla River, West Fork near Mariposa | 48 | |
| 7285 | Miami Creek at Highway 49 near Ahwahnee | 46 | |
| 7300 | near Oakhurst | 45 | |
| 7325 | Fresno River, Lewis Fork near Oakhurst | 44 | |
| | SAN JOAQUIN RIVER | | |
| B71406 | Musick Creek #1 near Shaver Lake | | |
| 1408 | Musick Creek #2 near Shaver Lake | 75 | |
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| B95925 | Delta-Mendota Canal near Tracy | 40 | |
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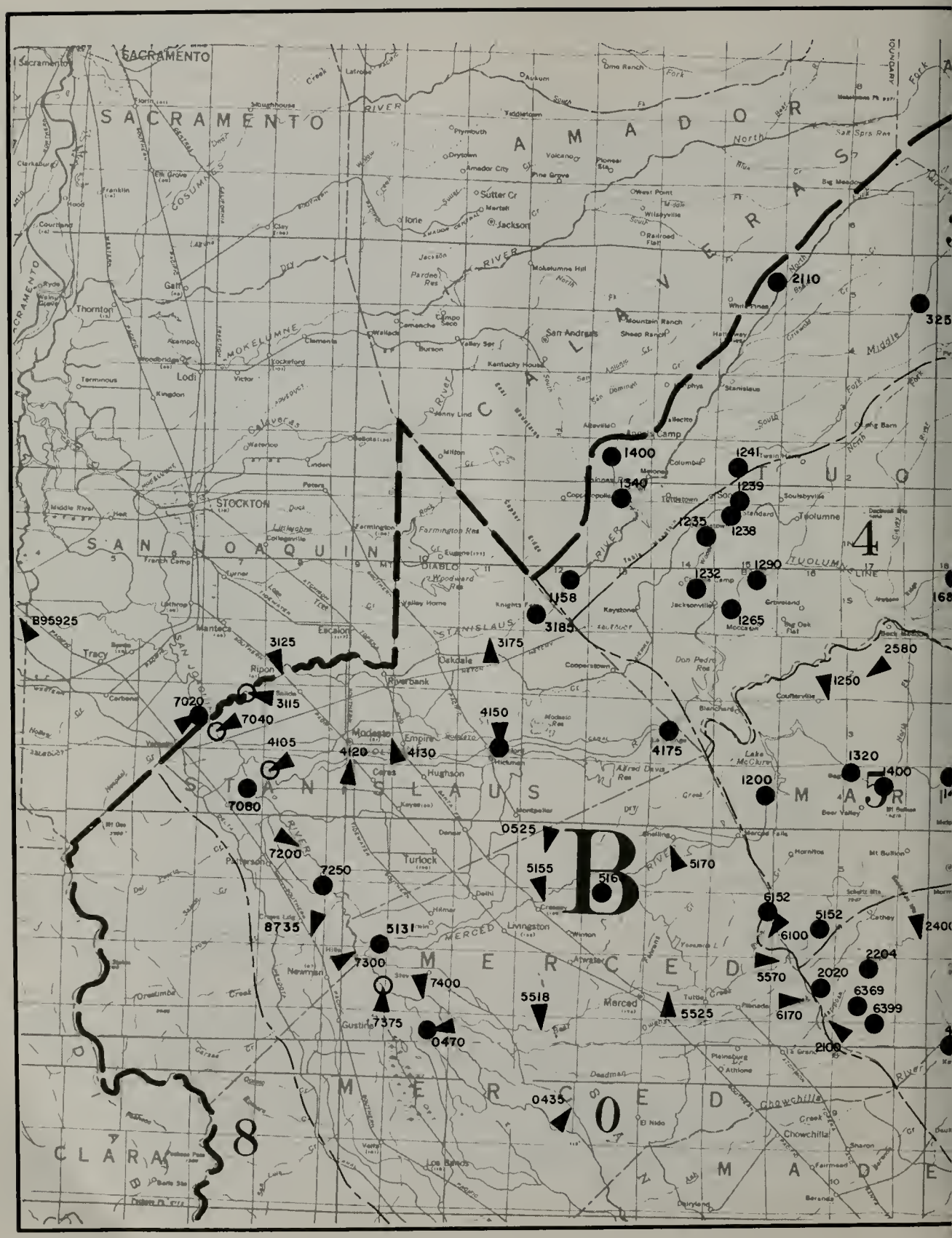
| | TULARE LAKE VALLEY FLOOR | | |
| C00200 | James Bypass near San Joaquin | 39 | |
| 1120 | Kings River, South Fork, below Empire Weir #2 | 77 | |
| 2602 | Cross Creek below Lakeland Canal #2 | 78 | |
| 3110 | Tulare Lake | | 100 |
| 3169 | Tule River below Porterville | 81 | |
| 3182 | Porter Slough at Porterville | 83 | |
| 3913 | Friant-Kern Canal Delivery to Porter Slough | 79 | |
| 3923 | to Tule River | 80 | |
| 3925 | Hubbs-Miner Ditch at Porterville | 87 | |
| 3948 | Woods-Central Ditch near Porterville | 88 | |
| 3960 | Poplar Ditch near Porterville | 86 | |
| 3965 | Vandalia Ditch near Porterville | 85 | |
| 3970 | Campbell-Moreland Ditch above Porterville | 82 | |
| 3984 | Porter Slough Ditch at Porterville | 84 | |
| 5150 | Kern River near Bakersfield | 89 | |
| 5180 | at Second Point | 90 | |
| 7120 | Buena Vista Creek near Taft | 91 | |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Ripon
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Sutter Cr
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Manteca
Escalon
Oakdale
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Los Banos
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Empire
Ceres
Knights Ferry
Farmington
Valley Home
Mokelumne Hill
Jamestown
Columbia
Copperopolis
Milton
Angels Camp
Stanislaus
Tuolumne
Soulsbyville
Standard
Jacksonville
Groveland
Moccasin
Keystone
Cooperstown
Coulterville
Don Pedro Res
Lake McClure
Hornitos
Mt Bullion
Dead Man
Athlone
Dairyland
Berenda
Sharon
Fairmead
Chowchilla
Dos Palos
Santa Nella
Gustine
Delhi
Hilmar
Atwater
Merced
Planada
Plainsburg
El Nido
Dos Palos
Los Banos
Dos Palos
Santa Nella
Merced
Chowchilla
Madera
Bear Valley
Mt Bullion
Hornitos
Coulterville
Groveland
Jacksonville
Moccasin
Keystone
Cooperstown
Don Pedro Res
Lake McClure
Mt Bullion
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Merced Falls
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Tuttle Creek
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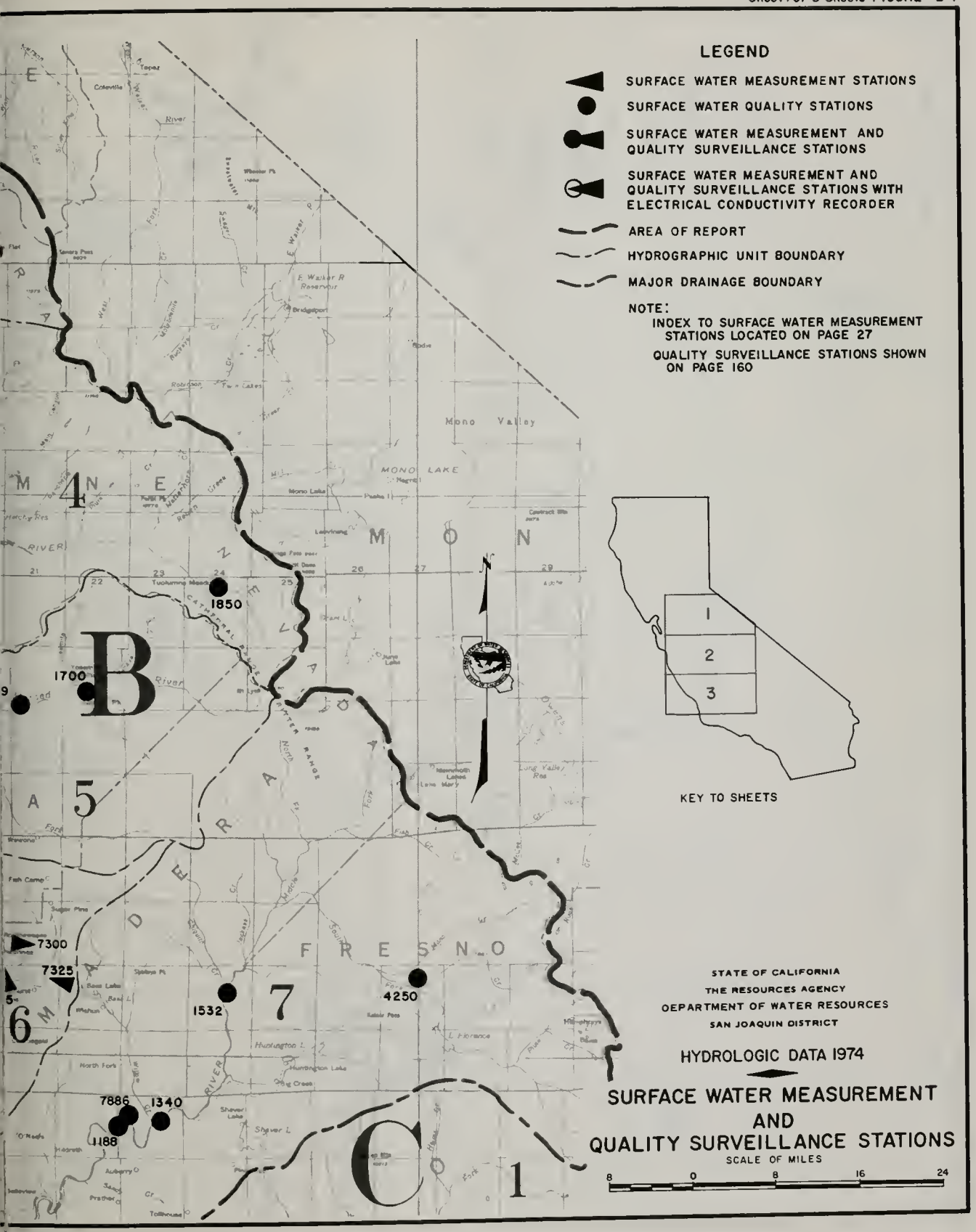
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SURFACE WATER MEASUREMENT STATIONS
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SURFACE WATER MEASUREMENT AND QUALITY SURVEILLANCE STATIONS
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MAJOR DRAINAGE BOUNDARY
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THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1974
SURFACE WATER MEASUREMENT AND QUALITY SURVEILLANCE STATIONS
SCALE OF MILES
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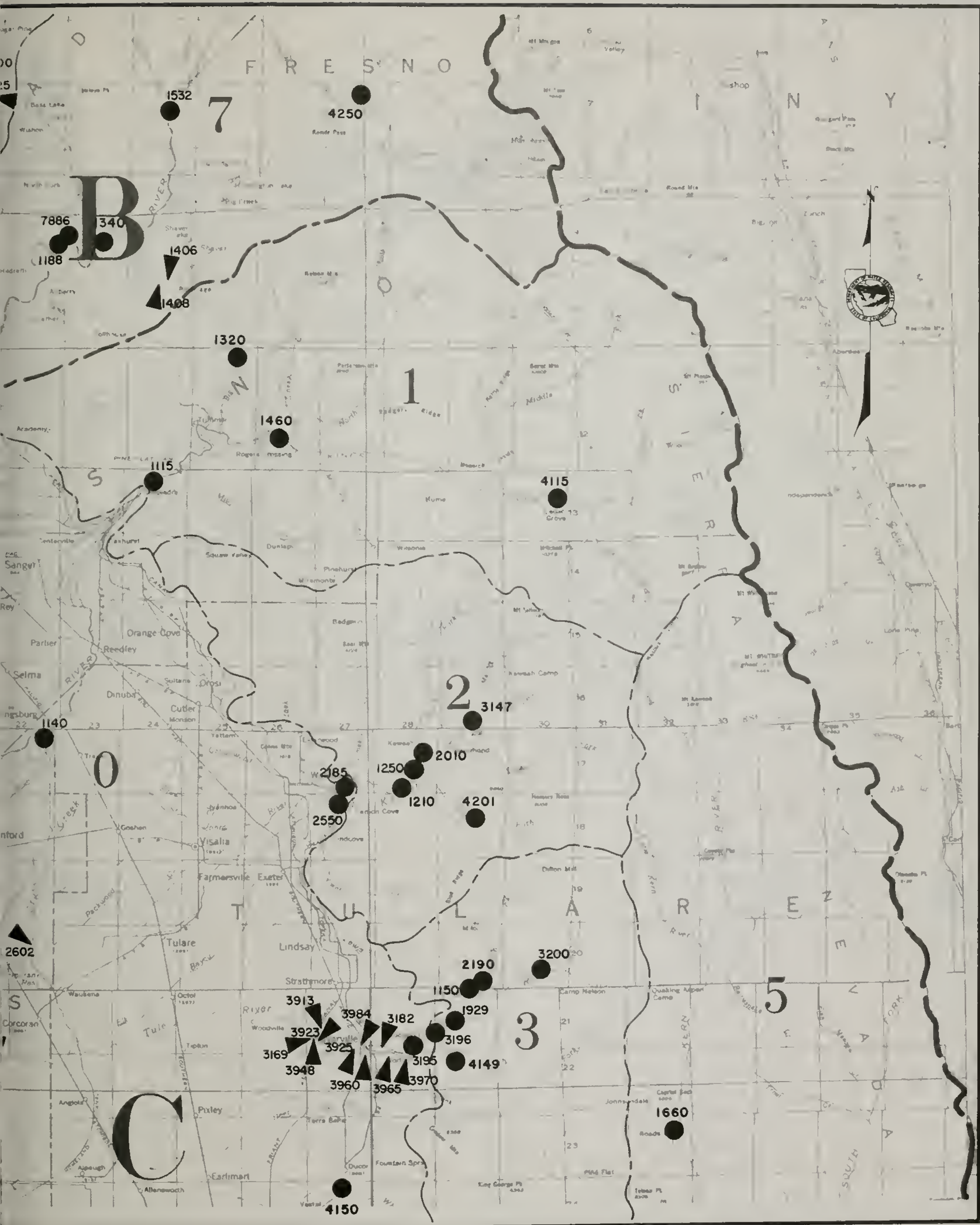
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Ducor
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Squaw Valley
Dunlap
Badger
Camp Nelson
Johnsondale
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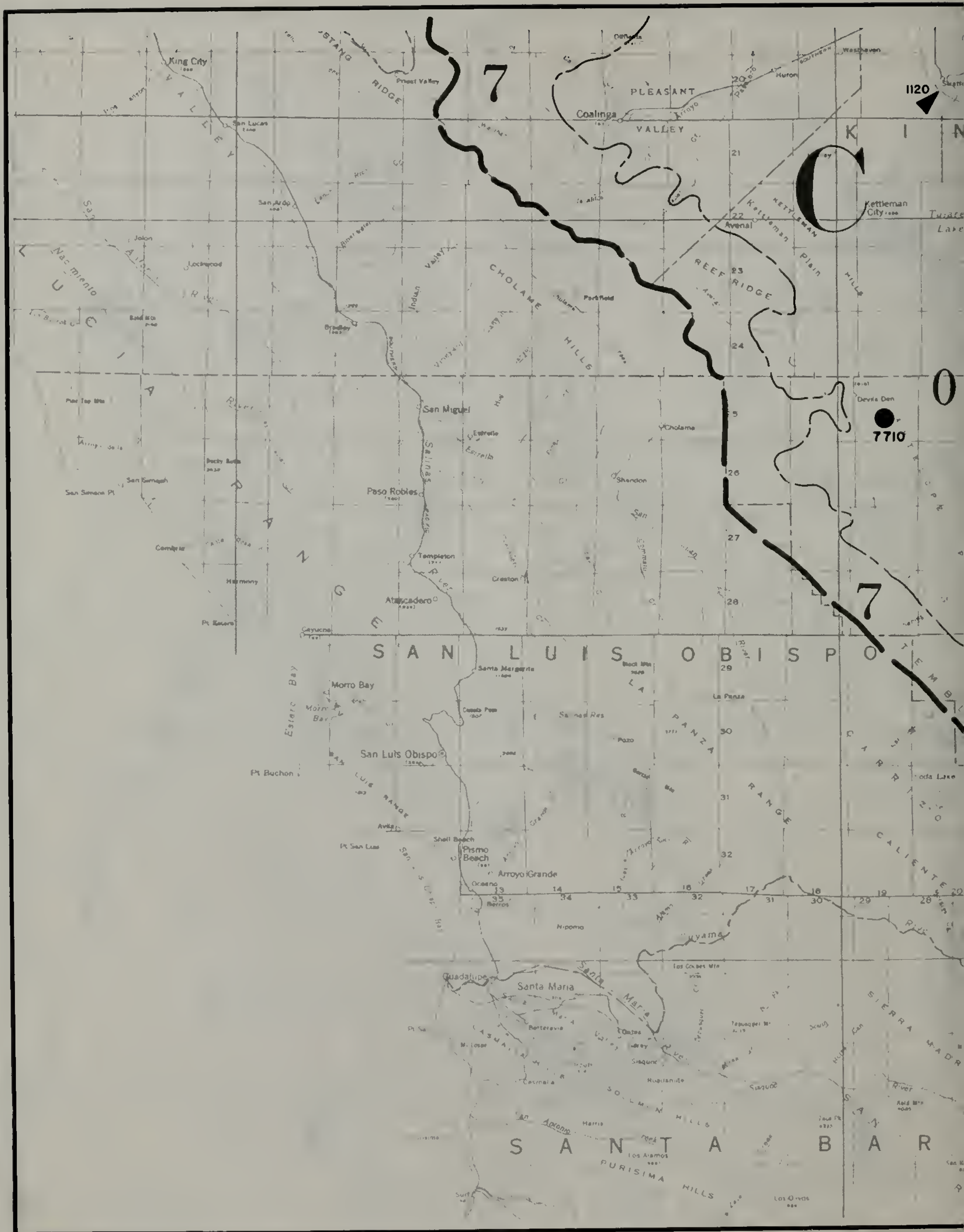
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Atascadero
Creston
Cholame
Shandon
Devils Den
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Morro Bay
San Luis Obispo
Pt Buchon
Pismo Beach
Arroyo Grande
Nipomo
Santa Maria
Guadalupe
La Panza
Cambria
San Simeon Pt
SANTA BAR

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Lindsay
Strathmore
Porterville
Pixley
Earlimart
Delano
McFarland
Wasco
Shafter
Oildale
Bakersfield
Lamont
DiGiorgio
Weed Patch
Arvin
Taft
Ford City
Tehachapi
Mojave
Lancaster
ANTELOPE VALLEY
GREENHORN
Buena Vista Lake
ELK HILLS

## UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs 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. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

Table B-1 presents annual unimpaired runoff in percent of average for major streams.

Table B-2 presents monthly unimpaired runoff in percent of average for major streams.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1920 through September 1970.

# TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

In percent of average

| Water Year | Stanislaus River Inflow to Melones | Tuolumne River Inflow to Don Pedro | Merced River Inflow to Exchequer | San Joaquin River Inflow to Millerton | San Joaquin River near Vernalis (b) | Kings River Inflow to Pine Flat | Kaweah River Inflow to Terminus | Tule River Inflow to Success | Kern River Inflow to Isabella |
|---|---|---|---|---|---|---|---|---|---|
| Average Annual Runoff (a) | 1085 | 1789 | 920 | 1659 | 5452 | 1568 | 404 | 133 | 629 |
| 1930-31 | 29 | 34 | 29 | 29 | 30 | 30 | 28 | 19 | 29 |
| 1931-32 | 125 | 118 | 121 | 123 | 121 | 133 | 129 | 104 | 111 |
| 1932-33 | 56 | 63 | 56 | 67 | 62 | 75 | 70 | 60 | 68 |
| 1933-34 | 39 | 45 | 39 | 42 | 42 | 42 | 32 | 15 | 37 |
| 1934-35 | 112 | 118 | 127 | 116 | 118 | 103 | 89 | 67 | 72 |
| 1935-36 | 122 | 121 | 125 | 112 | 119 | 120 | 121 | 128 | 119 |
| 1936-37 | 102 | 112 | 132 | 133 | 120 | 149 | 168 | 230 | 176 |
| 1937-38 | 188 | 192 | 226 | 222 | 206 | 209 | 216 | 267 | 205 |
| 1938-39 | 48 | 55 | 52 | 56 | 53 | 62 | 61 | 62 | 72 |
| 1939-40 | 129 | 124 | 119 | 113 | 121 | 114 | 127 | 158 | 111 |
| 1940-41 | 123 | 140 | 158 | 160 | 146 | 162 | 159 | 177 | 198 |
| 1941-42 | 137 | 133 | 140 | 136 | 136 | 128 | 122 | 102 | 119 |
| 1942-43 | 144 | 133 | 140 | 124 | 134 | 129 | 166 | 274 | 159 |
| 1943-44 | 62 | 73 | 74 | 76 | 72 | 75 | 78 | 77 | 92 |
| 1944-45 | 118 | 117 | 119 | 129 | 121 | 132 | 136 | 153 | 128 |
| 1945-46 | 109 | 105 | 102 | 104 | 105 | 103 | 88 | 71 | 103 |
| 1946-47 | 58 | 62 | 61 | 68 | 63 | 71 | 66 | 39 | 68 |
| 1947-48 | 83 | 79 | 75 | 73 | 77 | 64 | 65 | 48 | 53 |
| 1948-49 | 69 | 70 | 69 | 70 | 70 | 61 | 54 | 37 | 47 |
| 1949-50 | 99 | 87 | 78 | 79 | 85 | 82 | 75 | 47 | 69 |
| 1950-51 | 156 | 139 | 133 | 112 | 133 | 102 | 104 | 116 | 84 |
| 1951-52 | 177 | 167 | 170 | 171 | 171 | 182 | 204 | 241 | 221 |
| 1952-53 | 89 | 86 | 68 | 74 | 80 | 74 | 76 | 74 | 86 |
| 1953-54 | 82 | 81 | 73 | 79 | 79 | 83 | 76 | 67 | 80 |
| 1954-55 | 63 | 64 | 58 | 70 | 64 | 71 | 68 | 49 | 56 |
| 1955-56 | 174 | 177 | 182 | 178 | 178 | 162 | 180 | 157 | 139 |
| 1956-57 | 82 | 80 | 70 | 80 | 79 | 79 | 73 | 49 | 69 |
| 1957-58 | 155 | 148 | 153 | 159 | 153 | 157 | 159 | 168 | 167 |
| 1958-59 | 54 | 56 | 50 | 57 | 55 | 52 | 38 | 24 | 43 |
| 1959-60 | 55 | 59 | 52 | 50 | 54 | 45 | 45 | 36 | 44 |
| 1960-61 | 37 | 41 | 34 | 39 | 39 | 36 | 29 | 15 | 28 |
| 1961-62 | 92 | 99 | 101 | 116 | 103 | 118 | 98 | 65 | 104 |
| 1962-63 | 117 | 115 | 107 | 117 | 115 | 119 | 124 | 89 | 117 |
| 1963-64 | 60 | 64 | 49 | 56 | 58 | 54 | 57 | 45 | 50 |
| 1964-65 | 164 | 154 | 145 | 137 | 149 | 123 | 121 | 102 | 109 |
| 1965-66 | 65 | 73 | 73 | 78 | 73 | 77 | 61 | 35 | 64 |
| 1966-67 | 178 | 174 | 187 | 195 | 182 | 207 | 254 | 281 | 251 |
| 1967-68 | 59 | 57 | 46 | 52 | 54 | 51 | 54 | 48 | 73 |
| 1968-69 | 203 | 207 | 240 | 244 | 223 | 271 | 314 | 375 | 351 |
| 1969-70 | 122 | 108 | 95 | 87 | 102 | 82 | 88 | 91 | 94 |
| 1970-71 | 98 | 92 | 79 | 85 | 89 | 74 | 73 | 62 | 66 |
| 1971-72 | 71 | 64 | 63 | 66 | 66 | 54 | 42 | 26 | 39 |
| 1972-73 (c) | 112 | 115 | 122 | 123 | 118 | 133 | 152 | 169 | 141 |
| 1973-74 | 144 | 122 | 126 | 132 | 130 | 131 | 121 | 116 | 122 |

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.
(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.
(c) Percent figures are preliminary values and subject to revision.

## TABLE B-2

MONTHLY UNIMPAIRED RUNOFF
(a)

In percent of average

| Month | | Stanislaus River Inflow to Melones | Tuolumne River Inflow to Don Pedro | Merced River Inflow to Exchequer | San Joaquin River Inflow to Millerton | San Joaquin River near Vernalis (b) | Kings River Inflow to Pine Flat | Kaweah River Inflow to Terminus | Tule River Inflow to Success | Kern River Inflow to Isabella |
|---|---|---|---|---|---|---|---|---|---|---|
| October | Percent | 115 | 76 | 120 | 131 | 107 | 132 | 158 | 280 | 116 |
| | Averags | 8 | 14 | 6 | 16 | 45 | 16 | 4 | 1 | 14 |
| November | Percent | 433 | 373 | 284 | 291 | 349 | 203 | 151 | 132 | 118 |
| | Average | 24 | 45 | 20 | 30 | 119 | 28 | 8 | 4 | 17 |
| December | Percent | 183 | 145 | 131 | 132 | 147 | 111 | 82 | 83 | 88 |
| | Average | 52 | 92 | 46 | 62 | 253 | 54 | 21 | 11 | 28 |
| January | Percent | 253 | 168 | 158 | 199 | 192 | 184 | 166 | 170 | 161 |
| | Average | 67 | 108 | 56 | 69 | 300 | 59 | 22 | 14 | 28 |
| February | Percent | 59 | 49 | 47 | 70 | 56 | 67 | 63 | 49 | 84 |
| | Average | 85 | 140 | 80 | 95 | 400 | 80 | 30 | 19 | 32 |
| March | Percent | 191 | 136 | 150 | 163 | 157 | 150 | 144 | 111 | 136 |
| | Average | 112 | 168 | 90 | 128 | 500 | 106 | 38 | 24 | 49 |
| April | Percent | 134 | 98 | 110 | 113 | 112 | 109 | 116 | 147 | 122 |
| | Average | 196 | 282 | 148 | 236 | 863 | 214 | 64 | 24 | 86 |
| May | Percent | 123 | 125 | 135 | 139 | 131 | 144 | 126 | 99 | 122 |
| | Average | 290 | 446 | 242 | 430 | 1408 | 429 | 105 | 22 | 145 |
| June | Percent | 116 | 124 | 124 | 131 | 125 | 139 | 132 | 109 | 130 |
| | Average | 179 | 352 | 168 | 369 | 1069 | 370 | 76 | 10 | 125 |
| July | Percent | 122 | 98 | 100 | 102 | 104 | 104 | 94 | 173 | 105 |
| | Average | 52 | 113 | 48 | 158 | 370 | 150 | 26 | 3 | 63 |
| August | Percent | 148 | 90 | 184 | 130 | 129 | 130 | 123 | 350 | 137 |
| | Average | 13 | 20 | 10 | 46 | 89 | 44 | 7 | 1 | 26 |
| September | Percent | 107 | 12 | 180 | 109 | 95 | 94 | 83 | 0 | 127 |
| | Average | 6 | 8 | 4 | 18 | 36 | 17 | 3 | 0 | 15 |
| 1973-74 Water Year | Percent | 114 | 122 | 126 | 132 | 130 | 131 | 121 | 116 | 122 |
| | Average | 1085 | 1789 | 920 | 1659 | 5452 | 1568 | 404 | 133 | 629 |

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.
(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

## DAILY MEAN DISCHARGE

The streamflow data shown in Table B-3 are arranged, for each stream or stream system, in downstream order. Stations on a tributary 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).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

| | | | |
|---|---|---|---|
| 0.0 | - 9.9 | nearest | Tenth |
| 10 | - 999 | " | Unit |
| 1,000 | - 9,999 | " | Ten |
| 10,000 | - 99,999 | " | Hundred |
| 100,000 | - 999,999 | " | Thousand |

2. Monthly means - second-feet

| | | | |
|---|---|---|---|
| 0.0 | - 99.9 | nearest | Tenth |
| 100 | - 9,999 | " | Unit |
| 10,000 | - 99,999 | " | Ten |
| 100,000 | - 999,999 | " | Hundred |

3. Monthly and yearly totals - acre-feet

| | | | |
|---|---|---|---|
| 0.0 | - 9,999 | nearest | Unit |
| 10,000 | - 99,999 | " | Ten |
| 100,000 | - 999,999 | " | Hundred |
| 1,000,000 | - 9,999,999 | " | Thousand |

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

TABLE B-3

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | 807865 | SAN JOAQUIN RIVER BELOW FRIANT |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 104 | 33 | 41 | 34 | 999 | 73 | 153 | 510 | 280 | 121 | 140 | 106 |
| 2 | 106 | 32 | 39 | 34 | 714 | 85 | 281 | 510 * | 696 | 129 | 142 | 106 |
| 3 | 106 | 32 | 38 | 34 | 528 | 154 | 140 | 510 | 973 | 142 | 140 | 108 |
| 4 | 106 | 32 | 38 | 38 | 442 | 100 | 115 | 437 | 973 | 142 | 140 | 108 |
| 5 | 106 | 32 | 36 | 42 | 343 | 58 | 104 | 191 | 966 | 142 | 140 | 108 |
| 6 | 100 | 38 | 38 | 52 | 164 | 54 | 227 | 106 | 945 | 146 | 140 | 99 |
| 7 | 95 | 54 | 38 | 104 | 62 * | 52 | 366 | 102 | 952 | 151 | 138 | 90 |
| 8 | 97 | 55 | 39 | 87 | 63 | 75 | 362 | 102 | 952 | 151 | 136 | 90 |
| 9 | 95 | 65 | 39 | 71 | 63 | 73 | 366 | 102 | 952 | 151 | 136 | 88 |
| 10 | 95 | 75 | 39 | 97 | 78 | 71 | 362 | 102 | 791 | 151 | 134 | 88 |
| 11 | 90 | 75 | 36 | 85 | 94 | 68 | 358 | 102 | 388 | 154 | 134 | 88 |
| 12 | 83 | 75 | 36 | 87 | 95 | 63 | 350 | 102 | 134 | 158 | 134 | 88 |
| 13 | 83 | 75 | 36 | 82 | 104 | 60 | 539 | 99 | 106 | 156 | 132 | 88 |
| 14 | 83 | 75 | 36 | 78 | 99 | 60 | 762 | 95 | 80 | 154 | 129 | 88 |
| 15 | 85 | 75 | 34 | 76 | 95 | 58 | 756 | 99 | 85 | 151 | 129 | 88 |
| 16 | 85 | 68 | 34 | 94 | 94 | 60 | 605 | 108 | 87 | 154 | 129 | 87 |
| 17 | 85 | 57 | 34 | 117 | 87 | 58 | 510 | 108 | 88 | 151 | 127 | 87 |
| 18 | 80 | 57 | 34 | 236 | 76 | 58 | 524 * | 108 | 87 * | 147 | 129 | 87 |
| 19 | 73 | 57 | 34 | 490 | 76 | 58 | 524 | 106 | 90 | 147 | 129 | 87 |
| 20 | 71 | 57 | 34 | 661 | 76 | 57 | 524 | 108 | 104 | 147 | 125 | 87 |
| 21 | 66 | 50 | 34 | 880 | 73 | 55 | 520 | 108 | 125 | 147 | 125 | 87 |
| 22 | 63 | 33 | 34 | 1180 | 70 | 52 | 520 | 110 | 123 | 147 | 125 | 87 |
| 23 | 58 | 32 | 34 | 1360 | 66 | 54 | 520 | 110 | 136 | 144 | 123 | 87 |
| 24 | 57 | 44 | 34 | 1350 | 68 | 52 | 520 | 110 | 108 | 144 | 121 | 85 |
| 25 | 57 | 47 | 34 | 1340 | 70 | 50 | 520 | 110 | 87 | 142 | 121 | 92 |
| 26 | 57 | 38 | 36 | 1340 | 70 * | 52 | 520 | 110 | 90 | 142 | 117 | 99 |
| 27 | 54 | 34 * | 41 * | 1340 | 70 | 54 | 520 | 125 | 88 | 142 | 110 | 99 |
| 28 | 49 | 34 | 36 | 1300 | 70 | 76 | 515 | 129 | 104 * | 142 | 110 | 100 |
| 29 | 49 | 36 | 34 | 1290 | | 70 * | 510 * | 132 | 121 | 140 | 108 | 100 |
| 30 | 47 * | 39 | 34 | 1290 | | 70 | 510 | 134 * | 123 | 140 | 106 * | 100 |
| 31 | 46 | | 34 | 1140 * | | 68 | | 136 | | 140 * | 108 | |
| MEAN | 78.4 | 50.2 | 36.1 | 529 | 175 | 66.1 | 437 | 162 | 361 | 146 | 128 | 93 |
| MAX. | 106 | 75 | 41 | 1360 | 999 | 154 | 762 | 510 | 973 | 158 | 142 | 108 |
| MIN. | 46 | 32 | 34 | 34 | 62 | 50 | 104 | 95 | 80 | 121 | 106 | 85 |
| AC. FT. | 4820 | 2990 | 2220 | 32550 | 9740 | 4060 | 25990 | 9960 | 21490 | 8960 | 7850 | 55[illegible] |

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 FT. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 188 | 1380 | 4.66 | 1 | 22 | 1800 | 32 | 1.73 | 11 | 2 | | 1362[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 | REFERENCE DATUM |
| 36 59 04 | 119 43 24 | SW 7 11S 21E | 77,000<br>12,400[a] | 23.8<br>11.69 | 12-11-37<br>6-6-69 | OCT 07-DATE | | 1938 | | 294.00 | USG[illegible] |

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

a Maximum flows since construction of Friant Dam in 1944.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C00200 | JAMES BYPASS NEAR SAN JOAQUIN |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | 0 | 729 | 0 | | | | 1 |
| 2 | | | | | | | 0 | 726 | 261 | | | | 2 |
| 3 | | | | | | | 0 | 705 | 776 | | | | 3 |
| 4 | | | | | | | 388 | 654 | 828 | | | | 4 |
| 5 | | | | | | | 172 | 600 | 735 | | | | 5 |
| | | | | | | | 0 | | | | | | |
| 6 | | | | | | | 0 | 370 | 702 | | | | 6 |
| 7 | | | | | | | 0 | 265 | 963 | | | | 7 |
| 8 | | | | | | | 0 | 212 | 1320 | | | | 8 |
| 9 | | | | | | | 0 | 58 | 1629 | | | | 9 |
| 10 | | | | | | | 0 | 0 | 1845 | | | | 10 |
| 11 | | | | | | | 0 | 0 | 2076 | | | | 11 |
| 12 | | | | | | | 0 | 0 | 2181 | | | | 12 |
| 13 | N | N | N | N | N | N | 0 | 0 | 2001 | N | N | N | 13 |
| 14 | O | O | O | O | O | O | 0 | 0 | 1863 | O | O | O | 14 |
| 15 | | | | | | | 0 | 0 | 1440 | | | | 15 |
| 16 | F | F | F | F | F | F | 103 | 0 | 1350 | F | F | F | 16 |
| 17 | L | L | L | L | L | L | 308 | 0 | 1374 | L | L | L | 17 |
| 18 | O | O | O | O | O | O | 365 | 0 | 1488 | O | O | O | 18 |
| 19 | W | W | W | W | W | W | 511 | 113 | 1076 | W | W | W | 19 |
| 20 | | | | | | | 660 | 559 | 232 | | | | 20 |
| 21 | | | | | | | 801 | 663 | 52 | | | | 21 |
| 22 | | | | | | | 699 | 672 | 0 | | | | 22 |
| 23 | | | | | | | 708 | 598 | 0 | | | | 23 |
| 24 | | | | | | | 532 | 510 | 0 | | | | 24 |
| 25 | | | | | | | 492 | 558 | 0 | | | | 25 |
| 26 | | | | | | | 575 | 598 | 0 | | | | 26 |
| 27 | | | | | | | 630 | 612 | 0 | | | | 27 |
| 28 | | | | | | | 756 | 475 | 0 | | | | 28 |
| 29 | | | | | | | 768 | 258 | 0 | | | | 29 |
| 30 | | | | | | | 777 | 105 | 0 | | | | 30 |
| 31 | | | | | | | | 12 | | | | | 31 |
| MEAN | | | | | | | 308 | 324 | 806 | | | | MEAN |
| MAX. | | | | | | | 801 | 729 | 2181 | | | | MAX. |
| MIN. | | | | | | | 0 | 0 | 0 | | | | MIN. |
| AC. FT. | | | | | | | 18340 | 19940 | 47980 | | | | 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 |
| 119 | 2244 | 8.48 | 6 | 12 | 0900 | 0 | | | | | 86260 |

| 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 39 06 | 120 10 45 | SW 1 15S 16E | 5600 | 12.22 | 6-7-69 | APRIL 29-DATE | | | | | |

Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin. James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions. Altitude of gage is 165 feet (from U. S. Geological Survey topographic map). This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period 1953 through 1974 are available from their office in Sacramento. Records since 1969 have been published in the Bulletin No. 130 series of reports.

## TABLE B-3 (Cont.)
## DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B95925 | DELTA-MENDOTA CANAL NEAR TRACY |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3744 | 3302 | 2333 | 854 | 2473 | 4174 | 2777 | 3286 | 4507 | 4502 | 4528 | 3930 |
| 2 | 3737 | 3296 | 2315 | 854 | 2488 | 4245 | 2796 | 3519 | 4490 | 4509 | 4524 | 3945 |
| 3 | 3725 | 3289 | 2329 | 857 | 2488 | 4635 | 2667 | 3948 | 4529 | 4459 | 4542 | 3661 |
| 4 | 3722 | 3283 | 2318 | 856 | 2474 | 4241 | 2339 | 4189 | 4505 | 4554 | 4537 | 3229 |
| 5 | 3731 | 3286 | 2332 | 861 | 2480 | 4615 | 2344 | 4193 | 4512 | 4537 | 4522 | 3024 |
| 6 | 3738 | 3297 | 2377 | 862 * | 2679 | 4595 | 2024 | 4117 | 4534 | 4453 | 4532 | 2992 |
| 7 | 3751 | 3202 | 2411 | 861 | 2824 | 4610 | 1934 | 4230 | 4540 | 4457 | 4517 | 2868 |
| 8 | 3726 | 3195 | 2338 | 863 | 3221 | 4324 | 1939 | 4567 | 4394 | 4478 | 4523 | 2869 |
| 9 | 3736 | 3202 | 2338 | 862 | 3237 | 4224 | 1981 | 4566 | 4200 | 4494 | 4283 | 2868 |
| 10 | 3730 | 3140 | 1102 | 861 | 3248 | 4291 | 1965 | 4368 | 3736 | 4472 | 4604 | 2867 |
| 11 | 3730 | 2992 | 1073 | 857 | 3250 | 4241 | 1980 | 4541 | 3716 | 4471 | 4594 | 2857 |
| 12 | 3796 | 2995 | 1113 | 857 | 3258 | 4042 | 2102 | 4541 | 3868 | 4485 | 4606 | 2852 |
| 13 | 3661 | 2990 | 855 | 856 | 3272 | 4162 | 2369 | 4539 | 3956 | 4472 | 4612 | 2875 |
| 14 | 3739 | 2996 | 856 | 855 | 3328 | 4039 | 2371 | 4540 | 4197 | 4477 | 4564 | 2874 |
| 15 | 3300 | 2874 | 853 | 1336 | 3520 | 4033 | 2384 | 4522 | 4534 | 4504 | 4636 | 2773 |
| 16 | 3044 | 2985 | 852 | 1684 | 3676 | 4145 | 2496 | 4532 | 4492 | 4517 | 4450 | 2768 |
| 17 | 3034 | 2982 | 853 | 1677 | 3679 | 4313 | 2434 | 4543 | 4517 | 4527 | 4563 | 3262 |
| 18 | 3007 | 2995 | 1366 | 1683 | 3717 | 4612 | 2340 | 4527 | 4437 | 4245 | 4537 | 3274 |
| 19 | 2939 | 2980 | 1688 | 1683 | 3987 | 4603 | 2481 | 4502 | 4450 | 4547 | 4542 | 3334 |
| 20 | 2921 | 2364 | 1664 | 1687 | 3985 | 4599 | 2541 | 4532 | 4569 | 4529 | 4548 | 3286 |
| 21 | 2943 | 2535 | 1672 | 1167 | 4218 | 4582 | 2541 | 4522 | 4596 | 4518 | 4542 | 3299 |
| 22 | 3036 | 3032 | 1676 | 858 | 4227 | 4572 | 2597 | 4526 | 4527 | 4525 | 4536 | 3291 |
| 23 | 3168 | 2987 | 1674 | 858 | 4361 | 4591 | 2608 | 4524 | 4537 | 4512 | 4558 | 3284 |
| 24 | 3073 | 2976 | 1673 | 1375 | 4357 | 4576 | 2789 | 4512 | 4522 | 4504 | 4546 | 3259 |
| 25 | 2975 | 2960 | 1671 | 1687 | 4217 | 4572 | 3248 | 4487 | 4512 | 4489 | 4574 | 3300 |
| 26 | 2993 | 2949 | 1671 | 1684 | 4159 | 4368 | 3379 | 4479 | 4502 | 4523 | 4547 | 3940 |
| 27 | 3086 | 2983 | 1258 | 1676 | 4223 | 4352 | 3369 | 4489 | 4487 | 4499 | 4587 | 3918 |
| 28 | 2980 | 3058 | 852 | 1683 | 4203 | 3853 | 3370 | 4480 | 4487 | 4537 | 4561 | 3977 |
| 29 | 2915 | 2320 | 854 | 1678 | | 3448 | 3366 | 4484 | 4497 | 4542 | 4560 | 4558 |
| 30 | 2978 | 2327 | 852 | 1676 | | 2869 | 3368 | 4490 | 4502 | 4552 | 4398 | 4372 |
| 31 | 2916 | | 853 | 2155 | | 2844 | | 4476 | | 4527 | 3940 | |
| MEAN | 3341 | 2992 | 1551 | 1234 | 3473 | 4238 | 2563 | 4379 | 4395 | 4497 | 4520 | 3320 |
| MAX. | 3796 | 3302 | 2411 | 1687 | 4361 | 4635 | 3370 | 4567 | 4596 | 4554 | 4636 | 4558 |
| MIN. | 2915 | 2320 | 852 | 854 | 2473 | 2844 | 1934 | 3286 | 3716 | 4245 | 3940 | 2768 |
| AC. FT. | 205685 | 178063 | 95351 | 75823 | 192893 | 260572 | 152529 | 269288 | 261528 | 276534 | 277914 | 197569 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3375 | 4636 | | 8 | 15 | Daily | 852 | | 12 | 16 | Daily | 2443749 |

| 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 ON GAGE | REF. DATUM |
| 37 47 45 | 121 35 05 | SW31 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-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B00770 | DELTA-MENDOTA CANAL TO MENDOTA POOL |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1682 | 690 | 124 | | 0 | 1673 | 445 | 669 | 2482 | 2716 | 2919 | 2036 | 1 |
| 2 | 1647 | 630 | 124 | | 0 | 1649 | 426 | 983 | 2282 | 2726 | 2901 | 1974 | 2 |
| 3 | 1670 | 620 | 208 | | 0 | 1649 | 223 | 1203 | 1685 | 2860 | 2902 | 1765 | 3 |
| 4 | 1709 | 609 | 185 | | 0 | 1614 | 0 | 1263 | 1401 | 2860 | 2902 | 1611 | 4 |
| 5 | 1709 | 598 | 173 | | 237 | 1598 | 0 | 1263 | 1312 | 2857 | 3030 | 1523 | 5 |
| 6 | 1709 | 629 | 208 | | 548 | 1600 | 127 | 1350 | 1319 | 2847 | 3072 | 1542 | 6 |
| 7 | 1696 | 655 | 169 | | 573 | 1481 | 405 | 1504 | 1221 | 2787 | 3040 | 1482 | 7 |
| 8 | 1395 | 662 | 169 | | 617 | 1347 | 400 | 1690 | 1061 | 2646 | 3073 | 1482 | 8 |
| 9 | 1309 | 673 | 169 | | 617 | 1136 | 387 | 1897 | 550 | 2615 | 3057 | 1524 | 9 |
| 10 | 1293 | 634 | 143 | | 704 | 1095 | 362 | 1984 | 112 | 2664 | 3058 | 1582 | 10 |
| 11 | 1401 | 635 | 190 | | 780 | 1059 | 360 | 2042 | 0 | 2556 | 3058 | 1573 | 11 |
| 12 | 1372 | 616 | 175 | | 964 | 937 | 425 | 2104 | 0 | 2599 | 2902 | 1584 | 12 |
| 13 | 1279 | 577 | 134 | N | 913 | 950 | 600 | 2220 | 0 | 2595 | 2758 | 1523 | 13 |
| 14 | 1126 | 585 | 31 | O | 903 | 975 | 600 | 2241 | 349 | 2579 | 2907 | 1512 | 14 |
| 15 | 1071 | 526 | 0 | | 891 | 1026 | 670 | 2067 | 925 | 2549 | 2967 | 1477 | 15 |
| 16 | 1078 | 466 | 0 | F | 1038 | 1154 | 830 | 2059 | 1171 | 2562 | 2992 | 1564 | 16 |
| 17 | 1162 | 346 | 0 | L | 1038 | 1288 | 562 | 1985 | 1269 | 2637 | 2922 | 1636 | 17 |
| 18 | 1187 | 336 | 0 | O | 1083 | 1367 | 400 | 1956 | 1142 | 2722 | 2922 | 1683 | 18 |
| 19 | 1107 | 323 | 0 | W | 1077 | 1502 | 400 | 1956 | 1222 | 2886 | 2808 | 1665 | 19 |
| 20 | 946 | 340 | 0 | | 1135 | 1445 | 531 | 1452 | 2083 | 2915 | 2768 | 1731 | 20 |
| 21 | 890 | 315 | 0 | | 1150 | 1470 | 565 | 1179 | 2639 | 2970 | 2750 | 1795 | 21 |
| 22 | 814 | 314 | 0 | | 1161 | 1500 | 400 | 1230 | 2637 | 2947 | 2636 | 1831 | 22 |
| 23 | 748 | 323 | 0 | | 1224 | 1453 | 425 | 1744 | 2637 | 2996 | 2575 | 1907 | 23 |
| 24 | 750 | 323 | 0 | | 1346 | 1453 | 635 | 1615 | 2757 | 3018 | 2536 | 1989 | 24 |
| 25 | 790 | 323 | 0 | | 1458 | 1354 | 976 | 1725 | 2820 | 3016 | 2536 | 2001 | 25 |
| 26 | 790 | 323 | 0 | | 1550 | 1244 | 931 | 1725 | 2800 | 2994 | 2387 | 1958 | 26 |
| 27 | 790 | 324 | 0 | | 1649 | 1184 | 781 | 1750 | 2726 | 2994 | 2125 | 2018 | 27 |
| 28 | 740 | 326 | 0 | | 1685 | 1045 | 643 | 1822 | 2640 | 2994 | 2065 | 1976 | 28 |
| 29 | 747 | 296 | 0 | | | 622 | 530 | 1982 | 2623 | 2967 | 2038 | 1935 | 29 |
| 30 | 730 | 226 | 0 | | | 511 | 500 | 2248 | 2623 | 3048 | 1990 | 1845 | 30 |
| 31 | 702 | | 0 | | | 452 | | 2422 | | 3005 | 1990 | | 31 |
| MEAN | 1163 | 475 | 71 | | 869 | 1253 | 485 | 1720 | 1616 | 2811 | 2729 | 1724 | MEAN |
| MAX. | 1709 | 690 | 208 | | 1685 | 1673 | 976 | 2422 | 2820 | 3048 | 3072 | 2036 | MAX. |
| MIN. | 702 | 226 | 0 | | 0 | 452 | 0 | 669 | 0 | 2549 | 1990 | 1477 | MIN. |
| AC. FT. | 71540 | 28250 | 4370 | | 48280 | 77020 | 28840 | 105780 | 96180 | 172820 | 167780 | 102590 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1248 | 3073 | | 8 | 8 | | 0 | | 12 | 15 | | 903450 |

| 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 | NW19 13S 15E | | | | JUL 51-DATE | | | | | |

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-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07710 | SAN JOAQUIN RIVER NEAR MENDOTA |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 194 | 134 | 68 | 50 | 104 | 303 | 132 | 348 | 487 | 518 | 468 | 371 |
| 2 | 188 | 100 | 64 | 47 | 83 | 291 | 116 | 373 | 490 | 510 | 476 | 353 |
| 3 | 241 | 100 | 64 | 43 | 258 | 291 | 163 | 398 | 487 | 504 | 470 | 335 |
| 4 | 234 | 103 | 63 | 42 | 169 | 300 | 267 | 395 | 473 | 507 | 470 | 340 |
| 5 | 223 | 110 | 64 | 41 | 63 | 325 | 103 | 384 | 464 | 510 | 467 | 332 |
| 6 | 215 | 132 | 64 | 40 | 55 | 325 | 98 | 390 | 473 | 516 | 467 | 338 |
| 7 | 204 | 134 | 65 | 44 | 52 | 312 | 95 | 390 | 513 | 528 | 467 | 343 |
| 8 | 198 | 134 | 66 | 48 | 50 | 293 | 103 | 382 | 519 | 531 | 481 | 340 |
| 9 | 190 | 136 | 66 | 48 | 49 | 286 | 106 | 382 | 516 | 510 | 495 | 338 |
| 10 | 188 | 136 | 68 | 47 | 108 | 245 | 118 | 287 | 495 | 498 | 492 | 343 |
| 11 | 192 | 134 | 69 | 45 | 157 | 204 | 124 | 419 | 492 | 492 | 484 | 348 |
| 12 | 187 | 132 | 69 | 49 | 157 | 168 | 145 | 419 | 513 | 495 | 476 | 351 |
| 13 | 178 | 132 | 69 | 55 | 155 | 167 | 145 | 419 | 552 | 498 | 456 | 358 |
| 14 | 159 | 132 | 70 | 50 | 155 | 165 | 145 | 428 | 549 | 501 | 447 | 366 |
| 15 | 157 | 136 | 70 | 44 | 155 | 161 | 170 | 438 | 534 | 504 | 447 | 348 |
| 16 | 157 | 119 | 168 | 40 | 157 | 176 | 219 | 438 | 525 | 510 | 456 | 322 |
| 17 | 165 | 105 | 277 | 34 | 159 | 206 | 245 | 436 | 525 | 525 | 473 | 320 |
| 18 | 165 | 105 | 412 | 29 | 176 | 225 | 245 | 433 | 519 | 525 | 487 | 318 |
| 19 | 161 | 105 | 513 | 23 | 196 | 236 | 242 | 430 | 522 | 522 | 461 | 318 |
| 20 | 159 | 103 | 447 | 20 | 196 | 238 | 245 | 438 | 510 | 528 | 433 | 318 |
| 21 | 159 | 103 | 303 | 19 | 204 | 240 | 245 | 444 | 510 | 534 | 433 | 320 |
| 22 | 157 | 102 | 172 | 16 | 213 | 242 | 247 | 441 | 519 | 534 | 441 | 348 |
| 23 | 150 | 100 | 98 | 15 | 219 | 227 | 247 | 436 | 531 | 531 | 447 | 374 |
| 24 | 145 | 98 | 75 | 15 | 225 | 215 | 245 | 436 | 537 | 528 | 450 | 403 |
| 25 | 145 | 97 | 72 | 14 | 230 | 215 | 258 | 438 | 531 | 531 | 456 | 450 |
| 26 | 154 | 97 | 69 | 13 | 240 | 217 | 279 | 438 | 528 | 531 | 464 | 450 |
| 27 | 168 | 95 | 66 | 15 | 249 | 215 | 286 | 444 | 534 | 528 | 467 | 438 |
| 28 | 172 | 95 | 66 | 71 | 265 | 211 | 288 | 444 | 525 | 528 | 467 | 398 |
| 29 | 170 | 94 | 63 | 214 | | 182 | 291 | 438 | 525 | 516 | 430 | 395 |
| 30 | 170 | 84 | 58 | 59 | | 163 | 318 | 430 | 519 | 516 | 390 | 326 |
| 31 | 170 | | 53 | 103 | | 145 | | 461 | | 481 | 382 | |
| MEAN | 178 | 113 | 126 | 44.9 | 161 | 232 | 198 | 419 | 514 | 516 | 458 | 357 |
| MAX. | 241 | 136 | 513 | 214 | 265 | 325 | 318 | 444 | 552 | 534 | 495 | 450 |
| MIN. | 145 | 84 | 53 | 13 | 49 | 145 | 95 | 348 | 464 | 481 | 382 | 318 |
| AC. FT. | 10940 | 6720 | 7760 | 2760 | 8920 | 14260 | 11760 | 25740 | 30580 | 31720 | 28170 | 21230 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 277 | 555 | 4.30 | 6 | 13 | 0700 | 13 | 1.62 | 1 | 25 | 2100 | 200560 |

| 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 48 37 | 120 22 35 | SW 7 13S 15E | 11740a | 13.75 | 6-20-41 | | | 1939 | 1953 | 142.53 | USBR |
| | | | 8840 | | 6- 1-52 | OCT 39-DATE | | 1954 | | 140.53 | USBR |

Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.

## TABLE B-3 (Cont.)
## DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07610 | SAN JOAQUIN RIVER NEAR DOS PALOS |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 0 | 0 | 205 | 5 | 0 | 12 | 12 | 0 | 12 | 12 | 1 |
| 2 | | | 0 | 0 | 210 | 12 | 0 | 3 | 12 | 0 | 12 | 12 | 2 |
| 3 | | | 0 | 0 | 212 | 5 | 0 | 0 | 12 | 0 | 12 | 12 | 3 |
| 4 | | | 0 | 0 | 546 | 0 | 0 | 0 | 3 | 0 | 12 | 5 | 4 |
| 5 | | | 0 | 0 | 345 | 0 | 0 | 0 | 0 | 9 | 12 | 0 | 5 |
| 6 | | | 0 | 0 | 160 | 0 | 0 | 3 | 9 | 10 | 12 | 0 | 6 |
| 7 | | | 0 | 6 | 4 | 0 | 0 | 12 | 7 | 0 | 12 | 0 | 7 |
| 8 | | | 0 | 40 | 12 | 0 | 0 | 8 | 0 | 0 | 12 | 0 | 8 |
| 9 | | | 0 | 52 | 12 | 0 | 0 | 0 | 0 | 9 | 12 | 0 | 9 |
| 10 | | | 0 | 54 | 5 | 0 | 0 | 0 | 6 | 12 | 12 | 0 | 10 |
| 11 | | | 0 | 50 | 0 | 0 | 0 | 0 | 12 | 12 | 12 | 6 | 11 |
| 12 | | | 0 | 48 | 0 | 0 | 0 | 0 | 7 | 12 | 12 | 12 | 12 |
| 12 | N | N | 0 | 57 | 0 | 0 | 0 | 9 | 9 | 7 | 12 | 12 | 13 |
| 14 | O | O | 4 | 59 | 0 | 0 | 0 | 3 | 12 | 0 | 12 | 4 | 14 |
| 15 | O | | 7 | 47 | 0 | 0 | 0 | 0 | 9 | 9 | 12 | 0 | 15 |
| 16 | F | F | 8 | 37 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 16 |
| 17 | L | L | 108 | 29 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 9 | 17 |
| 18 | O | O | 375 | 26 | 9 | 0 | 0 | 0 | 0 | 7 | 12 | 12 | 18 |
| 19 | W | W | 700 | 22 | 4 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 19 |
| 20 | | | 853 | 18 | 0 | 0 | 0 | 9 | 0 | 0 | 12 | 4 | 20 |
| 21 | | | 775 | 18 | 0 | 0 | 9 | 3 | 0 | 0 | 12 | 0 | 21 |
| 22 | | | 532 | 6 | 8 | 0 | 12 | 0 | 8 | 0 | 12 | 0 | 22 |
| 22 | | | 303 | 3 | 12 | 0 | 4 | 0 | 12 | 6 | 9 | 0 | 22 |
| 24 | | | 158 | 2 | 9 | 0 | 0 | 0 | 4 | 12 | 0 | 0 | 24 |
| 25 | | | 76 | 2 | 0 | 0 | 0 | 0 | 9 | 12 | 0 | 0 | 25 |
| 26 | | | 46 | 2 | 0 | 0 | 10 | 9 | 12 | 12 | 6 | 0 | 26 |
| 27 | | | 31 | 1 | 0 | 0 | 3 | 12 | 3 | 12 | 9 | 0 | 27 |
| 28 | | | 22 | 2 | 0 | 0 | 0 | 12 | 7 | 4 | 7 | 0 | 28 |
| 29 | | | 21 | 124 | | 0 | 9 | 8 | 12 | 0 | 0 | 0 | 29 |
| 30 | | | 1 | 345 | | 0 | 12 | 0 | 12 | 9 | 0 | 0 | 30 |
| 21 | | | 0 | 136 | | 0 | | 5 | | 12 | 9 | | 31 |
| MEAN | | | 130 | 38.3 | 62.6 | 0.7 | 2.0 | 3.5 | 6.3 | 6.1 | 9.8 | 3.7 | MEAN |
| MAX. | | | 853 | 345 | 546 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | MAX. |
| MIN. | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MIN. |
| AC. FT. | | | 7970 | 2350 | 3480 | 44 | 117 | 214 | 375 | 377 | 600 | 222 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 21.8 | 853 | 3.46 | 12 | 20 | 1200 | 0 | | | | | 15749 |

| 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 59 38 | 120 30 02 | N½12 11S 13E | 8920a<br>8200 | 10.52b | 6-24-41<br>6- 5-52 | OCT 40-DATE | | 1945 | 1944 | 116.5 | USED |

Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.
b Gage height at site and datum then in use.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B67325 | LEWIS FORK FRESNO RIVER NEAR OAKHURST |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.6 * | 8.4 | 88 | 40 | 37 | 119 | 315 * | 70 * | 92 | 31 | 10 | 4.5 |
| 2 | 5.4 | 9.4 | 36 | 30 | 36 | 205 | 414 | 107 | 94 | 30 | 4.6 | 4.2 |
| 3 | 6.8 | 7.9 | 29 | 29 * | 35 | 103 | 126 | 108 | 92 | 29 | 3.7 | 3.7 * |
| 4 | 7.6 | 8.0 | 28 | 31 | 34 | 75 * | 90 | 109 | 91 | 27 | 4.0 | 4.1 |
| 5 | 10 | 9.0 * | 26 | 30 | 33 * | 71 | 77 | 110 | 91 | 24 * | 4.7 | 3.9 |
| 6 | 13 | 10 | 24 * | 29 | 28 | 71 | 70 | 110 | 91 | 23 | 4.8 | 3.8 |
| 7 | 18 | 12 | 24 | 39 | 28 | 73 | 66 | 108 | 89 * | 23 | 4.9 * | 3.7 |
| 8 | 25 | 11 | 23 | 37 | 27 | 74 | 61 | 105 | 81 | 23 | 4.3 | 3.5 |
| 9 | 9.9 | 10 | 22 | 34 | 27 | 61 | 72 | 103 | 67 | 26 | 4.6 | 3.2 |
| 10 | 7.6 | 20 | 22 | 33 | 26 | 56 | 62 | 95 | 44 | 30 | 5.1 | 3.9 |
| 11 | 8.1 | 30 | 22 | 31 | 25 | 53 | 60 | 93 | 42 | 27 | 4.6 | 3.8 |
| 12 | 7.8 | 67 | 22 | 47 | 26 | 55 | 57 | 91 | 46 | 24 | 4.6 | 2.8 |
| 13 | 10 | 29 | 26 | 43 | 26 | 54 | 57 | 83 | 45 | 21 | 5.1 | 2.9 |
| 14 | 14 | 31 | 28 | 39 | 26 | 54 | 61 | 61 | 43 | 20 | 7.1 | 3.1 |
| 15 | 15 | 23 | 24 | 46 | 25 | 56 | 58 | 59 | 42 | 19 | 9.3 | 3.1 |
| 16 | 13 | 23 | 22 | 69 | 25 | 53 | 59 | 65 | 44 | 19 | 9.3 | 3.7 |
| 17 | 13 | 49 | 22 | 145 | 25 | 50 | 62 | 106 | 55 | 17 | 9.3 | 3.6 |
| 18 | 9.8 | 77 | 22 | 107 | 24 | 47 | 63 | 104 | 49 | 17 | 7.8 | 3.5 |
| 19 | 3.6 | 32 | 21 | 91 | 28 | 47 | 63 | 106 | 48 | 16 | 7.5 | 3.0 |
| 20 | 4.5 | 27 | 20 | 115 | 24 | 46 | 61 | 102 | 45 | 17 | 5.9 | 2.8 |
| 21 | 6.1 | 26 | 24 | 86 | 26 | 44 | 57 | 101 | 44 | 16 | 6.5 | 2.9 |
| 22 | 8.5 | 22 | 33 | 65 | 27 | 42 | 55 | 101 | 41 | 16 | 6.2 | 2.9 |
| 23 | 29 | 21 | 26 | 57 | 27 | 42 | 58 | 102 | 38 | 15 | 5.5 | 3.0 |
| 24 | 11 | 22 | 24 | 51 | 26 | 41 | 70 | 100 | 37 | 14 | 5.2 | 3.1 * |
| 25 | 10 | 21 | 23 | 48 | 25 | 40 | 59 | 101 | 35 | 15 | 5.1 | 2.9 |
| 26 | 8.3 | 21 | 24 | 45 | 25 | 40 | 57 | 102 | 35 | 13 | 5.2 | 3.1 |
| 27 | 7.4 | 20 | 83 | 42 | 25 | 52 | 56 | 99 | 37 | 13 | 5.4 | 2.9 |
| 28 | 7.4 | 20 | 72 | 40 | 26 | 112 | 56 | 99 | 35 | 13 | 5.8 | 3.0 |
| 29 | 7.7 | 21 | 53 | 39 | | 73 | 56 | 99 | 33 | 12 | 5.7 | 2.3 |
| 30 | 7.6 | 21 | 47 | 38 | | 95 | 56 | 97 | 32 | 12 | 5.8 | 2.1 |
| 31 | 7.2 | | 39 | 37 | | 78 | | 96 | | 12 | 5.1 | |
| MEAN | 10.2 | 23.6 | 32.2 | 52.0 | 27.6 | 67.2 | 84.5 | 96.5 | 55.3 | 19.8 | 5.9 | 3.3 |
| MAX. | 29 | 77 | 88 | 145 | 37 | 205 | 414 | 110 | 94 | 31 | 10 | 4.5 |
| MIN. | 3.6 | 7.9 | 20 | 29 | 24 | 40 | 55 | 59 | 32 | 12 | 3.7 | 2.1 |
| AC. FT. | 627 | 1406 | 1981 | 3199 | 1531 | 4130 | 5026 | 5935 | 3289 | 1218 | 362 | 196 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 1046 | 3.76 | 4 | 1 | 2200 | 1.6 | 0.90 | 9 | 30 | 1430 | 28900 |

| 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 44 | 119 38 20 | SE 2 7S 21E | 2000 | 5.00 | 2-1-63 | SEP 61-DATE | | 1961 | | 0.00 | LOCAL |

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,300 feet, from topographic map. Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | 867300 | MIAMI CREEK NEAR OAKHURST |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.8 * | 2.0 | 17 | 9.6 | 9.2 | 75 | 103 | 15 * | 7.4 | 3.7 | 2.3 | 1.0 | 1 |
| 2 | 0.8 | 2.0 | 9.1 | 8.1 | 9.0 | 96 | 103 | 14 | 7.2 | 3.7 | 2.2 | 1.0 | 2 |
| 3 | 0.8 | 2.0 | 6.8 | 7.3 * | 8.6 | 33 | 40 | 14 | 7.1 | 3.6 | 2.1 | 0.9 * | 3 |
| 4 | 0.9 | 2.0 | 6.2 | 7.3 | 8.4 | 24 | 31 | 13 | 6.9 | 3.6 | 2.1 | 0.9 | 4 |
| 5 | 0.8 | 2.1 * | 5.5 | 7.3 | 8.3 * | 22 | 27 | 13 | 6.8 | 3.4 * | 2.2 | 0.9 | 5 |
| 6 | 0.8 | 2.6 | 5.0 * | 6.2 | 8.1 | 23 | 25 | 13 | 6.8 | 3.3 | 2.1 | 0.9 | 6 |
| 7 | 1.4 | 2.9 | 4.8 | 8.0 | 7.8 | 24 | 24 | 12 | 6.7 * | 3.3 | 2.0 * | 0.8 | 7 |
| 8 | 6.3 | 2.4 | 4.8 | 8.4 | 7.4 | 24 | 22 * | 12 | 6.5 | 3.3 | 1.8 | 0.9 | 8 |
| 9 | 3.2 | 2.2 | 4.6 | 7.7 | 7.6 | 21 | 24 | 11 | 6.3 | 3.7 | 1.8 | 0.9 | 9 |
| 10 | 2.2 | 3.8 | 4.6 | 7.1 | 7.6 | 19 | 22 | 11 | 6.1 | 4.3 | 1.8 | 0.9 | 10 |
| 11 | 1.9 | 6.3 | 4.6 | 6.8 | 7.4 | 19 | 21 | 11 | 5.9 | 4.4 | 1.6 | 0.9 | 11 |
| 12 | 1.8 | 23 | 4.6 | 9.8 | 7.4 | 21 | 21 | 10 | 5.8 | 4.1 | 1.6 | 0.9 | 12 |
| 13 | 1.7 | 7.3 | 5.5 | 11 | 7.8 | 20 | 21 | 10 | 5.6 | 3.8 | 1.5 | 0.9 | 12 |
| 14 | 1.5 | 8.3 | 7.0 | 10 | 7.5 | 21 | 19 | 9.8 | 5.5 | 3.6 | 1.5 | 0.9 | 14 |
| 15 | 1.5 | 5.5 | 5.4 | 13 | 7.3 | 21 | 18 | 9.6 | 5.3 | 3.4 | 1.5 | 0.9 | 15 |
| 16 | 1.4 | 5.3 | 4.9 | 23 | 7.2 | 20 | 18 | 9.5 | 5.3 | 3.3 | 1.5 | 0.9 | 16 |
| 17 | 1.3 | 20 | 4.7 | 56 | 7.0 | 19 | 17 | 9.2 | 5.4 | 3.1 | 1.5 | 0.9 | 17 |
| 18 | 1.3 | 30 | 4.8 | 36 | 6.9 | 18 | 17 | 9.2 | 5.3 | 3.1 | 1.4 | 0.9 | 18 |
| 19 | 1.4 | 9.3 | 4.4 | 28 | 7.7 | 18 * | 17 | 9.6 | 5.3 | 3.0 | 1.4 | 0.9 | 19 |
| 20 | 1.4 | 6.8 | 4.3 | 33 | 7.4 | 17 | 17 | 9.8 | 5.4 | 2.9 | 1.4 | 0.9 | 20 |
| 21 | 1.4 | 6.5 | 4.8 | 23 | 7.3 | 17 | 16 | 9.5 | 5.2 | 2.8 | 1.4 | 0.9 | 21 |
| 22 | 1.7 | 5.3 | 7.4 | 17 | 6.8 | 16 | 15 | 9.2 | 5.0 | 2.7 | 1.3 | 0.9 | 22 |
| 22 | 11 | 4.8 | 5.9 | 14 | 6.9 | 15 | 16 | 9.0 | 4.8 | 2.7 | 1.3 | 0.8 | 23 |
| 24 | 4.4 | 4.6 | 5.4 | 13 | 6.9 | 15 | 19 | 8.9 | 4.6 | 2.6 | 1.2 | 0.8 | 24 |
| 25 | 3.0 | 4.4 | 5.2 | 12 | 7.0 | 17 | 17 | 8.5 | 4.5 | 2.7 | 1.2 | 0.7 | 25 |
| 26 | 2.6 | 4.5 | 5.2 | 11 | 7.0 | 16 | 17 | 8.2 | 4.4 | 2.6 | 1.1 | 0.8 | 26 |
| 27 | 2.4 | 4.1 | 23 | 11 | 7.0 | 22 | 17 | 8.0 | 4.3 | 2.4 | 1.1 | 0.9 | 27 |
| 28 | 2.1 | 4.0 | 23 | 10 | 6.9 | 38 | 17 | 7.7 | 4.2 | 2.4 | 1.2 | 0.9 | 28 |
| 29 | 2.0 | 3.8 | 16 | 9.7 | | 30 | 17 | 7.7 | 3.9 | 2.3 | 1.1 | 0.9 | 29 |
| 20 | 2.1 | 3.8 | 14 | 9.4 | | 35 | 16 | 7.7 | 3.8 | 2.4 | 1.1 | 0.9 | 30 |
| 31 | 2.1 | | 11 | 9.1 | | 26 | | 7.5 | | 2.3 | 1.0 | | 31 |
| MEAN | 2.2 | 6.4 | 7.7 | 14.3 | 7.6 | 25.9 | 25.8 | 10.3 | 5.6 | 3.2 | 1.6 | 0.9 | MEAN |
| MAX. | 11 | 30 | 23 | 56 | 9.2 | 96 | 103 | 15 | 7.4 | 4.4 | 2.3 | 1.0 | MAX. |
| MIN. | 0.8 | 2.0 | 4.3 | 6.2 | 6.8 | 15 | 15 | 7.5 | 3.8 | 2.3 | 1.0 | 0.7 | MIN. |
| AC. FT. | 135 | 380 | 475 | 878 | 419 | 1591 | 1535 | 630 | 331 | 195 | 96 | 53 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.3 | 324 | 6.43 | 4 | 1 | 2200 | 0.5 | 2.50 | 9 | 25 | 1230 | 6718 |

| 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 38 | 119 39 10 | SE22 6S 21E | 804 | 9.08 | 2-1-63 | OEC 59-DATE | | 1959 | | 0.00 | LOCAL |

Station located 150 feet downstream from 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. Altitude of gage is approximately 3,500 feet (from topographic map).

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B67285 | MIAMI CREEK AT HIGHWAY 49 NEAR AHWAHNEE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 | 2.4 | 63 | 22 | 17 | 294 | 455 | 27 | 7.9 | 2.0 | 0.3 | | 1 |
| 2 | 0.0 | 2.2 | 20 | 17 | 17 | 340 | 558 | 25 | 9.0 | 1.5 | 0.2 | | 2 |
| 3 | 0.0 | 1.9 | 8.5 | 14 * | 17 | 136 | 219 | 22 | 9.1 | 1.5 | 0.2 | | 3 |
| 4 | 0.0 | 1.8 | 6.0 | 17 | 17 | 74 * | 115 | 20 | 8.5 | 1.2 | 0.2 | | 4 |
| 5 | 0.0 | 1.7 * | 11 | 19 | 17 * | 53 | 83 | 20 | 8.1 | 1.7 * | 0.3 | | 5 |
| 6 | 0.0 | 2.9 | 9.2 * | 25 | 15 | 54 | 65 | 18 | 8.1 | 1.3 | 0.2 | | 6 |
| 7 | 0.0 | 5.0 | 8.6 | 40 | 13 | 62 | 55 | 15 | 8.2 * | 0.9 | 0.1 * | | 7 |
| 8 | 0.0 | 5.7 | 8.3 | 34 * | 11 | 77 | 50 * | 14 | 8.1 | 0.9 | 0.0 | | 8 |
| 9 | 0.0 | 7.5 | 8.3 | 27 | 9.7 | 54 | 68 | 13 | 7.6 | 1.5 | 0.0 | | 9 |
| 10 | 0.0 | 11 | 8.7 | 23 | 8.6 | 46 | 57 | 13 | 6.4 | 1.9 | 0.0 | | 10 |
| 11 | 0.0 | 16 | 9.5 | 20 | 8.9 | 41 | 52 | 13 | 5.9 | 1.7 | 0.0 | | 11 |
| 12 | 0.0 | 30 * | 12 | 28 | 10 | 43 | 49 | 14 | 5.8 | 1.5 | 0.0 | | 12 |
| 13 | 0.3 | 13 | 12 | 30 | 13 | 42 | 46 | 13 | 6.0 | 0.8 | 0.1 | | 13 |
| 14 | 0.7 | 29 | 13 | 26 | 11 | 40 | 45 | 14 | 5.8 | 0.7 | 0.1 | N | 14 |
| 15 | 0.4 | 47 | 10 | 30 | 9.3 | 41 | 43 | 15 * | 5.5 | 1.0 | 0.0 | O | 15 |
| 16 | 0.8 | 82 | 8.4 | 53 | 8.2 | 37 | 42 * | 15 | 5.1 | 1.4 | 0.0 | | 16 |
| 17 | 1.3 | 137 | 7.7 | 104 * | 7.4 | 33 | 40 | 15 | 5.2 * | 1.0 | 0.0 | F | 17 |
| 18 | 1.4 * | 109 | 7.1 * | 49 | 7.0 | 31 | 39 | 16 | 5.7 | 0.6 | 0.0 | L | 18 |
| 19 | 1.6 | 16 * | 7.0 | 31 | 9.2 | 34 * | 42 | 16 | 5.7 | 0.5 | 0.0 | O | 19 |
| 20 | 2.5 | 13 | 7.4 | 51 | 7.8 | 35 | 42 | 16 | 5.7 | 0.3 | 0.0 | W | 20 |
| 21 | 3.0 | 29 | 9.1 | 28 | 11 * | 35 | 39 | 16 | 5.3 | 0.3 | 0.0 | | 21 |
| 22 | 4.0 | 32 | 14 | 15 | 19 | 35 | 36 | 15 | 3.5 | 0.5 | 0.0 | | 22 |
| 23 | 6.3 | 34 | 13 | 11 | 28 | 35 | 36 | 15 | 2.9 | 0.6 | 0.0 | | 23 |
| 24 | 0.4 | 36 | 12 | 8.9 | 35 | 36 | 51 | 14 | 2.8 | 0.5 | 0.0 | | 24 |
| 25 | 2.2 | 40 | 13 | 8.0 | 46 | 38 | 42 | 16 | 2.8 | 0.8 | 0.0 | | 25 |
| 26 | 2.7 | 37 | 15 | 8.1 | 58 | 40 | 38 | 14 | 3.0 | 0.7 | 0.0 | | 26 |
| 27 | 2.4 | 32 | 44 * | 8.9 | 73 | 54 | 37 | 11 | 3.0 | 0.5 | 0.0 | | 27 |
| 28 | 2.3 | 27 | 44 | 12 | 95 | 171 | 36 | 9.0 | 2.8 | 0.4 | 0.0 | | 28 |
| 29 | 2.1 | 24 | 28 | 15 | | 121 | 33 | 9.2 | 2.5 | 0.6 | 0.0 | | 29 |
| 30 | 2.0 | 20 | 26 | 19 | | 140 | 30 * | 9.2 | 2.4 | 0.1 | 0.0 | | 30 |
| 31 | 2.3 | | 19 | 17 | | 118 | | 8.7 | | 0.2 | 0.0 | | 31 |
| MEAN | 1.3 | 28.2 | 15.6 | 26.2 | 21.4 | 77.1 | 84.8 | 15.2 | 5.6 | 0.9 | 0.1 | | MEAN |
| MAX. | 6.3 | 137 | 63 | 104 | 95 | 340 | 558 | 27 | 9.1 | 2.0 | 0.3 | | MAX. |
| MIN. | 0.0 | 1.7 | 6.0 | 8.0 | 7.0 | 31 | 30 | 8.7 | 2.4 | 0.1 | 0.0 | | MIN. |
| AC. FT. | 77 | 1676 | 958 | 1608 | 1188 | 4740 | 5044 | 934 | 334 | 58 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.0 | 1020 | 8.38 | 4 | 1 | 2230 | 0 | 0.62 | 10 | 1 | 0000 | 16620 |

| 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 50 | 119 43 00 | SW 6 7S 21E | 913E | 8.24 | 1-16-70 | OCT 69-DATE | | 1969 | | 0.00 | LOCAL |

Station located 4.0 miles west of Oakhurst on State Highway 49. Recorder installed on the downstream side of bridge. Tributary to Fresno River. Drainage area 31.6 square miles. Recorder installed 10-15-69. Altitude of gage is approximately 2030 feet (from topographic map).

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B06725 | FRESNO RIVER EIGHT MILES WEST OF MADERA |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.0 | 0.0 | 70 | 237 | 0.0 | 132 | 0.0 | 0.0 | | | | 1 |
| 2 | | 0.0 | 0.0 | 87 | 83 | 43 | 3115 | 0.0 | 0.0 | | | | 2 |
| 2 | | 0.0 | 85 | 76 | 70 | 798 | 1500 | 0.0 | 0.0 | | | | 3 |
| 4 | | 0.0 | 46 | 71 | 60 | 962 | 516 | 0.0 | 8.0 | | | | 4 |
| 5 | | 0.0 | 39 | 68 | 57 | 383 | 383 | 0.0 | 23 | | | | 5 |
| 6 | | 0.0 | 30 | 87 | 41 | 213 | 290 | 0.0 | 16 | | | | 6 |
| 7 | | 0.0 | 27 | 164 | 32 | 177 | 225 | 0.0 | 23 | | | | 7 |
| 8 | | 0.0 | 23 | 383 | 39 | 188 | 183 | 0.0 | 40 | | | | 8 |
| 9 | | 0.0 | 19 | 290 | 38 | 299 | 158 | 0.0 | 71 | | | | 9 |
| 10 | | 0.0 | 15 | 183 | 38 | 169 | 183 | 0.0 | 66 | | | | 10 |
| 11 | | 0.0 | 15 | 145 | 53 | 135 | 177 | 0.0 | 49 | | | | 11 |
| 12 | | 0.0 | 14 | 130 | 53 | 117 | 138 | 0.0 | 2.0 | | | | 12 |
| 13 | | 0.0 | 14 | 130 | 58 | 115 | 115 | 0.0 | 0.0 | | | | 13 |
| 14 | | 0.0 | 12 | 138 | 45 | 95 | 105 | 0.0 | 0.0 | | | | 14 |
| 15 | N O | 0.0 | 12 | 111 | 30 | 80 | 89 | 0.0 | 0.0 | N O | N O | N O | 15 |
| 16 | | 0.0 | 18 | 83 | 9.6 | 30 | 68 | 0.0 | 0.0 | | | | 16 |
| 17 | | 0.0 | 17 | 345 | 4.0 | 47 | 51 | 0.0 | 0.0 | | | | 17 |
| 18 | F | 16 | 14 | 830 | 3.3 | 42 | 54 | 0.0 | 0.0 | F | F | F | 18 |
| 19 | L | 36 | 11 | 605 | 2.6 | 32 | 41 | 0.0 | 0.0 | L | L | L | 19 |
| 20 | O W | 111 | 11 | 642 | 2.1 | 12 | 30 | 39 | 0.0 | O W | O W | O W | 20 |
| 21 | | 41 | 3.0 | 750 | 1.3 | 3.8 | 8.0 | 36 | 0.0 | | | | 21 |
| 22 | | 29 | 0.0 | 746 | 1.0 | 0.6 | 12 | 26 | 0.0 | | | | 22 |
| 23 | | 24 | 0.0 | 598 | 0.7 | 0.0 | 0.0 | 32 | 0.0 | | | | 23 |
| 24 | | 4.0 | 0.0 | 522 | 0.0 | 0.0 | 0.0 | 13 | 0.0 | | | | 24 |
| 25 | | 0.0 | 0.0 | 498 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 25 |
| 26 | | 0.0 | 0.0 | 480 | 0.0 | 0.0 | 19 | 0.0 | 0.0 | | | | 26 |
| 27 | | 0.0 | 0.0 | 455 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 27 |
| 28 | | 0.0 | 12 | 435 | 0.0 | 18 | 0.0 | 0.0 | 0.0 | | | | 28 |
| 29 | | 0.0 | 158 | 450 | | 177 | 0.0 | 0.0 | 0.0 | | | | 29 |
| 30 | | 0.0 | 95 | 430 | | 132 | 0.0 | 0.0 | 0.0 | | | | 30 |
| 31 | | | 82 | 312 | | 109 | | 0.0 | | | | | 31 |
| MEAN | | 8.7 | 24.9 | 333 | 34.1 | 141 | 253 | 4.7 | 9.9 | | | | MEAN |
| MAX. | | 111 | 158 | 830 | 237 | 962 | 3115 | 39 | 71 | | | | MAX. |
| MIN. | | 0.0 | 0.0 | 68 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | MIN. |
| AC. FT. | | 517 | 1531 | 20460 | 1894 | 8682 | 15060 | 289 | 591 | | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 677 | 6460 | 8.57 | 4 | 2 | 1400 | 0 | | 10 | 1 | | 49020 |

| 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 58 30 | 120 12 12 | NE15 11S 16E | | | | 1936-SEP 40<br>OCT 41-SEP 42<br>JUL 44-DATE | | 1936 | | 0.00 | LOCAL |

Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder. Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation District.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B64300 | WEST FORK CHOWCHILLA NEAR MARIPOSA |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.1 * | 83 | 19 | 12 | 156 | 643 * | 16 | 3.8 | 0.3 * | | |
| 2 | | 0.1 | 23 | 12 | 11 | 311 | 289 | 15 | 3.6 | 0.3 | | |
| 3 | | 0.1 | 8.8 | 9.0 | 10 | 208 | 117 | 15 | 3.4 | 0.3 | | |
| 4 | | 0.1 | 6.0 | 10 | 9.9 * | 96 * | 86 | 15 | 2.8 | 0.2 | | |
| 5 | | 0.2 | 4.9 * | 13 | 9.7 | 67 | 71 | 15 | 2.6 | 0.2 | | |
| 6 | | 0.2 | 4.1 | 44 | 9.3 | 57 | 61 | 14 | 2.4 | 0.1 | | |
| 7 | | 0.2 | 3.4 | 81 | 8.1 | 68 | 54 | 13 | 2.3 | 0.1 | | |
| 8 | | 0.2 | 3.1 | 48 * | 7.9 | 115 | 50 | 12 | 2.1 | 0.1 | | |
| 9 | | 0.2 | 3.0 | 32 | 7.8 | 63 | 60 | 11 | 2.0 | 0.5 | | |
| 10 | | 0.3 | 2.6 | 26 | 7.6 | 52 | 52 | 10 | 1.8 | 1.4 | | |
| 11 | | 0.6 | 2.7 | 21 | 7.7 | 45 | 44 | 10 | 1.6 * | 1.0 | | |
| 12 | | 8.8 | 2.7 | 37 | 8.5 | 42 | 39 | 9.3 | 1.5 | 0.8 | | |
| 13 | N | 3.9 | 3.2 | 32 | 12 | 37 | 36 | 9.0 | 1.4 | 0.6 | N | N |
| 14 | O | 5.4 | 3.9 | 25 | 9.4 | 34 | 32 | 8.8 | 1.3 | 0.4 | O | O |
| 15 | | 2.9 | 2.8 | 21 | 8.1 | 32 | 29 | 8.5 | 1.3 | 0.3 | | |
| 16 | F | 2.1 | 2.5 | 34 | 7.6 | 29 | 27 * | 8.4 | 1.2 | 0.2 | F | F |
| 17 | L | 20 | 2.5 | 62 * | 7.2 | 27 | 25 | 8.1 | 1.3 | 0.2 * | L | L |
| 18 | O | 36 | 2.5 | 46 | 6.9 | 26 * | 25 | 8.0 | 1.3 | 0.1 | O | O |
| 19 | W | 6.2 | 2.3 | 37 | 13 | 22 | 24 | 8.2 | 1.2 | 0.1 | W | W |
| 20 | | 3.8 | 2.2 | 39 | 11 | 21 | 24 | 8.0 | 1.3 | 0.1 | | |
| 21 | | 3.2 | 2.6 | 36 | 7.7 | 20 | 22 | 7.2 | 1.2 | 0.0 | | |
| 22 | | 2.6 | 11 | 26 | 6.8 | 19 | 21 | 6.9 | 1.0 | 0.0 | | |
| 23 | | 2.2 | 6.1 | 21 | 6.3 | 19 | 21 | 6.3 | 0.9 | 0.0 | | |
| 24 | | 2.2 | 4.3 | 20 | 6.1 | 18 | 33 | 6.0 | 0.8 | 0.0 | | |
| 25 | | 2.2 | 3.7 | 17 | 5.8 | 18 | 27 | 5.8 | 0.7 | 0.0 | | |
| 26 | | 2.2 | 3.6 | 16 | 5.5 | 18 | 22 | 5.7 | 0.6 | 0.0 | | |
| 27 | | 1.9 | 62 * | 15 | 5.5 | 26 | 23 | 4.9 | 0.6 | 0.0 | | |
| 28 | | 1.8 | 41 | 14 | 5.9 | 77 | 19 | 4.3 | 0.5 | 0.0 | | |
| 29 | | 1.7 | 18 | 13 | | 44 | 18 | 4.0 | 0.4 | 0.0 | | |
| 30 | | 1.7 | 15 | 12 | | 54 | 17 * | 4.0 | 0.3 | 0.0 | | |
| 31 | | | 11 | 12 | | 44 | | 4.1 | | 0.0 | | |
| MEAN | | 3.8 | 11.2 | 27.4 | 8.4 | 60.2 | 67.0 | 9.1 | 1.6 | 0.2 | | |
| MAX. | | 36 | 83 | 81 | 13 | 311 | 643 | 16 | 3.8 | 1.4 | | |
| MIN. | | 0.1 | 2.2 | 9.0 | 5.5 | 18 | 17 | 4.0 | 0.3 | 0.0 | | |
| AC. FT. | | 224 | 689 | 1686 | 465 | 3699 | 3989 | 558 | 94 | 14 | | |

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 |
| 158 | 2150 | 7.59 | 4 | 1 | 2045 | 0.0 | 1.34 | 10 | 1 | 0000 | 11420 |

| 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 14 | 119 52 25 | SE10 6S 19E | 4350E | 8.93 | 1-25-69 | NOV 57-DATE | | 1957 | | 0.00 | LOCAL |

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map). There are no upstream impairments.

## TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B00435 | EASTSIDE BYPASS NEAR EL NIDO |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * | | 0.0 | 5.1 | 779 | 0.3 | 112 | 92 | | * | | | 1 |
| 2 | | | 0.0 | 19 * | 760 | 0.2 | 628 | 47 | | | | | 2 |
| 3 | | | 0.0 * | 32 | 276 | 2.6 | 2584 * | 33 | | | | * | 3 |
| 4 | | | 0.0 | 48 | 130 | 1323 * | 1465 | 34 | | | | | 4 |
| 5 | | | 0.0 | 35 | 184 | 1224 | 808 | 36 | * | | | | 5 |
| 6 | | | 0.0 | 30 | 126 | 583 | 450 | 42 | | | * | | 6 |
| 7 | | | 0.0 | 39 | 74 | 261 * | 320 | 25 | | | | | 7 |
| 8 | | * | 0.0 | 264 | 57 * | 206 | 317 | 12 | | | | | 8 |
| 9 | | | 0.0 | 561 * | 29 | 298 | 294 | 2.8 | | | | | 9 |
| 10 | | | 0.0 | 367 * | 17 | 427 | 269 | 0.0 | | | | | 10 |
| 11 | | | 0.0 | 229 | 14 | 225 | 320 | 0.0 | | | | | 11 |
| 12 | | | 0.0 | 174 | 8.2 | 153 | 304 | 0.0 | | | | | 12 |
| 12 | N | N | 0.0 | 138 | 3.8 | 91 | 218 | 0.0 | N | N | N | N | 13 |
| 14 | O | O | 0.0 | 186 * | 1.8 | 66 * | 160 | 0.0 | O | O | O | O | 14 |
| 15 | | | 0.0 | 182 | 0.5 * | 44 | 331 * | 0.0 * | | | | | 15 |
| 16 | F | F | 0.0 | 118 | 0.4 | 24 | 339 | 0.0 | F | F | F | F | 16 |
| 17 | L | L | 0.0 * | 70 | 0.4 | 9.4 | 278 | 0.0 | L | L | L | L | 17 |
| 18 | O | O | 0.0 | 569 | 0.4 | 4.5 | 162 | 0.0 | O | O | O | O | 18 |
| 19 | W | W * | 0.0 | 1088 | 0.3 | 3.8 | 114 | 0.0 | W | W | W | W | 19 |
| 20 | | | 117 | 882 | 0.3 | 2.4 | 92 | 0.0 | | | | | 20 |
| 21 | | | 389 | 1020 * | 0.3 | 2.0 E | 75 | 0.0 | | | | | 21 |
| 22 | | | 371 | 1246 | 0.3 | 1.7 E | 83 | 0.0 | | | | | 22 |
| 23 | | | 245 | 1233 | 0.3 | 1.5 E | 67 | 0.0 | | | | | 23 |
| 24 | | | 143 | 1246 | 0.3 | 1.4 E | 50 | 0.0 | | | | | 24 |
| 25 | | | 77 | 1124 | 0.3 | 1.3 E | 24 | 0.0 | | | | | 25 |
| 26 | | | 45 | 1043 | 0.3 | 1.4 E | 34 | 0.0 | | | | | 26 |
| 27 | | * | 34 | 993 | 0.3 | 2.2 E | 89 | 0.0 | | | | | 27 |
| 28 | | | 22 | 944 | 0.3 | 2.2 E | 104 | 0.0 | | | | | 28 |
| 29 | | | 15 | 918 | | 2.0 E | 150 | 0.0 | | | | | 29 |
| 30 | | | 9.7 | 955 | | 3.9 E | 150 * | 0.0 | | | | | 30 |
| 31 | | | 7.4 | 960 * | | 150 | | 0.0 | | | | | 31 |
| MEAN | | | 47.6 | 539 | 88.0 | 165 | 346 | 10.4 | | | | | MEAN |
| MAX. | | | 389 | 1246 | 779 | 1323 | 2584 | 92 | | | | | MAX. |
| MIN. | | | 0.0 | 5.1 | 0.3 | 0.2 | 24 | 0.0 | | | | | MIN. |
| AC. FT. | | | 2926 | 33160 | 4888 | 10150 | 20610 | 642 | | | | | 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 |
| 100 | 3228 | 14.23 | 4 | 3 | 0300 | 0.0 | | 10 | 1 | | 7238 |

| 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 | 21700 | 17.58 | 2-25-69 | DEC 64-DATE | | 1964 | | 90.00 | USGS |

Station located on left bank 2.8 miles below Washington Road and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B62400 | MARIPOSA CREEK NEAR CATHEYS VALLEY |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * | 2.2 | 147 | 88 | 23 | 184 | 1360 * | 17 | 3.2 | 0.2 * | | |
| 2 | | 3.3 | 54 | 53 | 22 | 683 | 659 | 16 | 3.0 | 0.2 | * | |
| 3 | | 3.5 | 23 | 36 | 20 | 538 | 220 | 15 | 2.8 | 0.1 | | * |
| 4 | | 3.8 | 16 | 40 | 19 * | 249 * | 141 | 15 | 2.6 | 0.1 | | |
| 5 | | 4.2 | 13 * | 61 | 18 | 145 | 105 | 14 | 2.3 | 0.1 | | |
| 6 | | 4.6 | 11 | 215 | 18 | 102 | 83 | 14 | 2.2 | 0.1 | | |
| 7 | | 5.2 | 10 | 310 | 17 | 105 | 69 | 13 | 2.0 | 0.1 | | |
| 8 | | 5.2 | 9.7 | 156 * | 16 | 254 | 62 | 12 | 1.7 | 0.0 | | |
| 9 | | 5.1 | 9.4 | 89 | 15 | 131 | 84 | 11 | 1.5 | 0.1 | | |
| 10 | | 5.6 | 9.2 | 60 | 15 | 98 | 67 | 9.9 | 1.4 | 0.1 | | |
| 11 | | 7.0 | 9.3 | 47 | 15 | 79 | 53 | 9.7 | 1.2 * | 0.3 | | |
| 12 | | 26 * | 9.4 | 80 | 16 | 68 | 48 | 9.2 | 1.1 | 0.6 | | |
| 13 | N | 13 | 11 | 66 | 26 | 57 | 43 | 8.7 | 0.9 | 0.5 | N | N |
| 14 | O | 16 | 13 | 47 | 18 | 50 | 39 | 8.5 | 0.9 | 0.5 | O | O |
| 15 | | 11 | 11 | 39 | 16 | 44 | 36 | 7.9 | 0.9 | 0.4 | | |
| 16 | F | 8.7 | 11 | 45 | 16 | 40 | 34 * | 7.7 | 0.9 | 0.3 | F | F |
| 17 | L | 60 | 11 | 95 * | 15 | 36 | 31 | 7.5 | 0.9 | 0.3 * | L | L |
| 18 | O * | 126 | 11 | 92 | 14 | 33 * | 29 | 7.5 | 0.9 | 0.2 | O | O |
| 19 | W | 25 | 11 | 83 | 23 | 30 | 28 | 7.6 | 0.9 | 0.2 | W | W |
| 20 | | 14 | 11 | 84 | 23 | 28 | 27 | 7.6 | 0.9 | 0.1 | | |
| 21 | | 11 | 11 | 85 | 18 | 26 | 24 | 7.1 | 1.0 | 0.1 | | |
| 22 | | 9.4 | 31 | 65 | 16 | 24 | 23 | 6.6 | 0.8 | 0.1 | | |
| 23 | | 8.3 | 26 | 55 | 15 | 23 | 23 | 6.1 | 0.6 | 0.0 | | |
| 24 | | 8.0 | 20 | 47 | 14 | 21 | 38 | 5.6 | 0.5 | 0.0 | | |
| 25 | | 8.0 | 18 | 41 | 14 | 20 | 36 | 5.2 | 0.4 | 0.0 | | |
| 26 | | 8.2 | 17 | 36 | 13 | 20 | 25 | 4.8 | 0.3 | 0.0 | | |
| 27 | | 7.7 | 381 * | 32 | 13 | 24 | 22 | 4.3 | 0.3 | 0.0 | | |
| 28 | | 7.3 | 180 | 29 | 13 | 99 | 21 | 3.7 | 0.3 | 0.0 | | |
| 29 | | 7.1 | 74 | 27 | | 63 | 19 | 3.5 | 0.3 | 0.0 | | |
| 30 | | 7.2 | 55 | 25 | | 80 | 18 * | 3.6 | 0.2 | 0.0 | | |
| 31 | | | 39 | 23 | | 64 | | 3.4 | | 0.0 | | |
| MEAN | | 14.4 | 40.7 | 72.6 | 17.2 | 110 | 116 | 8.8 | 1.2 | 0.2 | | |
| MAX. | | 126 | 381 | 310 | 26 | 683 | 1360 | 17 | 3.2 | 0.6 | | |
| MIN. | | 2.2 | 9.2 | 23 | 13 | 20 | 18 | 3.4 | 0.2 | 0.0 | | |
| AC. FT. | | 856 | 2505 | 4465 | 954 | 6780 | 6877 | 541 | 73 | 9 | | |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 31.9 | 3930 | 9.97 | 4 | 1 | 2030 | 0.0 | 1.92 | 10 | 1 | 0015 | 23060 |

| LOCATION | | | MAXIMUM DISCHARGE | | | PERIOD OF RECORD | | DATUM OF GAGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LATITUDE | LONGITUDE | 1/4 SEC. T. & R. M.D.B.&M. | DF RECORD CFS | DF RECORD GAGE HT. | DF RECORD DATE | DISCHARGE | GAGE HEIGHT ONLY | PERIOD FROM | PERIOD TO | ZERO ON GAGE | REF. DATUM |
| 37 23 55 | 120 00 10 | NE21 6S 18E | 7460E | 11.63 | 2-24-69 | 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 65.7 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B62100 | MARIPOSA CREEK BELOW MARIPOSA RESERVOIR |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.0 | 26 | 52 | 20 | 22 | 177 | 26 | 4.0 | | | | 1 |
| 2 | | 0.0 | 112 | 68 | 20 | 398 | 891 | 25 | 3.8 | | | | 2 |
| 2 | | 0.0 | 36 | 41 | 18 | 579 | 881 | 24 | 3.7 | | | | 3 |
| 4 | | 0.0 | 18 | 44 | 17 | 579 | 795 | 23 | 3.5 | | | | 4 |
| 5 | | 0.0 | 13 | 58 | 17 | 410 | 753 | 22 | 3.3 | | | | 5 |
| 6 | | 0.0 | 10 | 124 | 16 | 210 | 470 | 22 | 3.1 | | | | 6 |
| 7 | | 0.0 | 8.8 | 338 | 16 | 116 | 193 | 21 | 2.8 | | | | 7 |
| 8 | | 0.0 | 7.6 | 360 | 15 | 230 | 98 | 21 | 2.6 | | | | 8 |
| 9 | | 0.0 | 7.0 | 221 | 15 | 252 | 84 | 19 | 2.5 | | | | 9 |
| 10 | | 0.0 | 6.6 | 113 | 14 | 158 | 119 | 18 | 2.5 | | | | 10 |
| 11 | | 0.0 | 6.2 | 76 | 14 | 110 | 82 | 17 | 2.2 | | | | 11 |
| 12 | | 0.0 | 6.0 | 65 | 14 | 90 | 72 | 16 | 2.1 | | | | 12 |
| 13 | N | 0.0 | 5.8 | 96 | 18 | 72 | 52 | 15 | 2.0 | N | N | N | 13 |
| 14 | O | 0.0 | 6.0 | 68 | 23 | 56 | 46 | 15 | 2.0 | O | O | O | 14 |
| 15 | | 0.0 | 6.8 | 47 | 17 | 47 | 42 | 14 | 1.9 | | | | 15 |
| 16 | F | 0.0 | 7.2 | 39 | 15 | 43 | 38 | 14 | 1.9 | F | F | F | 16 |
| 17 | L | 0.0 | 6.4 | 49 | 14 | 39 | 36 | 12 | 1.8 | L | L | L | 17 |
| 18 | O | 12.3 | 6.2 | 104 | 14 | 35 | 33 | 12 | 1.7 | O | O | O | 18 |
| 19 | W | 35 | 6.0 | 100 | 14 | 33 | 32 | 12 | 1.6 | W | W | W | 19 |
| 20 | | 16 | 6.0 | 84 | 18 | 30 | 31 | 12 | 1.3 | | | | 20 |
| 21 | | 10 | 5.8 | 98 | 21 | 28 | 30 | 11 | 1.2 | | | | 21 |
| 22 | | 7.6 | 6.4 | 84 | 17 | 26 | 28 | 11 | 0.4 | | | | 22 |
| 23 | | 6.4 | 13 | 62 | 15 | 25 | 27 | 10 | 0.0 | | | | 22 |
| 24 | | 5.6 | 14 | 49 | 14 | 24 | 30 | 8.8 | 0.0 | | | | 24 |
| 25 | | 5.0 | 12 | 43 | 14 | 23 | 45 | 7.8 | 0.0 | | | | 25 |
| 26 | | 4.8 | 10 | 37 | 13 | 22 | 40 | 7.0 | 0.0 | | | | 26 |
| 27 | | 5.2 | 150 | 32 | 13 | 22 | 31 | 6.6 | 0.0 | | | | 27 |
| 28 | | 5.6 | 294 | 28 | 12 | 50 | 28 | 5.8 | 0.0 | | | | 28 |
| 29 | | 5.0 | 134 | 25 | | 112 | 27 | 5.2 | 0.0 | | | | 29 |
| 30 | | 4.6 | 54 | 24 | | 72 | 26 | 4.8 | 0.0 | | | | 30 |
| 31 | | | 38 | 21 | | 96 | | 4.6 | | | | | 31 |
| MEAN | | 4.1 | 33.5 | 85.5 | 16 | 129 | 175 | 14.3 | 1.7 | | | | MEAN |
| MAX. | | 35 | 294 | 360 | 23 | 579 | 891 | 26 | 4.0 | | | | MAX. |
| MIN. | | 0.0 | 5.8 | 21 | 12 | 22 | 26 | 4.6 | 0.0 | | | | MIN. |
| AC. FT. | | 244 | 2060 | 5256 | 889 | 7952 | 10388 | 878 | 103 | | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 38.3 | 909 | | 4 | 2 | | 0.0 | | | | | 27770 |

| 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 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 downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B06170 | OWENS CREEK BELOW OWENS RESERVOIR |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.0 | 2.0 | 5.0 | 14 | 3.6 | NR | 23 | 3.0 | 1.0 | 0.3 | | | 1 |
| 2 | 1.0 | 2.0 | 6.6 | 7.8 | 3.6 | NR | 89 | 3.0 | 0.5 | 0.2 | | | 2 |
| 3 | 1.0 | 2.0 | 3.0 | 4.8 | 3.3 | NR | 83 * | 3.0 | 1.0 | 0.2 | | | 3 |
| 4 | 1.0 | 2.0 | 3.0 | 9.4 | 3.3 | NR | 70 | 3.0 | 0.5 | 0.1 | | | 4 |
| 5 | 1.0 | 2.0 | 2.0 | 11 | 3.0 | NR | 42 | 3.0 | 0.5 | 0 | | | 5 |
| 6 | 1.0 | 2.0 | 2.0 | 26 | 3.0 | NR | 13 | 3.0 | 0.4 | 0 | | | 6 |
| 7 | 2.0 | 2.0 | 2.0 | 53 | 3.0 | 11 | 11 | 3.0 | 0.5 | 0 | | | 7 |
| 8 | 2.0 | 2.0 | 2.0 | 39 | 3.0 | 45 | 10 | 2.0 | 0.5 | 0 | | | 8 |
| 9 | 1.0 | 2.0 | 2.0 | 14 | 3.0 | 22 | 15 | 2.0 | 0.5 | 0 | | | 9 |
| 10 | 1.0 | 2.0 | 2.0 | 10 | 3.0 | 14 | 19 | 2.0 | 0.5 | 0.5 | | | 10 |
| 11 | 1.0 | 2.0 | 2.0 | 8.4 | 3.0 | 11 | 10 | 2.0 | 0.5 | 0.5 | | | 11 |
| 12 | 1.0 | 3.0 | 2.0 | 9.9 | 3.7 | 10 | 9.3 | 2.0 | 0.4 | 0.3 | | | 12 |
| 13 | 1.0 | 2.0 | 2.0 | 9.0 | 7.9 | 9.0 | 8.4 | 2.0 | 0.4 | 0.2 | N | N | 13 |
| 14 | 1.0 | 3.0 | 2.0 | 7.2 | 4.8 | 8.1 | 7.5 | 2.0 | 0.4 | 0.1 | O | O | 14 |
| 15 | 1.0 | 2.0 | 2.0 | 6.3 | 3.3 | 7.5 | 7.2 | 2.0 | 0.5 | 0 | | | 15 |
| 16 | 1.0 | 3.0 | 2.0 | 6.0 | 3.0 | 6.9 | 6.6 | 2.0 | 0.4 | 0 | F | F | 16 |
| 17 | 1.0 | 3.6 | 2.0 | 6.6 | 3.0 | 6.6 | 6.3 | 2.0 | 0.5 | 0 | L | L | 17 |
| 18 | 1.0 | 8.9 | 2.0 | 7.2 | 3.0 | 6.0 | 5.7 | 2.0 | 0.5 | 0 | O | O | 18 |
| 19 | 1.0 | 3.3 | 2.0 | 7.8 | 3.3 | 5.4 | 5.7 | 2.0 | 0.5 | 0 | W | W | 19 |
| 20 | 1.0 | 2.0 | 2.0 | 7.2 | 4.5 | 5.1 | 5.4 | 2.0 | 0.5 | 0 | | | 20 |
| 21 | 1.0 | 2.0 | 2.0 | 7.5 | 3.0 | 4.5 | 4.8 | 2.0 | 0.5 | 0 | | | 21 |
| 22 | 1.0 | 2.0 | 3.0 | 6.6 | 3.0 | 4.2 | 4.2 | 2.0 | 0.5 | 0 | | | 22 |
| 23 | 2.0 | 2.0 | 3.0 | 6.0 | 3.0 | 4.2 | 3.9 | 2.0 | 0.5 | 0 | | | 23 |
| 24 | 2.0 | 2.0 | 2.0 | 5.7 | 3.0 | 3.9 | 6.3 | 2.0 | 0.3 | 0 | | | 24 |
| 25 | 1.0 | 2.0 | 2.0 | 5.1 | 3.0 | 3.9 | 6.9 | 2.0 | 0.1 | 0 | | | 25 |
| 26 | 1.0 | 2.0 | 4.0 | 4.8 | 3.0 | 3.6 | 4.8 | 2.0 | 0 | 0 | | | 26 |
| 27 | 1.0 | 2.0 | 43 | 4.5 | NR | 3.9 | 4.2 | 1.0 | 0 | 0 | | | 27 |
| 28 | 1.0 | 1.0 | 23 | 4.5 | NR | 14 | 3.9 | 1.0 | 0 | 0 | | | 28 |
| 29 | 1.0 | 2.0 | 8.1 | 4.2 | | 8.4 | 3.6 | 1.0 | 0 | 0 | | | 29 |
| 30 | 2.0 | 2.0 | 5.1 | 4.2 | | 7.7 | 3.0 | 1.0 | 0 | 0 | | | 30 |
| 31 | 2.0 | | 4.2 | 3.6 | | 7.8 | | 1.0 | | 0 | | | 31 |
| MEAN | 1.2 | 2.4 | 4.8 | 10.4 | 3.4 E | 9.3 E | 16.4 | 2.1 | 0.4 | 0.1 | | | MEAN |
| MAX. | 2.0 | 8.9 | 43 | 53 | 7.9 | 45 | 89 | 3.0 | 1.0 | 0.5 | | | MAX. |
| MIN. | 1.0 | 1.0 | 2.0 | 3.6 | 3.0 | 3.6 | 3.0 | 1.0 | 0 | 0 | | | MIN. |
| AC. FT. | 73 | 142 | 296 | 637 | 177 E | 463 E | 977 | 127 | 25 | 5 | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.0 | 96 | | 4 | 3 | | 0 | | | | | 2923 |

| 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 downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B05570 | BEAR CREEK BELOW BEAR RESERVOIR |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.0 | 53 | 89 | 16 | 12 | NR | 28 | 1.5 | 0.0 | | | 1 |
| 2 | | 0.0 | 54 | 90 | 15 | NR | NR | 27 | 1.4 | 0.0 | | | 2 |
| 2 | | 0.0 | 40 | 56 | 14 | NR | NR | 25 | 1.3 | 0.0 | | | 3 |
| 4 | | 0.0 | 22 | 48 | 13 | NR | NR | 24 | 1.3 | 0.0 | | | 4 |
| 5 | | 0.0 | 16 | 69 | 13 | NR | NR | 23 | 1.1 | 0.0 | | | 5 |
| 6 | | 0.0 | 13 | NR | 12 | NR | NR | 21 | 1.0 | 0.0 | | | 6 |
| 7 | | 0.0 | 10 | NR | 11 | 63 | NR | 20 | 0.8 | 0.0 | | | 7 |
| 8 | | 0.0 | 8.6 | NR | 10 | NR | NR | 18 | 0.7 | 0.0 | | | 8 |
| 9 | | 0.0 | 7.8 | 108 | 9.6 | NR | NR | 16 | 0.7 | 0.0 | | | 9 |
| 10 | | 0.0 | 7.0 | 75 | 9.6 | NR | 75 | 13 | 0.6 | 0.0 | | | 10 |
| 11 | | 0.0 | 6.6 | 56 | 9.0 | NR | 52 | 12 | 0.7 | 0.0 | | | 11 |
| 12 | | 0.0 | 6.2 | 60 | 9.6 | NR | 43 | 11 | 0.8 | 0.0 | | | 12 |
| 13 | N | 0.0 | 6.2 | 74 | 15 | NR | 40 | 9 | 0.8 | 0.0 | N | N | 13 |
| 14 | O | 0.0 | 6.2 | 56 | 17 | NR | 39 | 8.2 | 1.0 | 0.0 | O | O | 14 |
| 15 | | 0.0 | 6.2 | 41 | 13 | NR | 38 | 7.4 | 1.0 | 0.0 | | | 15 |
| 16 | F | 0.0 | 6.2 | 40 | 12 | NR | 37 | 6.6 | 1.2 | 0.0 | | | 16 |
| 17 | L | 0.0 | 6.6 | 50 | 11 | NR | 35 | 6.2 | 1.1 | 0.0 | F | F | 17 |
| 18 | O | 7.8 | 6.6 | 76 | 10 | NR | 35 | 6.2 | 1.0 | 0.0 | L | L | 18 |
| 19 | W | 48 | 6.2 | 90 | 14 | NR | 34 | 6.2 | 1.1 | 0.0 | O | O | 19 |
| 20 | | 23 | 5.8 | 70 | 15 | NR | 34 | 5.4 | 1.0 | 0.0 | W | W | 20 |
| 21 | | 14 | 6.2 | 63 | 20 | NR | 33 | 5.4 | 0.8 | 0.0 | | | 21 |
| 22 | | 10 | 7.4 | 56 | 16 | NR | 33 | 5.0 | 0.6 | 0.0 | | | 22 |
| 22 | | 7.8 | 36 | 45 | 13 | NR | 33 | 4.4 | 0.7 | 0.0 | | | 23 |
| 24 | | 7.0 | 24 | 39 | 13 | NR | 38 | 4.1 | 0.6 | 0.0 | | | 24 |
| 25 | | 5.8 | 17 | 33 | 11 | NR | 59 | 3.5 | 0.5 | 0.0 | | | 25 |
| 26 | | 5.4 | 14 | 28 | 11 | NR | 45 | 2.9 | 0.5 | 0.0 | | | 26 |
| 27 | | 5.0 | NR | 24 | 11 | NR | 37 | 2.6 | 0.5 | 0.0 | | | 27 |
| 28 | | 4.7 | NR | 21 | 11 | NR | 33 | 1.8 | 0.4 | 0.0 | | | 28 |
| 29 | | 4.4 | 98 | 20 | | NR | 32 | 1.7 | 0.2 | 0.0 | | | 29 |
| 30 | | 4.1 | 70 | 18 | | NR | 30 | 1.6 | 0.2 | 0.0 | | | 30 |
| 31 | | | 48 | 17 | | NR | | 1.5 | | 0.0 | | | 31 |
| MEAN | | 4.9 | NR | NR | 12.7 | NR | NR | 23.5 | 0.9 | 0.0 | | | MEAN |
| MAX. | | 48 | 98 | NR | 20 | NR | NR | 28 | 1.5 | 0.1 | | | MAX. |
| MIN. | | 0.0 | 58 | 17 | 9.0 | NR | NR | 1.5 | 0.2 | 0.0 | | | MIN. |
| AC. FT. | | 292 | NR | NR | 704 | NR | NR | 650 | 51 | 0 | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1444 | | 4 | 2 | | 0.0 | | 10 | 1 | | Incomplete |

| 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 21 27 | 120 14 05 | NE 5 7S 16E | 4460 | | 12-24-55 | JAN 55-DATE | | 1955 | | 320.50 | USCGS |

Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B05525 | BEAR CREEK AT MCKEE ROAD NEAR MERCED |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 118 | 39 | 33 | 238 | 130 | 62 | 267 | 130 | 126 | 168 | 148 | 162 |
| 2 | 112 | 38 | 120 | 238 | 126 | 142 | 1948 | 114 | 88 | 160 | 138 | 172 |
| 3 | 79 | 37 | 134 | 238 | 124 | 695 | 1049 | 160 | 116 | 124 | 116 | 152 |
| 4 | 90 | 36 | 75 | 323 | 122 | 757 | 347 | 184 | 118 | 122 | 134 | 174 |
| 5 | 106 | 84 | 59 | 456 | 120 | 332 | 232 | 209 | 112 | 102 | 138 | 152 |
| 6 | 101 | 196 | 50 | 660 | 116 | 241 | 186 | 208 | 120 | 118 | 166 | 142 |
| 7 | 120 | 222 | 44 | 2033 | 112 | 158 | 170 | 190 | 142 | 122 | 158 | 138 |
| 8 | 162 | 240 | 41 | 1140 | 110 | 534 | 166 | 172 | 130 | 134 | 132 | 156 |
| 9 | 154 | 176 | 38 | 556 | 110 | 486 | 152 | 150 | 124 | 140 | 101 | 154 |
| 10 | 122 | 124 | 37 | 398 | 108 | 256 | 158 | 124 | 148 | 162 | 106 | 176 |
| 11 | 162 | 92 | 36 | 295 | 102 | 194 | 182 | 142 | 126 | 156 | 130 | 190 |
| 12 | 140 | 89 | 70 | 290 | 79 | 142 | 162 | 156 | 112 | 142 | 134 | 174 |
| 13 | 122 | 76 | 141 | 338 | 70 | 118 | 140 | 150 | 107 | 172 | 162 | 176 |
| 14 | 116 | 60 | 168 | 270 | 76 | 98 | 148 | 130 | 118 | 162 | 130 | 138 |
| 15 | 112 | 49 | 138 | 232 | 77 | 86 | 126 | 140 | 122 | 190 | 126 | 144 |
| 16 | 107 | 42 | 116 | 208 | 73 | 78 | 112 | 138 | 106 | 170 | 142 | 142 |
| 17 | 110 | 40 | 106 | 210 | 68 | 80 | 114 | 146 | 89 | 158 | 156 | 122 |
| 18 | 103 | 40 | 100 | 220 | 66 | 130 | 116 | 146 | 144 | 130 | 148 | 112 |
| 19 | 76 | 37 | 96 | 250 | 67 | 86 | 120 | 162 | 126 | 150 | 158 | 100 |
| 20 | 55 | 34 | 95 | 246 | 67 | 91 | 158 | 178 | 116 | 140 | 152 | 132 |
| 21 | 52 | 45 | 96 | 216 | 69 | 110 | 184 | 184 | 122 | 132 | 146 | 142 |
| 22 | 50 | 45 | 104 | 204 | 71 | 98 | 178 | 180 | 164 | 116 | 166 | 128 |
| 23 | 52 | 39 | 108 | 190 | 61 | 96 | 158 | 154 | 146 | 152 | 164 | 136 |
| 24 | 48 | 37 | 122 | 176 | 59 | 102 | 198 | 160 | 158 | 148 | 154 | 130 |
| 25 | 45 | 35 | 118 | 168 | 57 | 90 | 198 | 158 | 154 | 130 | 162 | 110 |
| 26 | 42 | 34 | 108 | 160 | 53 | 116 | 180 | 160 | 116 | 132 | 206 | 174 |
| 27 | 41 | 32 | NR | 152 | 49 | 134 | 184 | 332 | 140 | 92 | 176 | 122 |
| 28 | 40 | 31 | NR | 144 | 47 | 110 | 182 | 320 | 158 | 116 | 170 | 107 |
| 29 | 40 | 30 | NR | 140 | | 130 | 166 | 146 | 130 | 92 | 190 | 160 |
| 30 | 40 | 29 | 350 | 136 | | 178 | 160 | 132 | 152 | 120 | 156 | 140 |
| 31 | 40 | | 268 | 132 | | 295 | | 120 | | 164 | 168 | |
| MEAN | 88.9 | 70.3 | 106 E | 343 | 85.3 | 201 | 261 | 167 | 218 | 139 | 149 | 145 |
| MAX. | 162 | 240 | 350 E | 2033 | 130 | 757 | 1948 | 332 | 158 | 190 | 206 | 190 |
| MIN. | 40 | 29 | 33 E | 132 | 47 | 62 | 112 | 114 | 88 | 92 | 101 | 100 |
| AC. FT. | 5468 | 4181 | 5892E | 21118 | 4739 | 12347 | 15553 | 10264 | 7596 | 8561 | 9189 | 8642 |

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 |
| 164 E | 2592 | | 4 | 2 | | 29 | | 11 | 30 | | 113600 |

| 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 34 | 120 26 38 | SW21 7S 14E | 5,542 | 17.35 | 2-11-73 | NOV 56- DATE | | 1956 | | 75.00 | ASSUMED |

Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | 805518 | BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 106 | 24 | 28 | 317 | 110 | 14 | 361 | 98 | 52 | 78 | 130 | 101 | 1 |
| 2 | 114 | 24 | 32 | 449 | 109 | 34 | 650 | 99 | 67 | 90 | 144 | 146 | 2 |
| 3 | 101 | 23 | 97 | 494 | 106 | 370 | 747 | 65 | 88 | 47 | 120 | 134 | 3 |
| 4 | 84 | 22 | 50 | 542 | 105 | 591 | 418 | 116 | 103 | 82 | 110 | 104 | 4 |
| 5 | 112 | 22 | 36 | 592 | 101 | 358 | 224 | 182 | 100 | 88 | 111 | 94 | 5 |
| 6 | 121 | 103 | 29 | 644 | 99 | 233 | 164 | 146 | 95 | 56 | 84 | 88 | 6 |
| 7 | 248 | 150 | 27 | 698 | 95 | 139 | 115 | 142 | 88 | 61 | 48 | 86 | 7 |
| 8 | 509 | 265 | 25 | 768 | 93 | 320 | 101 | 110 | 66 | 81 | 36 | 115 | 8 |
| 9 | 318 | 138 | 23 | 705 | 91 | 566 | 80 | 112 | 67 | 144 | 42 | 115 | 9 |
| 10 | 200 | 93 | 23 | 477 | 90 | 254 | 69 | 112 | 75 | 246 | 96 | 81 | 10 |
| 11 | 176 | 66 | 22 | 345 | 90 | 122 | 94 | 78 | 65 | 256 | 124 | 83 | 11 |
| 12 | 167 | 57 | 37 | 299 | 83 | 8 | 101 | 109 | 46 | 234 | 104 | 77 | 12 |
| 13 | 129 | 54 | 79 | 348 | 74 E | 61 | 57 | 83 | 32 | 255 | 107 | 75 | 13 |
| 14 | 109 | 45 | 108 | 301 | 65 E | 68 | 63 | 58 | 59 | 209 | 115 | 46 | 14 |
| 15 | 96 | 39 | 77 | 241 | 70 | 43 | 28 | 56 | 69 | 171 | 142 | 101 | 15 |
| 16 | 84 | 35 | 60 | 209 | 67 | 36 | 0 | 89 | 88 | 141 | 135 | 124 | 16 |
| 17 | 113 | 34 | 54 | 199 | 61 | 47 | 16 | 75 | 71 | 93 | 92 | 97 | 17 |
| 18 | 100 | 44 | 51 | 204 | 56 | 90 | 37 | 58 | 74 | 64 | 72 | 79 | 18 |
| 19 | 60 | 32 | 49 | 224 | 53 | 49 | 101 | 63 | 83 | 49 | 94 | 79 | 19 |
| 20 | 40 | 29 | 47 | 249 | 54 | 24 | 92 | 92 | 65 | 117 | 102 | 114 | 20 |
| 21 | 31 | 29 | 50 | 209 | 49 | 43 | 88 | 72 | 94 | 67 | 135 | 119 | 21 |
| 22 | 27 | 32 | 72 | 185 | 50 | 37 | 86 | 72 | 88 | 68 | 123 | 126 | 22 |
| 23 | 43 | 29 | 62 | 173 | 44 | 12 | 57 | 123 | 110 | 70 | 106 | 133 | 23 |
| 24 | 96 | 27 | 61 | 157 | 35 | 20 | 138 | 134 | 142 | 85 | 126 | 63 | 24 |
| 25 | 33 | 27 | 62 | 146 | 34 | 37 | 99 | 99 | 133 | 71 | 165 | 80 | 25 |
| 26 | 29 | 27 | 55 | 138 | 30 | 47 | 56 | 141 | 119 | 54 | 187 | 104 | 26 |
| 27 | 27 | 27 | 421 E | 131 | 16 | 90 | 48 | 138 | 94 | 72 | 135 | 117 | 27 |
| 28 | 26 | 26 | 1000 E | 124 | 10 | 155 | 109 | 93 | 113 | 95 | 119 | 120 | 28 |
| 29 | 26 | 25 | 772 E | 119 | | 119 | 115 | 69 | 65 | 81 | 106 | 119 | 29 |
| 30 | 25 | 26 | 374 | 119 | | 202 | 70 | 66 | 65 | 83 | 61 | 114 | 30 |
| 31 | 25 | | 227 | 114 | | 229 | | 46 | | 110 | 65 | | 31 |
| MEAN | 109 | 52 | 133 E | 320 | 69 | 143 | 146 | 97 | 83 | 110 | 108 | 101 | MEAN |
| MAX. | 509 | 265 | 1000 E | 768 | 110 | 591 | 747 | 182 | 142 | 256 | 187 | 146 | MAX. |
| MIN. | 25 | 22 | 22 | 114 | 10 | 8 | 0 | 46 | 32 | 47 | 36 | 46 | MIN. |
| AC. FT. | 6694 | 3122 | 8152 | 19676 | 3848 | 8763 | 8696 | 5943 | 4911 | 6780 | 6617 | 6018 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 123 | 768 | 8.10 | 1 | 8 | | 0 | 0.81 | 4 | 16 | | 90220 |

| 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 21 | 120 39 08 | NE 9 8S 12E | | | | 1930- | | | | | |

Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater.

Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs.

Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey topographic map). Monthly runoff records dating back to 1947 are published in Bulletin No. 130-69.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B56100 | BURNS CREEK BELOW BURNS RESERVOIR |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 4.5 | 125 | 3.0 | 1.0 | 91 | 0.4 | | | | |
| 2 | | | 3.4 | 41 | 2.6 | 13 | 484 * | 0.2 | | | | |
| 3 | | | 42 | 17 | 2.2 | 171 | 61 | 0.0 | | | | |
| 4 | | | 30 | 61 | 1.9 | 60 | 25 | 0.0 | | | | |
| 5 | | | 0.0 | 69 | 1.8 | 19 | 16 | 0.0 | | | | |
| 6 | | | 0.0 | 359 | 1.7 | 12 | 10 | 0.0 | | | | |
| 7 | | | 0.0 | 581 | 1.5 | 9.0 | 7.0 | 0.0 | | | | |
| 8 | | | 0.0 | 168 | 1.3 | 228 | 6.1 | 0.0 | | | | |
| 9 | | | 0.0 | 74 | 1.2 | 53 | 5.8 | 0.0 | | | | |
| 10 | | | 0.0 | 40 | 1.2 | 23 | 10 | 0.0 | | | | |
| 11 | | | 0.0 | 28 | 1.1 | 16 | 6.4 | 0.0 | | | | |
| 12 | | | 0.0 | 60 | 1.3 | 13 | 4.3 | 0.0 | | | | |
| 13 | N | N | 0.0 | 38 | 2.8 | 9.5 | 3.6 | 0.0 | N | N | N | N |
| 14 | O | O | 0.0 | 23 | 3.2 | 7.0 | 3.0 | 0.0 | O | O | O | O |
| 15 | | | 0.0 | 18 | 2.6 | 6.1 | 2.6 | 0.0 | | | | |
| 16 | F | F | 0.0 | 18 | 1.6 | 5.2 | 2.0 | 0.0 | F | F | F | F |
| 17 | L | L | 0.0 | 18 | 1.4 | 4.6 | 1.8 | 0.0 | L | L | L | L |
| 18 | O | O | 0.0 | 18 | 1.2 | 3.8 | 1.6 | 0.0 | O | O | O | O |
| 19 | W | W | 0.0 | 32 | 1.5 | 3.4 | 1.6 | 0.0 | W | W | W | W |
| 20 | | | 0.0 | 18 | 2.6 | 3.0 | 1.6 | 0.0 | | | | |
| 21 | | | 0.0 | 14 | 2.8 | 2.2 | 1.3 | 0.0 | | | | |
| 22 | | | 3.3 | 11 | 1.6 | 1.9 | 1.2 | 0.0 | | | | |
| 23 | | | 0.4 | 9.0 | 1.3 | 1.8 | 1.1 | 0.0 | | | | |
| 24 | | | 0.0 | 8.0 | 1.1 | 1.7 | 1.7 | 0.0 | | | | |
| 25 | | | 0.0 | 6.7 | 1.0 | 1.7 | 2.6 | 0.0 | | | | |
| 26 | | | 0.0 | 6.1 | 0.9 | 1.6 | 1.8 | 0.0 | | | | |
| 27 | | | 356 | 5.2 | 0.8 | 1.6 | 1.1 | 0.0 | | | | |
| 28 | | | 206 | 4.6 | 0.8 | 4.7 | 0.8 | 0.0 | | | | |
| 29 | | | 40 | 3.8 | | 7.0 | 0.7 | 0.0 | | | | |
| 30 | | | 17 | 3.6 | | 5.2 | 0.6 | 0.0 | | | | |
| 31 | | | 12 | 3.2 | | 24 | | 0.0 | | | | |
| MEAN | | | 23 | 60.7 | 1.7 | 23 | 25.2 | 0 | | | | |
| MAX. | | | 356 | 581 | 3.2 | 228 | 484 | 0.4 | | | | |
| MIN. | | | 0 | 3.2 | 0.8 | 1.0 | 0.6 | 0.2 | | | | |
| AC. FT. | | | 1417 | 3731 | 92 | 1416 | 1502 | 0 | | | | |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.3 | 1122 | | 4 | 2 | | 0 | | | | | 8162 |

| 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 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 downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07400 | SAN JOAQUIN RIVER NEAR STEVINSON |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 45 | 46 | 53 | 637 | 1180 | 40 * | 362 | 136 * | 35 | 24 | 29 * | 67 | 1 |
| 2 | 51 * | 43 | 69 | 595 | 1010 | 40 | 552 | 118 | 33 | 25 | 26 | 76 | 2 |
| 3 | 67 | 38 | 93 * | 583 | 908 | 71 | 1480 | 94 | 36 | 21 * | 30 | 90 | 3 |
| 4 | 63 | 36 | 184 | 484 | 572 | 577 | 3080 * | 78 | 41 | 22 | 33 | 89 * | 4 |
| 5 | 51 | 31 * | 138 | 527 | 400 | 1820 | 2620 | 83 | 52 | 20 | 30 | 87 | 5 |
| 6 | 59 | 24 | 112 | 655 | 325 | 1770 | 1900 | 106 | 61 | 18 | 29 | 95 | 6 |
| 7 | 97 | 42 | 78 | 822 * | 279 | 1170 * | 1430 | 116 | 56 | 20 | 26 | 96 | 7 |
| 8 | 283 | 169 | 62 | 1730 | 225 | 743 | 1080 | 107 | 56 | 21 | 25 | 93 | 8 |
| 9 | 453 | 196 | 57 | 2050 | 216 | 772 | 758 | 77 | 46 | 20 | 27 | 101 | 9 |
| 10 | 426 | 167 | 53 | 1900 | 212 | 840 | 668 | 58 | 40 | 21 | 26 | 93 | 10 |
| 11 | 341 | 135 | 54 | 1400 | 204 | 795 | 550 | 51 | 39 | 47 | 27 | 88 | 11 |
| 12 | 247 | 113 | 55 | 1010 | 206 | 512 | 567 | 46 | 41 | 71 | 31 | 87 | 12 |
| 13 | 243 | 102 | 66 | 809 | 186 | 331 | 520 | 42 | 40 | 111 | 33 | 76 | 13 |
| 14 | 238 | 58 | 159 | 695 | 159 | 179 * | 343 | 43 | 38 | 115 | 35 | 71 | 14 |
| 15 | 205 | 48 | 186 | 598 | 148 * | 129 | 273 | 39 | 37 | 100 | 38 | 71 | 15 |
| 16 | 172 | 47 | 156 | 542 * | 142 | 103 | 324 | 35 * | 36 | 65 | 42 | 86 | 16 |
| 17 | 155 | 47 | 132 | 452 | 127 | 88 | 318 | 42 | 32 | 51 | 52 | 103 | 17 |
| 18 | 154 | 59 | 129 | 377 | 117 | 80 | 272 | 43 | 33 | 50 | 51 | 105 | 18 |
| 19 | 151 | 73 | 86 | 604 | 107 | 82 | 191 * | 45 | 34 | 43 | 48 | 104 | 19 |
| 20 | 132 | 70 | 65 | 1160 | 98 | 66 | 140 | 46 | 35 | 36 | 52 | 98 | 20 |
| 21 | 116 | 66 | 74 | 1280 * | 95 | 55 | 125 | 52 | 35 | 30 | 58 | 102 | 21 |
| 22 | 71 | 65 | 256 | 1350 | 78 | 58 | 106 | 47 | 31 | 23 | 66 | 99 | 22 |
| 23 | 51 | 61 | 381 | 1510 | 69 | 54 | 104 | 43 | 30 | 24 | 71 | 94 | 23 |
| 24 | 44 | 51 | 326 | 1560 | 62 | 44 | 103 | 62 | 32 | 30 | 58 | 93 | 24 |
| 25 | 64 | 54 | 213 | 1840 | 57 | 42 | 92 | 78 | 35 | 31 | 60 | 82 | 25 |
| 26 | 96 | 54 | 173 | 1080 | 53 | 44 | 88 | 76 | 33 | 29 | 80 | 84 | 26 |
| 27 | 81 | 58 | 205 | 1240 | 50 | 48 | 80 | 79 | 32 | 25 | 103 | 93 | 27 |
| 28 | 70 | 57 | 712 | 1190 | 43 | 113 | 83 | 70 | 32 | 21 | 80 | 136 | 28 |
| 29 | 63 | 53 | 1570 | 1130 | | 247 | 106 | 55 | 28 | 21 | 69 | 157 | 29 |
| 30 | 57 | 53 | 1420 | 1110 | | 224 | 128 | 45 | 29 | 25 | 78 | 161 | 30 |
| 31 | 50 | | 974 | 1160 * | | 290 | | 37 | | 29 | 68 | | 31 |
| MEAN | 142 | 70.5 | 267 | 1035 | 262 | 369 | 615 | 66.1 | 38 | 38.4 | 47.8 | 95.9 | MEAN |
| MAX. | 453 | 196 | 1570 | 2050 | 1180 | 1820 | 3080 | 136 | 61 | 115 | 103 | 161 | MAX. |
| MIN. | 44 | 24 | 53 | 377 | 43 | 40 | 80 | 35 | 28 | 18 | 25 | 67 | MIN. |
| AC. FT. | 8719 | 4196 | 16450 | 63630 | 14540 | 22670 | 36580 | 4064 | 2257 | 2358 | 2938 | 5706 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 251 | 3210 | 70.80 | 4 | 4 | 1345 | 18 | 60.78 | 7 | 6 | 1730 | 184100 |

| 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 50 00 | 26 7S 10E | 26740 | 76.23 | 2-26-69 | OCT 61-DATE | MAY 61-SEP 61 | 1961 | | 0.00 | USCGS |

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B00975 | PANOCHE DRAIN NEAR DOS PALOS |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 19 * | 36 | 27 | 29 | 28 | 59 | 33 | 48 | 57 | 63 * | 62 | 49 |
| 2 | 20 | 37 | 25 | 21 * | 27 | 57 | 35 | 46 | 63 | 55 | 61 | 40 |
| 3 | 21 | 33 | 24 * | 28 | 28 | 60 | 30 * | 48 | 67 | 57 | 57 | 40 * |
| 4 | 22 | 28 | 21 | 37 | 32 | 58 | 32 | 51 | 68 | 61 | 57 | 45 |
| 5 | 20 | 36 * | 20 | 33 | 32 | 59 | 44 | 51 | 63 | 67 | 50 | 42 |
| 6 | 26 | 37 | 22 | 23 | 34 | 57 | 40 | 53 | 56 | 61 | 49 * | 45 |
| 7 | 36 | 30 | 22 | 35 | 38 | 61 | 40 | 51 | 50 | 61 | 49 | 46 |
| 8 | 38 | 28 | 19 | 40 | 37 | 67 | 37 | 52 | 48 | 63 | 50 | 45 |
| 9 | 32 | 29 | 21 | 31 | 37 | 62 | 38 | 48 | 49 | 64 | 54 | 41 |
| 10 | 23 | 33 | 22 | 25 | 44 | 57 | 45 | 47 | 48 | 70 | 56 | 40 |
| 11 | 27 | 42 | 27 | 25 | 45 | 54 * | 42 | 48 | 47 | 68 | 64 | 40 |
| 12 | 28 | 36 | 25 | 25 | 46 | 57 | 41 | 49 | 49 | 78 | 70 | 41 |
| 13 | 24 | 33 | 40 | 25 | 51 | 57 | 46 | 51 | 54 | 83 | 62 | 46 |
| 14 | 22 | 35 | 29 | 26 | 50 | 59 | 46 | 54 | 57 * | 80 | 64 | 41 |
| 15 | 22 | 35 | 30 | 26 | 56 * | 59 | 47 * | 59 * | 58 | 81 | 62 * | 33 |
| 16 | 23 | 41 | 27 | 26 | 60 | 57 | 48 | 66 | 60 | 71 | 64 | 36 |
| 17 | 24 * | 41 | 34 * | 26 | 62 | 55 | 49 | 66 | 62 | 72 | 53 | 39 |
| 18 | 28 | 37 | 34 | 28 | 63 | 55 | 46 | 63 | 60 | 65 | 49 | 35 |
| 19 | 32 | 35 * | 41 | 28 | 63 | 52 | 48 | 66 | 65 | 62 | 48 | 30 E |
| 20 | 31 | 32 | 36 | 30 | 61 | 52 | 49 | 68 | 64 | 61 | 46 | 30 E |
| 21 | 24 | 35 | 37 | 29 | 76 | 52 | 51 | 65 | 57 | 60 | 49 | 30 E |
| 22 | 28 | 34 | 41 | 31 | 67 | 52 | 53 | 68 | 56 | 67 | 50 | 29 E |
| 23 | 28 | 34 | 27 | 33 | 66 | 52 | 57 | 70 | 61 | 66 * | 64 | 31 E |
| 24 | 28 | 31 | 27 | 32 | 61 | 47 | 48 | 64 | 58 | 67 | 71 | 25 E |
| 25 | 30 | 41 | 28 | 31 | 58 | 48 | 41 | 61 | 51 | 60 | 68 | 26 E |
| 26 | 28 | 38 | 40 | 35 | 59 | 46 | 41 | 64 | 54 | 58 | 75 | 29 E |
| 27 | 36 | 38 | 42 | 33 | 56 | 38 | 42 | 68 | 56 | 67 | 62 | 26 E |
| 28 | 39 | 37 | 43 | 28 | 56 | 51 | 45 | 66 | 59 | 76 | 55 | 25 E |
| 29 | 45 | 42 | 24 | 31 | | 48 | 49 | 63 | 51 | 77 | 56 | 26 E |
| 30 | 36 | 33 | 19 | 26 * | | 48 | 44 * | 67 | 53 | 70 | 55 | 26 E |
| 31 | 33 | | 21 | 30 | | 38 | | 60 * | | 60 | 52 | |
| MEAN | 28.2 | 35.2 | 28.9 | 29.2 | 49.8 | 54.0 | 43.6 | 58.1 | 56.7 | 66.8 | 57.5 | 35.9 |
| MAX. | 45 | 42 | 43 | 40 | 76 | 67 | 57 | 70 | 68 | 83 | 75 | 49 |
| MIN. | 19 | 28 | 19 | 21 | 27 | 38 | 30 | 46 | 47 | 55 | 46 | 25 |
| AC. FT. | 1732 | 2097 | 1775 | 1797 | 2763 | 3320 | 2592 | 3572 | 3374 | 4108 | 3539 | 2136 |

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 |
| 45.3 | 84 | 6.15 | 7 | 13 | 1200 | 16 | 1.86 | 10 | 1 | | 31806 |

| 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 55 25 | 120 41 19 | NW 5 12S 12E | 69.<br>89.[a] | 9.19<br>9.25 | 11-24-65<br>2-13-73 | FEB 59-SEP 62<br>OCT 64-SEP 68<br>APR 69-DATE | OCT 62-JUL 63 | 1959 | | -2.00 | LOCAL |

Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).

a In April 1969, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B00470 | SALT SLOUGH NEAR STEVINSON |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 196 | 83 | 138 | 145 | 143 | 220 * | 336 * | 154 * | 134 | 119 | 134 * | 186 | 1 |
| 2 | 138 * | 79 | 140 | 146 * | 155 | 190 | 332 | 147 | 150 | 134 | 106 | 209 | 2 |
| 3 | 91 | 65 | 138 * | 145 | 180 | 209 | 346 | 152 | 155 * | 103 * | 126 | 206 | 3 |
| 4 | 92 | 43 | 133 | 148 | 169 | 265 | 403 | 146 | 143 | 99 | 121 | 192 * | 4 |
| 5 | 93 | 38 * | 127 | 148 | 163 | 262 | 409 | 146 | 123 | 105 | 116 | 181 | 5 |
| 6 | 109 | 46 | 110 | 147 | 162 | 241 | 346 | 171 | 80 | 125 | 136 | 148 | 6 |
| 7 | 112 | 58 | 105 | 158 | 155 | 245 | 301 | 149 | 86 | 139 | 125 | 136 | 7 |
| 8 | 140 | 76 | 105 | 208 | 146 | 298 | 285 | 113 | 115 | 156 | 105 | 121 | 8 |
| 9 | 123 | 92 | 92 | 242 | 131 | 342 | 260 | 107 | 119 | 169 | 100 | 125 | 9 |
| 10 | 88 | 95 | 89 | 236 | 131 | 350 | 243 | 114 | 129 | 179 | 120 | 100 | 10 |
| 11 | 69 | 89 | 89 | 216 | 139 | 311 | 240 | 113 | 144 | 198 | 121 | 82 | 11 |
| 12 | 66 | 93 | 103 | 200 | 141 | 291 | 231 | 107 | 93 | 231 | 131 | 69 | 12 |
| 13 | 84 | 82 | 104 | 187 | 162 | 266 | 207 | 112 | 98 | 222 | 120 | 78 | 13 |
| 14 | 76 | 91 | 111 | 181 | 182 | 269 * | 178 | 97 | 75 | 197 | 114 | 88 | 14 |
| 15 | 85 | 102 | 111 | 181 | 189 | 269 | 193 | 81 | 103 | 200 | 117 | 88 | 15 |
| 16 | 76 | 120 | 108 | 181 | 206 | 258 | 170 | 67 | 109 | 145 | 109 | 112 | 16 |
| 17 | 56 | 121 | 109 | 181 | 191 | 257 | 151 | 71 | 129 | 117 | 118 | 151 | 17 |
| 18 | 46 | 116 | 108 | 179 | 187 | 255 | 134 | 130 | 169 | 111 | 135 | 123 | 18 |
| 19 | 48 | 109 | 113 | 177 | 206 | 257 | 143 | 135 | 154 | 105 | 143 | 125 | 19 |
| 20 | 56 | 119 | 113 | 180 | 216 | 249 | 175 | 141 | 148 | 120 | 148 | 127 | 20 |
| 21 | 70 | 117 | 122 | 198 | 211 | 239 | 215 | 173 | 157 | 118 | 169 | 131 | 21 |
| 22 | 87 | 112 | 137 | 198 | 179 | 226 | 218 | 165 | 149 | 119 | 171 | 127 | 22 |
| 23 | 88 | 113 | 139 | 184 | 179 | 211 | 199 | 159 | 147 | 110 | 163 | 125 | 23 |
| 24 | 82 | 112 | 137 | 193 | 188 | 213 | 155 | 177 | 141 | 128 | 153 | 107 | 24 |
| 25 | 70 | 112 | 134 | 209 | 197 | 224 | 151 | 175 | 148 | 119 | 156 | 98 | 25 |
| 26 | 67 | 113 | 133 | 187 | 229 | 243 | 166 | 185 | 148 | 90 | 152 | 103 | 26 |
| 27 | 75 | 119 | 143 | 169 | 229 | 264 | 174 | 181 | 114 | 102 | 152 | 107 | 27 |
| 28 | 85 | 121 | 162 | 161 | 210 | 298 | 171 | 192 | 116 | 93 | 154 | 127 | 28 |
| 29 | 86 | 128 | 188 | 156 | | 379 | 176 | 156 | 102 | 110 | 153 | 156 | 29 |
| 30 | 90 | 134 | 183 | 153 | | 384 | 166 | 147 | 117 | 110 | 184 | 170 | 30 |
| 31 | 94 | | 149 | 144 * | | 362 | | 131 | | 132 | 199 | | 31 |
| MEAN | 88.3 | 96.6 | 125 | 179 | 178 | 269 | 229 | 139 | 127 | 136 | 137 | 130 | MEAN |
| MAX. | 196 | 134 | 188 | 242 | 229 | 384 | 409 | 192 | 169 | 231 | 199 | 209 | MAX. |
| MIN. | 46 | 38 | 89 | 144 | 131 | 190 | 134 | 167 | 75 | 90 | 100 | 69 | MIN. |
| AC. FT. | 5431 | 5748 | 7682 | 10980 | 9870 | 16560 | 13630 | 8517 | 7527 | 8340 | 8432 | 7732 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 153 | 431 | 67.57 | 4 | 4 | 2300 | 36 | 63.89 | 11 | 5 | 0815 | 110500 |

| 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 |
| 37 14 52 | 120 51 04 | SE10 8S 10E | 537 | 70.35a<br>69.62 | 6-10-69<br>2-14-73 | MAR 68-DATE | | 1968 | | 0.00 | USCGS |

Station located at Lander Avenue bridge, 5.5 miles south of Stevinson. This includes drainage being returned to San Joaquin River. Drainage area is 227 square miles.

a This maximum gage height of record was affected by backwater and does not represent the maximum discharge.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | 852580 | BEAN CREEK NEAR COULTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.1 | 0.3 | 16 | 8.7 | 4.7 | 25 | 196 | 3.5 | 1.4 | 0.3 * | 0.3 | 0.3 |
| 2 | 0.1 | 0.3 | 8.7 | 4.5 | 4.4 | 68 | 55 * | 3.2 | 1.3 | 0.3 | 0.3 * | 0.3 |
| 3 | 0.1 * | 0.4 | 3.8 | 3.6 | 4.2 | 30 | 26 | 3.1 | 1.3 | 0.3 | 0.3 | 0.3 |
| 4 | 0.2 | 0.5 | 3.3 * | 4.1 | 4.1 | 21 | 17 | 2.7 | 1.3 | 0.3 | 0.3 | 0.3 |
| 5 | 0.2 | 0.5 | 1.8 | 5.0 | 4.3 | 18 * | 12 | 2.8 | 1.5 | 0.3 | 0.3 | 0.2 |
| 6 | 0.2 | 0.6 | 1.1 | 5.3 | 4.0 | 17 | 7.3 | 2.8 | 1.3 | 0.3 | 0.3 | 0.2 |
| 7 | 0.4 | 0.6 | 1.0 | 6.9 | 4.1 * | 28 | 5.9 | 2.6 * | 1.2 * | 0.3 | 0.3 | 0.2 |
| 8 | 0.5 | 0.5 | 1.1 | 7.5 | 2.3 | 23 | 6.8 | 2.5 | 1.2 | 0.4 | 0.3 | 0.2 |
| 9 | 0.3 | 0.5 | 0.9 | 6.7 * | 3.4 | 18 | 13 | 2.4 | 1.1 | 0.7 | 0.3 | 0.2 |
| 10 | 0.3 | 0.7 | 0.8 | 5.9 | 3.3 | 12 | 12 | 2.3 | 1.0 | 0.7 | 0.3 | 0.2 * |
| 11 | 0.3 | 1.0 | 0.9 | 7.4 | 3.2 | 13 | 6.4 | 2.1 | 0.9 | 0.6 | 0.3 | 0.2 |
| 12 | 0.3 | 2.9 | 0.9 | 17 | 3.4 | 8.4 | 3.1 | 2.2 | 0.9 | 0.5 | 0.3 | 0.2 |
| 13 | 0.3 | 1.1 * | 6.1 | 17 | 3.8 | 8.0 | 3.8 | 2.2 | 0.8 | 0.5 | 0.3 | 0.2 |
| 14 | 0.3 | 1.3 | 5.2 | 16 | 3.7 | 6.4 | 4.7 | 2.1 | 0.8 | 0.4 | 0.3 | 0.2 |
| 15 | 0.3 | 0.6 | 1.2 | 11 | 3.3 | 6.9 | 4.4 | 2.1 | 0.8 | 0.3 | 0.3 | 0.2 |
| 16 | 0.3 | 0.7 | 0.9 | 14 | 3.3 | 6.6 | 4.1 | 2.2 | 0.8 | 0.3 | 0.3 | 0.2 |
| 17 | 0.3 | 5.2 | 0.9 | 28 | 3.2 | 6.2 | 3.9 | 2.2 | 0.8 | 0.4 | 0.3 | 0.2 |
| 18 | 0.3 | 8.1 | 1.0 | 24 | 3.1 | 6.0 | 5.5 | 2.2 | 0.8 * | 0.4 | 0.3 | 0.2 |
| 19 | 0.3 | 1.5 | 0.8 | 20 | 9.5 | 5.6 | 3.2 | 2.3 | 0.8 | 0.3 | 0.3 | 0.2 |
| 20 | 0.3 | 1.0 | 0.8 | 19 | 6.9 | 5.1 | 3.0 | 2.1 * | 0.8 | 0.3 | 0.3 | 0.2 |
| 21 | 0.3 | 0.8 | 6.5 | 10 | 1.7 * | 4.8 | 3.4 | 2.0 | 0.7 | 0.3 | 0.3 | 0.2 |
| 22 | 0.4 | 0.8 | 8.3 | 5.8 | 1.7 | 4.8 | 3.3 | 2.0 | 0.7 | 0.3 | 0.3 | 0.1 |
| 23 | 1.0 | 0.7 | 4.1 | 8.0 | 2.0 | 4.6 | 3.6 | 2.0 | 0.6 | 0.3 | 0.2 | 0.1 |
| 24 | 0.4 | 0.7 | 3.9 | 7.4 | 3.1 | 4.5 | 16 | 1.9 | 0.5 | 0.3 | 0.2 | 0.1 |
| 25 | 0.3 | 0.7 | 3.3 | 6.6 | 3.1 | 4.5 | 8.4 | 1.8 | 0.5 | 0.3 | 0.2 | 0.2 |
| 26 | 0.3 | 0.7 | 2.6 | 5.9 | 3.2 | 4.4 | 5.0 | 1.8 | 0.5 | 0.3 | 0.2 | 0.2 |
| 27 | 0.3 | 0.7 | 40 | 5.4 | 3.2 | 6.8 | 4.8 | 1.6 | 0.5 | 0.3 | 0.2 | 0.2 |
| 28 | 0.3 | 0.6 | 27 | 5.3 | 5.0 | 15 | 4.4 | 1.5 | 0.4 | 0.3 | 0.2 | 0.1 |
| 29 | 0.3 | 0.6 | 17 | 5.0 | | 11 | 3.9 | 1.4 | 0.4 | 0.3 | 0.2 | 0.1 |
| 30 | 0.4 | 0.6 | 13 | 4.7 | | 13 | 3.6 | 1.5 | 0.4 | 0.3 | 0.2 | 0.1 |
| 31 | 0.4 | | 12 | 4.5 | | 9.6 | | 1.5 | | 0.3 | 0.2 | |
| MEAN | 0.3 | 1.2 | 6.3 | 9.7 | 3.8 | 13.4 | 15.0 | 2.2 | 0.9 | 0.4 | 0.3 | 0.2 |
| MAX. | 1.0 | 8.1 | 40 | 28 | 9.5 | 68 | 196 | 3.5 | 1.5 | 0.7 | 0.3 | 0.3 |
| MIN. | 0.1 | 0.3 | 0.8 | 3.6 | 1.7 | 4.4 | 3.0 | 1.4 | 0.4 | 0.3 | 0.2 | 0.1 |
| AC. FT. | 19 | 70 | 387 | 595 | 209 | 824 | 892 | 136 | 52 | 22 | 17 | 12 |

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 |
| 4.5 | 591 | 6.33 | 4 | 1 | 1515 | 0.0 | 1.12 | 10 | 1 | 2030 | 3235 |

| 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 29 | 120 07 00 | SE20 2S 17E | 1090 | 8.13 | 1-21-69 | DEC 65-DATE | | 1965 | | 0.00 | LOCAL |

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville. Maximum discharge of record from rating curve extended above 758 cfs. There are no upstream impairments. Drainage area is 7.4 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B51250 | MAXWELL CREEK AT COULTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 | 0.6 | 48 | 19 | 5.5 | 52 | 387 | 5.7 | 1.4 | 0.4 * | 0.2 | 0.0 | 1 |
| 2 | 0.0 | 0.6 | 12 | 13 | 5.0 | 198 | 187 * | 5.5 | 1.3 | 0.4 | 0.2 * | 0.0 | 2 |
| 3 | 0.0 * | 0.7 | 5.5 | 10 | 4.6 | 102 | 51 | 5.2 | 1.2 | 0.3 | 0.1 | 0.0 | 3 |
| 4 | 0.0 | 0.7 | 3.7 * | 9.4 | 4.4 | 60 | 28 | 5.0 | 1.1 | 0.3 | 0.1 | 0.0 | 4 |
| 5 | 0.1 | 0.7 | 2.8 | 11 | 4.3 | 37 * | 19 | 4.7 | 1.1 | 0.3 | 0.1 | 0.0 | 5 |
| 6 | 0.1 | 1.1 | 2.3 | 34 | 4.0 | 25 | 15 | 4.5 | 1.0 | 0.3 | 0.1 | 0.0 | 6 |
| 7 | 0.6 | 1.1 | 2.0 | 73 | 3.8 * | 36 | 12 | 4.2 * | 1.0 * | 0.3 | 0.1 | 0.0 | 7 |
| 8 | 1.2 | 0.9 | 1.8 | 42 | 3.6 | 74 | 11 | 4.0 | 0.9 | 0.3 | 0.1 | 0.0 | 8 |
| 9 | 0.5 | 0.9 | 1.8 | 26 * | 3.6 | 41 | 14 | 3.7 | 0.9 | 2.4 | 0.1 | 0.0 | 9 |
| 10 | 0.4 | 1.2 | 1.7 | 18 | 3.5 | 27 | 12 | 3.6 | 0.9 | 1.9 | 0.1 | 0.0 | 10 |
| 11 | 0.4 | 2.0 | 2.0 | 15 | 3.4 | 21 | 9.9 | 3.4 | 0.9 | 1.2 | 0.1 | 0.0 | 11 |
| 12 | 0.3 | 8.6 | 1.8 | 37 | 4.1 | 17 | 8.9 | 3.2 | 0.8 | 1.0 | 0.1 | 0.0 | 12 |
| 13 | 0.2 | 3.7 * | 3.2 | 24 | 4.2 | 14 | 8.3 | 3.1 | 0.7 | 0.9 | 0.1 | 0.1 | 13 |
| 14 | 0.3 | 6.4 | 3.2 | 16 | 3.5 | 12 | 7.5 | 3.0 | 0.7 | 0.7 | 0.2 | 0.1 | 14 |
| 15 | 0.2 | 2.7 | 2.5 | 13 | 3.4 | 11 | 6.9 | 2.9 | 0.7 | 0.6 | 0.1 | 0.1 | 15 |
| 16 | 0.2 | 2.4 | 2.2 | 13 | 3.4 | 9.9 | 6.5 | 2.9 | 0.9 | 0.5 | 0.1 | 0.1 | 16 |
| 17 | 0.2 | 8.5 | 2.3 | 31 | 3.3 | 8.8 | 6.1 | 2.9 | 0.9 | 0.5 | 0.1 | 0.1 | 17 |
| 18 | 0.2 | 15 | 2.3 | 27 | 3.3 | 8.4 | 6.2 | 2.8 | 0.7 * | 0.5 | 0.1 | 0.1 | 18 |
| 19 | 0.2 | 6.0 | 2.1 | 23 | 7.3 | 7.6 | 5.8 | 2.6 | 0.7 | 0.4 | 0.1 | 0.1 | 19 |
| 20 | 0.3 | 3.4 | 2.0 | 24 | 7.3 | 6.9 | 5.7 | 2.5 | 0.8 | 0.4 | 0.1 | 0.1 | 20 |
| 21 | 0.3 | 2.6 | 4.9 | 20 | 5.9 | 6.3 | 5.4 | 2.4 | 0.8 | 0.4 | 0.2 | 0.0 | 21 |
| 22 | 0.4 | 2.1 | 23 | 16 | 5.6 | 6.1 | 5.2 | 2.3 | 0.7 | 0.4 | 0.1 | 0.0 | 22 |
| 23 | 2.7 | 1.8 | 8.4 | 13 | 5.1 | 5.9 | 5.9 | 2.1 | 0.6 | 0.3 | 0.1 | 0.0 | 23 |
| 24 | 1.0 | 1.8 | 5.6 | 11 | 4.8 | 5.6 | 20 | 2.0 | 0.6 | 0.3 | 0.1 | 0.0 | 24 |
| 25 | 0.7 | 1.7 | 4.2 | 10 | 4.6 | 5.5 | 14 | 1.9 | 0.6 | 0.3 | 0.1 | 0.0 | 25 |
| 26 | 0.7 | 1.8 | 5.6 | 8.9 | 4.4 | 5.3 | 10 | 1.8 | 0.6 | 0.2 | 0.1 | 0.0 | 26 |
| 27 | 0.6 | 1.6 | 155 | 7.8 | 4.3 | 6.2 | 8.2 | 1.5 | 0.5 | 0.2 | 0.1 | 0.0 | 27 |
| 28 | 0.6 | 1.5 | 49 | 7.2 | 4.3 | 18 | 7.3 | 1.5 | 0.5 | 0.2 | 0.1 | 0.0 | 28 |
| 29 | 0.6 | 1.5 | 33 | 6.6 | | 13 | 6.4 | 1.5 | 0.5 | 0.3 | 0.1 | 0.0 | 29 |
| 30 | 0.6 | 1.5 | 30 | 6.3 | | 22 | 5.9 | 1.5 | 0.4 | 0.2 | 0.0 | 0.0 | 30 |
| 31 | 0.6 | | 15 | 5.7 | | 19 | | 1.5 | | 0.2 | 0.0 | | 31 |
| MEAN | 0.5 | 2.8 | 14 | 19.1 | 4.5 | 28.4 | 29.9 | 3.1 | 0.8 | 0.5 | 0.1 | 0.0 | MEAN |
| MAX. | 2.7 | 15 | 155 | 73 | 7.3 | 198 | 387 | 5.7 | 1.4 | 2.4 | 0.2 | 0.1 | MAX. |
| MIN. | 0.0 | 0.6 | 1.7 | 5.7 | 3.3 | 5.3 | 5.2 | 1.5 | 0.4 | 0.2 | 0.0 | 0.0 | MIN. |
| AC. FT. | 28 | 169 | 871 | 1172 | 247 | 1748 | 1777 | 189 | 48 | 33 | 7 | 2 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.7 | 984 | 5.45 | 4 | 1 | 2100 | 0.0 | 2.43 | 10 | 1 | 0000 | 6291 |

| 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 42 58 | 120 11 20 | SE34 2S 16E | 1770E | 5.71 | 12-23-64 | DEC 58-DATE | | 1958 | | 0.00 | LOCAL |

Station located on downstream side of 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 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07375 | SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 231 | 163 | 210 | 1030 | 1510 | 290 * | 674 | 319 * | 212 | 162 | 178 * | 262 |
| 2 | 235 * | 153 | 221 | 862 | 1360 | 281 | 816 | 301 | 206 | 174 | 171 | 265 |
| 3 | 192 | 144 | 234 * | 882 | 1290 | 276 | 1220 | 271 | 217 | 164 * | 161 | 304 |
| 4 | 177 | 127 | 263 | 796 | 1010 | 521 | 2310 * | 240 | 218 | 150 | 180 | 296 * |
| 5 | 166 | 104 * | 288 | 749 | 763 | 1510 | 2400 * | 234 | 220 | 141 | 179 | 285 |
| 6 | 167 | 97 | 253 | 850 | 618 | 1930 | 2130 | 264 | 198 | 150 | 182 | 264 |
| 7 | 190 | 107 | 221 | 952 * | 541 | 1650 | 1780 | 304 | 189 | 167 | 182 | 256 |
| 8 | 287 | 190 | 192 | 1490 | 465 * | 1200 | 1510 | 264 | 188 | 182 | 171 | 249 |
| 9 | 363 | 270 | 176 | 2110 | 417 | 1090 | 1190 | 224 | 202 | 199 | 157 | 233 |
| 10 | 382 | 270 | 162 | 2170 | 399 | 1220 | 1040 | 196 | 205 * | 218 | 156 | 225 |
| 11 | 389 | 248 | 161 | 1960 | 390 | 1240 | 912 | 186 | 229 | 244 | 162 | 193 |
| 12 | 321 | 232 | 169 | 1590 | 400 | 1030 | 862 | 183 | 202 | 285 | 168 | 166 |
| 13 | 306 | 221 | 185 | 1300 | 387 | 766 | 864 | 182 | 177 | 324 | 163 * | 158 |
| 14 | 301 | 203 | 221 | 1140 | 390 | 565 * | 675 | 177 | 151 | 360 | 161 | 162 |
| 15 | 293 | 187 | 302 | 1020 | 376 | 462 | 536 | 168 | 140 | 338 | 169 | 162 |
| 16 | 270 | 192 | 292 | 965 | 376 | 414 | 532 | 156 | 159 | 311 | 167 | 187 |
| 17 | 237 | 200 | 262 | 882 | 383 | 374 | 540 | 137 | 169 | 231 | 170 | 229 |
| 18 | 207 | 207 | 257 | 769 | 377 | 357 | 485 | 163 | 185 | 215 | 188 | 241 |
| 19 | 207 | 219 | 239 | 777 | 347 | 350 | 419 * | 188 | 208 | 204 | 207 | 226 |
| 20 | 197 | 232 | 203 | 1290 | 352 | 336 | 358 | 199 | 210 | 202 | 203 | 234 |
| 21 | 196 | 238 | 207 | 1580 | 351 | 310 | 354 | 220 | 214 | 199 | 225 | 234 |
| 22 | 191 | 218 | 294 | 1680 | 343 | 299 | 361 | 251 | 214 | 193 | 246 | 240 |
| 23 | 179 | 202 | 481 | 1790 | 306 | 286 | 344 | 237 | 203 | 169 | 263 | 242 |
| 24 | 165 | 193 | 496 | 1850 | 288 | 263 | 329 | 222 | 197 | 191 | 246 | 228 |
| 25 | 166 | 185 | 411 | 2070 | 288 | 268 | 295 | 251 | 206 | 191 | 228 | 199 |
| 26 | 173 | 191 | 345 | 1700 | 292 | 282 | 297 | 275 | 218 | 160 | 229 | 195 |
| 27 | 183 | 189 | 353 | 1590 | 314 | 301 | 300 | 293 | 198 | 162 | 262 | 194 |
| 28 | 183 | 197 | 607 | 1560 | 302 | 341 | 288 | 299 | 179 | 153 | 251 | 231 |
| 29 | 177 | 194 | 1330 | 1500 | | 490 | 290 | 278 | 172 | 149 | 223 | 287 |
| 30 | 170 | 200 | 1680 | 1450 | | 601 | 314 | 248 | 157 | 151 | 242 | 320 |
| 31 | 170 | | 1390 | 1450 | | 626 | | 219 | | 159 | 269 | |
| MEAN | 228 | 192 | 390 | 1349 | 523 | 643 | 814 | 231 | 195 | 203 | 199 | 232 |
| MAX. | 389 | 270 | 1680 | 2170 | 1510 | 1930 | 2400 | 319 | 229 | 360 | 269 | 320 |
| MIN. | 165 | 97 | 161 | 749 | 288 | 263 | 288 | 137 | 140 | 141 | 156 | 158 |
| AC. FT. | 14030 | 11450 | 24010 | 82920 | 29030 | 39530 | 48450 | 14180 | 11590 | 12490 | 12220 | 13820 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 2490 | 63.14 | 4 | 5 | 0230 | 96 | 54.98 | 11 | 6 | 0345 | 313700 |

| 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 35 | 120 55 45 | | 9180a | 68.05 | 2-26-69 | 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 upstream from the Merced River. Drainage area is approximately 8,090 square miles. Flow records were published in U. S. Geological Survey report "Surface Water Records of California" prior to 1972.

a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

LE B-3 (Cont.)

MEAN DISCHARGE

IC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | 805170 | MERCED RIVER BELOW SNELLING |

| OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123 | 26 | 707 | 1730 | 1390 | 399 | 284 | 888 | 740 | 148 | 157 | 127 | 1 |
| 122 * | 24 | 691 | 1560 * | 1380 | 404 | 279 * | 830 * | 724 | 150 * | 145 * | 124 | 2 |
| 119 | 22 | 686 * | 1430 | 1390 | 434 | 251 | 707 | 708 * | 145 | 153 | 119 | 3 |
| 121 | 23 | 687 | 1470 | 1080 | 873 | 232 | 629 | 696 | 148 | 172 | 116 * | 4 |
| 122 | 24 | 697 | 1440 | 770 | 1450 * | 233 | 630 | 706 | 154 | 166 | 130 | 5 |
| 109 | 34 | 690 | 1540 | 783 * | 1440 | 230 | 636 | 731 | 160 | 170 | 159 | 6 |
| 266 | 170 | 686 | 1570 | 778 | 1180 | 236 | 701 | 1460 | 166 | 168 | 157 | 7 |
| 396 | 147 | 686 | 1460 | 714 | 907 | 246 | 732 | 3210 | 177 | 158 | 153 | 8 |
| 413 | 258 * | 678 | 1420 | 456 | 420 | 259 | 719 | 3180 | 174 | 153 | 143 | 9 |
| 422 | 418 | 625 | 1420 | 423 | 396 | 234 | 710 | 2180 * | 174 | 147 | 127 | 10 |
| 308 | 408 | 346 | 1410 | 584 | 668 | 265 | 707 | 927 | 177 | 145 | 108 | 11 |
| 176 | 400 | 280 | 1410 | 678 | 604 | 259 | 716 | 907 | 175 | 151 | 111 | 12 |
| 154 | 390 | 410 | 1390 | 576 | 292 | 257 | 690 | 1070 | 170 | 155 | 112 | 13 |
| 155 | 392 | 623 | 1390 | 583 | 277 | 245 | 688 | 1760 | 172 | 145 | 106 | 14 |
| 167 | 393 | 632 | 1380 * | 557 | 277 | 217 | 676 | 1450 | 160 | 154 | 110 | 15 |
| 107 | 517 | 631 | 1390 | 432 | 234 | 274 | 684 | 878 | 168 | 138 | 106 | 16 |
| 123 | 877 | 633 | 1390 | 422 | 236 | 257 | 701 | 791 | 192 | 162 | 108 | 17 |
| 178 | 1230 | 634 | 1390 | 484 | 252 * | 253 | 693 | 497 | 180 | 158 | 111 | 18 |
| 180 | 1970 | 632 | 1390 | 543 | 277 | 265 | 672 | 164 | 178 | 163 | 110 | 19 |
| 183 | 1770 * | 636 | 1380 | 454 | 264 | 278 | 679 | 151 | 197 | 163 | 115 | 20 |
| 186 | 1230 | 648 | 1380 | 449 | 250 | 282 | 700 | 138 | 191 | 147 | 116 | 21 |
| 187 | 979 | 644 | 1380 | 442 | 235 | 283 | 555 | 128 | 190 | 141 | 120 | 22 |
| 191 | 936 | 639 | 1380 | 436 | 228 | 279 | 361 | 147 | 179 | 144 | 123 | 23 |
| 167 | 962 | 630 | 1380 | 419 | 215 | 287 | 335 | 145 | 171 | 154 | 123 | 24 |
| 78 | 981 | 634 | 1380 | 416 | 194 | 287 | 312 | 146 | 166 | 147 | 100 | 25 |
| 183 | 977 | 644 | 1380 | 422 | 201 | 745 | 318 | 131 | 184 | 150 | 100 | 26 |
| 186 | 833 | 1320 | 1380 | 408 | 218 | 1100 | 314 | 127 | 182 | 151 | 111 | 27 |
| 121 | 666 | 1760 | 1390 | 375 | 248 | 1090 | 309 | 142 | 182 | 143 | 123 | 28 |
| 31 | 659 | 1710 | 1380 | | 256 | 1040 | 558 | 154 | 176 | 138 | 129 | 29 |
| 28 | 674 | 1700 | 1380 | | 254 | 945 | 760 | 157 | 177 | 130 | 132 | 30 |
| 26 | | 1680 | 1380 | | 239 | | 733 | | 174 | 125 | | 31 |
| 172 | 613 | 784 | 1424 | 637 | 446 | 380 | 624 | 812 | 172 | 151 | 121 | MEAN |
| 422 | 1970 | 1760 | 1730 | 1390 | 1450 | 1100 | 888 | 3210 | 197 | 172 | 159 | MAX. |
| 26 | 22 | 280 | 1380 | 375 | 194 | 217 | 309 | 127 | 145 | 125 | 100 | MIN. |
| 10570 | 36480 | 48200 | 87570 | 35390 | 27420 | 22600 | 38370 | 48290 | 10590 | 9308 | 7198 | AC.FT. |

ATED
ECORD
ARGE MEASUREMENT OR
VATION OF NO FLOW
*

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 528 | 3270 | 11.53 | 6 | 10 | 0515 | 21 | 5.41 | 11 | 3 | 2200 | 382000 |

| LOCATION | | | MAXIMUM DISCHARGE OF RECORD | | | PERIOD OF RECORD | | DATUM OF GAGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TITUDE | 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 |
| 30 06 | 120 27 03 | NE17 5S 14E | 14500 | 17.10 | 1-7-65 | NOV 58-DATE | | 1958 | | 221.12 | USGS |

ation located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow gulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records ailable for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity versions are upstream from station.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B05155 | MERCED RIVER AT CRESSEY |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 212 | 265 | 695 | 1727 | 1444 | 420 | 370 | 883 | 746 | 185 | 150 * | 202 |
| 2 | 191 * | 265 | 699 | 1780 * | 1439 | 432 | 539 * | 867 * | 779 | 171 * | 141 | 198 |
| 3 | 181 | 260 | 681 * | 1493 | 1439 | 498 | 473 | 775 | 757 * | 165 | 139 | 187 |
| 4 | 189 | 248 | 681 | 1473 | 1434 | 615 | 386 | 691 | 746 | 161 | 148 | 183 * |
| 5 | 198 | 248 | 681 | 1498 | 958 | 1167 * | 361 | 646 | 738 | 161 | 163 | 177 |
| 6 | 217 | 248 | 684 | 1588 | 852 * | 1362 | 345 | 632 | 746 | 163 | 154 | 183 |
| 7 | 244 | 314 | 677 | 2037 | 840 | 1362 * | 337 | 632 | 802 | 175 | 143 | 208 |
| 8 | 441 | 476 | 681 | 1882 | 809 | 1187 | 343 | 670 | 2080 | 189 | 146 | 215 |
| 9 | 464 | 473 * | 677 | 1548 | 674 | 879 | 351 | 667 | 2927 | 200 | 154 | 206 |
| 10 | 492 | 480 | 681 | 1493 | 514 | 523 | 345 | 667 | 2967 * | 221 | 152 | 208 |
| 11 | 510 | 492 | 552 | 1478 | 489 | 489 | 329 | 660 | 1350 | 206 | 161 | 208 |
| 12 | 370 | 498 | 361 | 1488 | 709 | 794 | 356 | 653 | 903 | 212 | 171 | 191 |
| 12 | 286 | 483 | 317 | 1493 | 665 | 531 | 353 | 674 | 832 | 195 | 157 | 195 |
| 14 | 255 | 483 | 473 | 1473 | 608 | 397 | 345 | 653 | 1300 | 187 | 159 | 202 |
| 15 | 244 | 476 | 605 | 1463 | 605 | 375 | 329 | 642 | 1649 | 183 | 161 | 198 |
| 16 | 246 | 483 | 615 | 1459 | 545 | 361 | 314 | 639 * | 1060 | 171 | 177 | 195 |
| 17 | 255 | 685 | 618 | 1459 | 480 | 335 | 343 | 642 | 813 | 165 | 177 | 183 |
| 18 | 397 | 964 | 622 | 1463 | 461 | 340 * | 337 * | 667 | 670 | 179 | 189 | 185 |
| 19 | 501 | 1506 | 618 | 1508 | 575 | 359 | 319 | 688 | 389 | 181 | 195 | 177 |
| 20 | 514 | 1871 * | 615 | 1493 | 533 | 361 | 337 | 681 | 262 | 187 | 198 | 185 |
| 21 | 523 | 1551 | 629 | 1454 | 489 | 359 | 351 | 691 | 232 | 187 | 202 | 200 |
| 22 | 536 | 1088 | 656 | 1459 | 489 * | 335 | 356 | 706 | 208 | 183 | 185 | 206 |
| 22 | 555 | 956 | 635 | 1449 * | 476 | 311 | 345 | 520 | 210 | 181 | 173 | 208 |
| 24 | 565 | 931 | 635 | 1444 | 464 | 301 | 356 | 441 | 210 | 169 | 179 | 200 |
| 25 | 589 * | 931 | 629 | 1449 | 452 | 291 | 364 | 426 | 198 | 159 | 183 | 200 |
| 26 | 397 | 935 | 635 | 1449 | 449 | 282 | 382 | 426 | 189 | 146 | 185 | 187 |
| 27 | 533 | 927 * | 839 | 1454 | 446 | 262 | 923 | 435 | 181 | 154 | 187 | 183 |
| 28 | 555 | 735 | 1688 | 1449 | 423 | 301 * | 1086 | 409 | 175 | 161 | 189 | 189 |
| 29 | 392 | 660 | 1759 | 1449 | | 335 | 1064 | 403 | 173 | 173 | 187 | 210 |
| 20 | 304 | 656 | 1706 | 1439 | | 345 | 1018 | 657 | 175 | 157 | 191 | 215 |
| 21 | 279 | | 1670 | 1444 | | 351 | | 731 | | 157 | 208 | |
| MEAN | 372 | 686 | 765 | 1524 | 705 | 525 | 449 | 631 | 816 | 177 | 171 | 196 |
| MAX. | 565 | 1871 | 1759 | 2037 | 1444 | 1362 | 1086 | 883 | 2967 | 221 | 208 | 208 |
| MIN. | 181 | 248 | 317 | 1439 | 423 | 262 | 314 | 403 | 173 | 146 | 139 | 177 |
| AC. FT. | 22880 | 40840 | 47040 | 93690 | 39180 | 32250 | 26690 | 38820 | 48530 | 10880 | 10520 | 11670 |

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 |
| 584 | 3060 | 17.80 | 6 | 10 | 1800 | 135 | 10.73 | 8 | 7 | | 423000 |

| 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 25 28 | 120 39 47 | SW 9 6S 12E | 34400 | 22.67 | 12-4-50 | JUL 41-DATE | APR 41-JUL 41 | 1950 | 1962 | 96.24 | USCGS |
| | | | | 32.67a | 12-4-50 | | | 1962 | | 86.23 | USCGS |

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.

a Reflects present datum.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B00525 | MUSTANG CREEK NEAR BALLICO |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 * | 0.0 | 0.0 | 6.0 | | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 1 |
| 2 | 0.0 | 0.0 | 0.0 | 3.5 * | | 0.0 | 0.4 * | 0.0 * | 0.0 | 0.0 * | 0.0 * | 0.0 | 2 |
| 3 | 0.0 | 0.0 | 0.0 * | 1.6 | | 1.8 | 1.4 | 0.0 | 0.0 * | 0.0 | 0.1 | 0.0 | 3 |
| 4 | 0.0 | 0.0 | 0.0 | 2.3 | | 3.8 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 * | 4 |
| 5 | 0.0 | 0.0 | 0.0 | 3.5 | | 1.1 * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 |
| 6 | 0.0 | 0.0 | NR | 3.7 | | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6 |
| 7 | 1.4 | 0.0 | NR | 13 * | | 0.4 * | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 7 |
| 8 | 18 | 0.0 | NR | 9.3 | | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 8 |
| 9 | 5.4 | 0.0 * | NR | 3.2 | | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9 |
| 10 | 1.1 | 0.0 | NR | 1.5 | | 0.7 | 0.0 | 0.2 | 0.0 | 0.3 | 0.0 | 0.0 | 10 |
| 11 | 1.0 | 0.0 | NR | 1.0 | | 0.3 | 0.0 | 0.4 | 0.0 | 0.1 | 0.0 | 0.0 | 11 |
| 12 | 1.0 | 0.0 | NR | 1.4 | | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12 |
| 13 | 1.2 | 0.0 | NR | 1.4 | | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13 |
| 14 | 0.3 | 0.0 | NR | 0.8 | N | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14 |
| 15 | 0.3 | 0.0 | NR | 0.4 * | O | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |
| 16 | 0.0 * | 0.0 | NR | 0.3 | | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16 |
| 17 | 0.0 | 0.0 | NR | 0.1 | F | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 17 |
| 18 | 0.0 | 0.0 | NR | 0.1 | L | 0.0 * | 0.2 * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18 |
| 19 | 0.0 | 0.6 | NR | 0.4 | O | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19 |
| 20 | 0.0 | 0.6 * | 0.0 * | 0.4 | W | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 * | 0.0 | 20 |
| 21 | 0.0 | 0.6 | 0.0 | 0.2 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21 |
| 22 | 0.0 | 0.4 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22 |
| 23 | 0.0 | 0.1 | 0.4 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.2 | 23 |
| 24 | 0.0 | 0.1 | 0.3 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 24 |
| 25 | 0.0 | 0.1 | 0.3 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 25 |
| 26 | 0.0 | 0.1 | 0.3 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 26 |
| 27 | 0.0 | 0.0 | 56 | 0.0 | | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27 |
| 28 | 0.0 | 0.0 | 33 | 0.0 | | 0.1 * | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 28 |
| 29 | 0.0 | 0.0 | 7.9 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29 |
| 30 | 0.0 | 0.0 | 2.7 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 30 |
| 31 | 0.0 | | 1.3 | 0.0 | | 0.0 | | 0.0 | | 0.6 | 0.0 | | 31 |
| MEAN | 1.0 | 0.9 | 3.3 | 1.7 | | 0.4 | 0.3 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | MEAN |
| MAX. | 18 | 0.6 | 56 | 13 | | 3.8 | 2.6 | 0.4 | 0.4 | 2.3 | 0.3 | 0.4 | MAX. |
| MIN. | 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. | 59 | 5 | 203 | 107 | | 22 | 19 | 2 | 1 | 10 | 2 | 1 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.6 | 113 | 3.01 | 12 | 27 | 1600 | 0 | | 10 | 1 | | 431 |

| 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 29 58 | 120 39 48 | NW16 5S 12E | 281 | 5.63 | 1-21-69 | NOV 65 -DATE | | 1965 | | 0.00 | LOCAL |

Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map). Drainage area is 11 square miles.

a Discharge measurements and partial gage height records are available in DWR files.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B08735 | ORESTIMBA CREEK BELOW HIGHWAY 33 |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.4 | 0.0 | 0.0 | 0.0 | 1.3 | 40 * | 89 * | 17 | 7.6 | 16 | 26 | 10 |
| 2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 155 | 147 | 17 * | 13 | 17 | 20 | 3.3 |
| 3 | 0.0 * | 0.0 | 0.0 | 0.0 | 2.8 | 383 | 130 | 15 | 8.7 | 13 * | 14 | 4.3 |
| 4 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 207 | 118 | 14 | 4.6 | 9.7 | 13 | 5.8 |
| 5 | 0.0 | 0.0 | 0.0 | 52 | 2.7 | 117 | 53 | 13 | 7.1 | 11 | 12 * | 5.3 * |
| 6 | 0.0 | 0.0 | 0.0 | 91 | 3.1 | 91 | 51 | 14 | 29 | 14 | 13 | 5.3 |
| 7 | 2.7 | 0.0 | 0.0 | 119 * | 2.4 | 95 | 48 | 11 | 27 | 32 | 37 | 6.3 |
| 8 | 52 | 0.0 | 0.0 | 248 * | 1.8 | 94 | 41 | 32 | 52 | 56 | 27 | 1.7 |
| 9 | 31 | 0.3 | 0.0 | 116 | 3.0 | 21 | 16 | 15 | 89 | 40 | 18 | 2.3 |
| 10 | 47 | 0.0 | 0.0 | 52 | 3.1 | 27 | 34 | 18 | 53 * | 72 | 16 | 5.8 |
| 11 | 37 | 0.0 | 0.0 | 18 | 4.1 | 59 | 48 | 35 | 32 | 40 | 17 | 13 |
| 12 | 26 | 0.0 | 0.0 | 10 | 5.0 | 12 | 32 | 26 | 9.1 | 33 | 32 | 14 |
| 13 | 16 | 0.0 | 0.0 | 10 | 5.5 | 8.7 | 12 | 66 | 13 | 24 | 15 | 11 |
| 14 | 15 | 0.0 | 0.0 | 5.1 | 7.6 | 8.3 | 21 | 101 | 11 | 13 | 12 | 22 |
| 15 | 8.1 | 0.0 | 0.0 | 1.5 | 7.5 * | 8.1 | 25 | 73 | 13 | 16 | 13 | 60 |
| 16 | 3.6 | 0.0 | 0.0 | 0.1 | 5.4 | 8.1 | 4.8 | 19 | 13 | 13 | 26 | 28 |
| 17 | 3.0 | 0.0 | 0.0 | 0.0 | 5.0 | 19 | 5.9 * | 18 | 14 | 13 | 36 | 57 |
| 18 | 7.0 | 0.0 | 0.0 | 31 | 6.3 | 29 * | 24 | 89 | 45 | 14 | 44 | 53 |
| 19 | 8.1 | 0.0 | 0.0 | 20 | 4.3 | 21 | 62 | 31 | 33 | 17 | 46 | 76 |
| 20 | 0.3 | 0.0 | 0.0 | 17 | 4.9 | 7.2 | 25 | 16 | 8.4 | 13 | 19 | 46 |
| 21 | 0.0 | 0.0 | 0.0 | 15 | 5.6 | 7.7 | 60 | 12 | 25 | 14 | 12 | 101 |
| 22 | 0.0 | 0.0 | 0.0 | 13 | 14 | 40 | 76 | 7.6 | 7.1 | 34 | 7.5 | 95 |
| 23 | 0.0 | 0.0 | 0.0 | 11 | 4.3 | 36 | 37 | 7.1 | 9.3 | 15 | 10 | 85 |
| 24 | 0.0 | 0.0 | 0.0 | 8.7 | 4.0 | 21 | 50 | 16 | 10 | 15 | 8.8 | 24 |
| 25 | 0.0 | 0.1 | 0.0 | 6.9 | 3.9 | 36 | 25 | 14 | 15 | 12 | 11 | 10 |
| 26 | 0.0 | 0.0 | 0.0 | 5.5 | 4.1 | 18 | 14 | 22 | 44 | 13 | 21 | 12 |
| 27 | 0.0 | 0.1 | 0.0 | 4.1 | 4.4 | 57 | 15 | 22 | 12 | 16 | 21 | 24 |
| 28 | 0.0 | 0.1 | 60 | 3.1 | 4.7 | 122 | 17 | 17 | 14 | 16 | 10 | 29 |
| 29 | 0.0 | 0.1 | 19 | 2.1 | | 141 | 19 | 83 | 13 | 16 | 12 | 18 |
| 30 | 0.0 | 0.0 | 0.9 | 1.4 | | 33 | 17 | 40 | 14 | 29 | 14 | 28 |
| 21 | 0.0 | | 0.0 | 0.3 * | | 8.5 | | 8.5 | | 23 | 16 | |
| MEAN | 8.3 | 0.0 | 2.6 | 27.8 | 4.5 | 62.3 | 43.9 | 28.7 | 21.5 | 21.9 | 19.3 | 28.5 |
| MAX. | 52 | 0.3 | 60 | 248 | 14 | 383 | 147 | 101 | 89 | 72 | 46 | 101 |
| MIN. | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 7.2 | 4.8 | 7.1 | 4.6 | 9.7 | 7.5 | 1.7 |
| AC. FT. | 510 | 1 | 158 | 1709 | 250 | 3829 | 2612 | 1764 | 1281 | 1348 | 1189 | 1698 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 22.6 | 667 | 6.07 | 3 | 3 | 1145 | 0.0 | 0.84 | 10 | 1 | 0015 | 16350 |

| 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 22 42 | 121 03 30 | SE26 6S 8E | | | | 1959 to date | | | | | |

Station located 1.0 mile south of intersection of Crows Landing Road and Highway 33 and is 400 feet east of highway. During the summer months the flows are irrigation drainage. Records are available for a station located 0.6 mile upstream operated by USBR 1948 to 1959. Also, records are available for a station located 4.5 miles downstream operated by the Department of Water Resources 1957 to 1972. Maximum discharge of record on 2-1-63 estimated as 2,650 cfs at gage height 12.08 by extending the rating curve above 1,654 cfs.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07200 | SAN JOAQUIN RIVER AT PATTERSON BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 920 | 868 | 1250 | 2960 | 3140 | 1000 * | 1710 | 1700 | 1200 | 793 | 692 | 911 | 1 |
| 2 | 927 | 838 | 1250 | 2740 | 3140 | 1030 | 1820 | 1640 * | 1260 | 773 * | 694 | 895 | 2 |
| 3 | 946 * | 811 | 1260 | 2690 * | 3050 | 1230 | 1960 | 1560 | 1310 | 729 | 658 | 917 | 3 |
| 4 | 923 | 787 | 1270 * | 2620 | 2960 * | 1340 | 2390 | 1540 | 1300 | 737 | 665 | 876 | 4 |
| 5 | 898 | 768 | 1290 | 2480 | 2760 | 1590 | 3230 * | 1540 | 1250 | 734 | 667 * | 849 * | 5 |
| 6 | 876 | 750 | 1270 | 2480 | 2410 | 2310 | 3610 | 1520 | 1190 * | 733 | 657 | 880 | 6 |
| 7 | 962 | 742 | 1240 | 2620 | 2050 | 2980 | 3530 | 1530 | 1220 | 735 | 662 | 853 | 7 |
| 8 | 1190 | 756 | 1200 | 2980 | 1900 | 3040 | 3120 | 1500 | 1260 | 806 | 650 | 828 | 8 |
| 9 | 1250 | 867 | 1170 | 3440 | 1770 | 2690 | 2630 | 1450 | 1580 | 876 | 677 | 836 | 9 |
| 10 | 1370 | 966 | 1150 | 3690 | 1630 | 2670 | 2320 | 1370 | 2370 | 909 | 686 | 849 | 10 |
| 11 | 1390 | 1000 | 1120 | 3760 | 1480 | 2480 | 2210 | 1350 | 2770 | 889 | 701 | 872 | 11 |
| 12 | 1330 | 1010 | 1100 | 3630 | 1400 | 2280 | 2030 | 1390 | 2490 | 934 | 703 | 864 | 12 |
| 13 | 1220 | 1020 * | 1020 | 3320 | 1430 | 2150 | 1950 | 1400 | 1780 | 1000 | 675 | 807 | 13 |
| 14 | 1160 | 1020 | 961 | 3050 | 1440 | 1920 | 1800 | 1350 | 1550 | 1010 | 701 | 801 | 14 |
| 15 | 1120 | 1000 | 993 | 2870 | 1380 * | 1570 | 1640 | 1350 | 1620 | 951 | 703 | 813 | 15 |
| 16 | 1050 | 980 | 1090 | 2740 * | 1350 | 1410 | 1450 | 1280 | 2010 | 884 | 715 | 837 | 16 |
| 17 | 966 | 995 | 1090 | 2660 | 1340 | 1340 | 1370 * | 1210 * | 1940 | 816 | 711 | 853 | 17 |
| 18 | 920 | 1020 | 1070 | 2610 | 1260 | 1310 * | 1330 | 1160 | 1620 | 752 | 745 | 888 | 18 |
| 19 | 926 | 1160 | 1070 | 2530 | 1220 | 1270 | 1320 | 1250 | 1530 | 728 | 792 | 913 | 19 |
| 20 | 983 | 1370 | 1060 | 2600 | 1170 | 1230 | 1260 | 1330 | 1380 | 703 | 804 | 924 | 20 |
| 21 | 997 | 1770 | 1050 | 2930 | 1170 | 1190 | 1280 | 1290 | 1190 | 711 | 762 | 914 | 21 |
| 22 | 1010 | 1880 | 1070 | 3160 | 1130 | 1190 | 1310 | 1330 | 1060 | 735 | 769 | 920 | 22 |
| 23 | 1020 | 1680 | 1150 | 3310 | 1070 | 1190 | 1280 | 1300 | 1010 | 705 | 778 | 981 | 23 |
| 24 | 1020 | 1470 | 1260 | 3420 | 1040 | 1180 | 1280 | 1260 | 1000 | 665 | 783 | 940 | 24 |
| 25 | 1020 | 1380 | 1270 | 3490 | 1040 | 1170 | 1280 | 1170 | 923 | 676 | 809 | 896 | 25 |
| 26 | 1030 | 1370 | 1220 | 3620 | 1020 | 1170 | 1240 | 1160 | 914 | 664 | 845 | 904 | 26 |
| 27 | 988 | 1390 | 1250 | 3440 | 1020 | 1190 | 1260 | 1130 | 883 | 641 | 804 | 915 | 27 |
| 28 | 970 | 1390 | 1490 | 3300 | 1000 | 1340 | 1420 | 1100 | 823 | 649 | 822 | 890 | 28 |
| 29 | 995 | 1350 | 2210 | 3250 | | 1460 | 1630 | 1080 | 805 | 704 | 829 | 891 | 29 |
| 30 | 989 | 1260 | 2860 | 3190 | | 1590 | 1690 | 1060 | 813 | 674 | 825 | 963 | 30 |
| 31 | 914 | | 3070 | 3140 | | 1590 | | 1100 | | 666 | 861 | | 31 |
| MEAN | 1041 | 1122 | 1317 | 3055 | 1670 | 1648 | 1878 | 1335 | 1402 | 774 | 737 | 883 | MEAN |
| MAX. | 1390 | 1880 | 3070 | 3760 | 3140 | 3040 | 3610 | 1700 | 2770 | 1010 | 861 | 981 | MAX. |
| MIN. | 876 | 742 | 961 | 2480 | 1000 | 1000 | 1240 | 1060 | 805 | 641 | 650 | 801 | MIN. |
| AC. FT. | 64030 | 66780 | 80970 | 187900 | 92770 | 101400 | 111800 | 82120 | 83410 | 47570 | 45310 | 52520 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1404 | 3770 | 39.64 | 1 | 11 | 0945 | 625 | 32.78 | 7 | 27 | 1615 | 1016000 |

| LOCATION | | | MAXIMUM DISCHARGE | | | PERIOD OF RECORD | | DATUM OF GAGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LATITUDE | LONGITUDE | 1/4 SEC. T. & R. M.D.B.&M | DF RECORD CFS | DF RECORD GAGE HT. | DF RECORD DATE | DISCHARGE | GAGE HEIGHT ONLY | PERIOD FROM | PERIOD TO | ZERO ON GAGE | REF. DATUM |
| 37 29 52 | 121 04 52 | SW15 5S 8E | | 54.0 | 6-13-38 | | APR 38-SEP 66 | 1938 | 1959 | 0.00 | USED |
| | | | | 50.47a | 6-13-38 | OCT 69-DATE | | 1959 | | 0.00 | USCGS |
| | | | 9,600b | 46.12 | 2-16-73 | | | 1959 | | 3.53 | USED |

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.

a Reflects present datum.
b Maximum discharge since station was rated in October 1969.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B04150 | TUOLUMNE RIVER AT HICKMAN BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 216 | 2070 | 498 | 504 | 2200 | 749 | 405 | 171 | 113 | 80 * | 121 |
| 2 | 768 | 1520 | 440 | 854 | 1580 | 906 | 354 * | 112 | 111 | 130 | 244 * |
| 3 | 1510 * | 1360 | 429 | 2470 | 901 | 607 | 228 | 99 * | 101 | 80 | 395 |
| 4 | 3840 | 1110 | 470 * | 3090 | 910 * | 589 | 184 | 99 | 260 | 151 | 133 |
| 5 | 795 | 1020 | 464 | 2750 | 1970 | 858 | 181 | 100 | 312 | 81 | 112 |
| 6 | 665 | 944 | 464 | 1970 | 2050 | 1260 | 179 | 99 | 257 | 82 | 234 |
| 7 | 789 | 546 | 514 | 1730 | 1880 | 1550 * | 176 | 96 | 287 * | 78 | 387 |
| 8 | 366 | 501 * | 481 | 2950 | 1720 | 1740 | 173 | 217 | 116 | 73 | 263 |
| 9 | 372 | 487 | 428 | 2740 | 1350 | 1100 | 178 | 248 | 102 | 154 | 127 |
| 10 | 626 | 487 | 425 | 2790 | 846 | 614 | 176 | 119 | 97 | 112 | 110 |
| 11 | 624 | 459 | 473 | 2520 * | 789 | 659 | 174 | 106 | 318 | 78 | 101 |
| 12 | 619 | 468 | 631 | 1790 | 1690 | 886 | 175 | 103 | 207 | 76 | 98 |
| 13 | 612 | 513 | 619 | 858 | 1880 | 878 | 173 | 103 | 149 | 76 | 95 |
| 14 | 618 | 486 | 512 | 949 | 1860 | 901 | 171 | 98 | 100 | 78 | 604 |
| 15 | 415 | 481 | 472 | 2030 | 1740 | 613 | 171 | 94 | 86 | 80 | 721 |
| 16 | 1310 | 483 | 384 | 2020 | 1290 | 595 | 172 | 92 | 84 | 76 | 737 |
| 17 | 2250 | 492 | 315 | 2000 | 789 | 532 | 171 | 95 | 85 | 79 | 718 |
| 18 | 2300 | 466 | 365 | 1850 | 364 | 461 | 192 | 97 | 81 | 84 | 706 |
| 19 | 2140 | 457 | 365 | 1480 | 468 | 545 | 190 | 100 | 80 | 221 | 561 |
| 20 | 1560 | 485 | 442 | 828 | 629 | 524 | 163 | 100 | 78 | 340 | 539 * |
| 21 | 921 | 483 | 803 | 1010 | 748 * | 385 | 166 | 95 | 74 | 148 | 608 |
| 22 | 348 | 479 | 729 | 2120 | 844 | 374 | 167 | 96 | 78 | 105 | 656 |
| 23 | 610 | 438 | 430 | 2050 | 650 | 375 | 166 | 96 | 78 | 310 | 708 |
| 24 | 1680 * | 481 | 338 | 2130 | 492 | 372 | 168 | 151 | 72 | 398 | 728 |
| 25 | 1850 | 443 | 356 | 2120 | 429 | 443 | 170 | 120 | 64 | 491 | 639 |
| 26 | 2310 | 444 | 364 | 1720 | 685 | 488 | 168 | 112 | 67 | 529 | 669 |
| 27 | 1930 | 474 | 886 | 986 | 611 | 461 | 169 | 105 | 65 | 255 | 709 |
| 28 | 1300 | 482 | 858 | 1100 | 573 | 534 | 171 | 102 | 63 | 126 | 644 |
| 29 | 1190 | 473 | 516 | 2210 | | 381 | 169 | 98 | 184 | 109 | 621 |
| 30 | 2370 | 471 | 385 | 2220 | | 381 | 171 | 97 | 202 | 101 | 619 |
| 31 | 2360 | | 370 | 2320 | | 379 | | 94 | | 118 | 605 |
| MEAN | 1267 | 650 | 491 | 1876 | 1141 | 681 | 189 | 113 | 132 | 158 | 458 |
| MAX. | 3840 | 2070 | 886 | 3090 | 2200 | 1740 | 405 | 248 | 318 | 529 | 737 |
| MIN. | 216 | 438 | 315 | 504 | 364 | 372 | 163 | 92 | 63 | 73 | 95 |
| AC. FT. | 77880 | 38680 | 30200 | 115400 | 63350 | 41890 | 11250 | 6970 | 7876 | 9717 | 28190 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 697 | 4670 | 74.37 | 1 | 4 | 0330 | 59 | 69.56 | 6 | 28 | 2200 |

| 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 |
| 37 38 10 | 120 45 14 | NW34 3S 11E | 59000 | 96.2 | 12-8-50 | JUL 32-OCT 35<br>JAN 37-MAR 37<br>JUL 37-FEB 38<br>JUL 38-DEC 38<br>MAR 39-DATE | | 1932 | | -1.13 |

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs a powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immedia upstream of the new Hickman-Waterford road bridge. Drainage area is 1,655 square miles.

BLE B-3 (Cont.)

## MEAN DISCHARGE

(CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B04130 | DRY CREEK NEAR MODESTO |

| OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | 19 | 139 | 29 | 33 | 101 * | 70 | 93 | 73 | 74 * | 65 | 1 |
| | 14 * | 22 | 383 | 28 | 573 | 901 | 72 | 91 | 80 | 78 | 68 | 2 |
| | 13 | 22 | 168 | 25 | 962 | 719 | 82 | 93 | 81 * | 70 | 86 | 3 |
| | 13 | 24 | 104 | 24 | 1030 * | 213 | 92 | 93 | 81 | 89 | 79 | 4 |
| 75 * | 14 | 93 * | 87 | 23 * | 374 | 134 | 82 | 85 * | 79 | 86 | 68 | 5 |
| 71 | 17 | 131 | 144 | 22 | 157 | 101 | 98 | 76 | 74 | 78 | 101 * | 6 |
| 87 | 16 | 126 | 742 | 21 | 118 | 88 | 90 * | 76 | 72 | 69 | 165 | 7 |
| 286 | 14 | 125 | 549 * | 21 | 141 | 77 | 75 | 74 | 73 | 72 | 168 | 8 |
| 226 | 14 | 122 | 263 | 20 | 464 | 69 | 79 | 84 | 94 | 72 | 163 | 9 |
| 99 | 12 | 122 | 144 | 20 | 174 | 78 | 85 | 77 | 148 | 59 | 167 | 10 |
| 56 | 12 | 123 | 107 * | 18 | 122 | 65 | 81 | 73 | 131 | 60 | 195 | 11 |
| 39 | 12 | 144 | 107 | 17 | 100 | 66 | 82 | 81 | 113 | 57 | 207 | 12 |
| 32 | 13 | 151 | 153 | 16 | 86 | 60 | 94 | 86 | 116 | 63 | 196 | 12 |
| 29 | 13 | 149 | 121 | 17 | 77 * | 52 | 90 | 84 | 108 | 73 | 226 | 14 |
| 28 | 15 | 149 | 83 * | 17 | 72 | 51 | 87 | 80 | 117 | 83 | 219 | 15 |
| 28 | 24 | 149 | 70 | 17 | 66 | 49 * | 84 | 77 | 114 | 78 | 214 | 16 |
| 24 | 20 | 149 | 63 | 18 | 63 | 58 | 93 | 76 | 100 | 64 | 204 | 17 |
| 23 | 17 | 165 | 59 | 19 | 61 | 57 | 75 | 82 | 88 | 73 | 212 | 18 |
| 24 | 15 | 165 | 95 | 20 * | 58 | 70 | 81 | 93 | 86 | 70 | 209 | 19 |
| 23 | 14 | 158 | 131 | 18 | 55 | 69 | 102 | 104 | 85 | 72 | 191 | 20 |
| 21 | 12 | 139 | 88 | 17 | 52 | 54 | 110 * | 94 | 72 | 62 | 204 | 21 |
| 19 | 11 | 54 | 70 | 19 | 49 | 52 | 91 | 103 | 73 | 62 | 200 | 22 |
| 19 | 10 | 161 | 60 | 25 | 47 | 60 | 89 | 105 | 81 | 68 | 187 | 23 |
| 19 | 9.5 | 114 | 55 | 37 | 45 | 82 | 88 | 96 | 76 | 69 | 158 | 24 |
| 24 | 9.1 | 62 | 49 | 43 | 46 | 94 | 83 | 83 | 80 | 75 | 131 | 25 |
| 26 | 10 | 45 | 44 | 42 | 56 | 92 | 83 | 88 | 84 | 80 | 95 | 26 |
| 22 | 11 | 279 | 40 | 41 | 50 | 84 | 85 | 77 | 81 | 73 | 102 | 27 |
| 20 | 7.9 | 1850 * | 37 | 35 * | 64 | 80 | 82 | 74 | 73 | 72 | 96 | 28 |
| 22 | 6.3 | 992 | 36 | | 67 | 78 | 105 | 87 | 77 | 77 | 97 | 29 |
| 19 | 15 | 298 | 32 | | 84 | 74 | 95 | 73 | 80 | 68 | 98 | 30 |
| 18 | | 210 | 31 | | 84 | | 86 | | 79 | 64 | | 31 |
| 53.2 | 13.3 | 210 | 137 | 23.9 | 175 | 128 | 86.8 | 85.0 | 89.3 | 71.3 | 152 | MEAN |
| 286 | 24 | 1850 | 742 | 43 | 1030 | 901 | 110 | 105 | 148 | 89 | 226 | MAX. |
| 18 | 6.3 | 19 | 31 | 16 | 33 | 49 | 70 | 73 | 72 | 57 | 65 | MIN. |
| 3273 | 793 | 12920 | 8438 | 1327 | 10770 | 7593 | 5338 | 5073 | 5492 | 4383 | 9066 | AC.FT. |

STIMATED
O RECORD
ISCHARGE MEASUREMENT OR
BSERVATION OF NO FLOW
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 103 | 2070 | 79.72 | 12 | 28 | 1730 | 6.3 | 67.61 | 11 | 29 | 0230 | 74460 |

| 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 |
| 7 39 26 | 120 55 19 | SE24 3S 9E | 7710 | 88.04 | 12-23-55 | MAR 41-DATE | | 1941 | | 0.00 | USCGS |

tation located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. une 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-odesto Irrigation District cooperative station. Drainage area is 192.3 square miles. There are no upstream mpairments.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B04105 | TUOLUMNE RIVER AT TUOLUMNE CITY |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 303 | 1890 | 700 E | 813 | 1870 * | 746 | 903 * | 363 | 277 | 407 | 272 * | 800 |
| 2 | 339 | 1680 | 650 E | 922 | 1760 | 946 | 1090 | 358 * | 308 | 315 * | 270 | 787 |
| 3 | 564 | 1420 | 640 E | 1340 | 1390 | 1840 | 1870 | 328 | 328 | 308 | 344 | 797 |
| 4 | 968 | 1280 | 660 # | 2300 * | 939 | 1810 | 977 | 323 | 328 | 292 | 447 | 835 |
| 5 | 1710 * | 1140 | 702 | 2630 | 1040 | 1530 | 725 | 323 | 421 | 358 | 368 | 907 |
| 6 | 1040 | 1100 | 763 | 2380 | 1560 | 1490 * | 632 | 328 | 482 * | 334 | 318 | 899 |
| 7 | 932 | 994 | 780 | 2000 | 1590 | 1570 | 553 | 326 | 456 | 313 | 366 | 991 |
| 8 | 1070 | 749 | 807 | 2290 | 1500 | 1760 | 483 | 315 | 473 | 315 | 464 | 1070 |
| 9 | 885 | 672 | 783 | 2430 | 1420 | 1900 | 442 | 374 | 366 | 326 | 415 | 1010 |
| 10 | 756 | 640 | 746 | 2240 | 1190 | 1450 | 432 | 413 | 339 | 453 | 310 | 983 |
| 11 | 794 | 617 | 746 | 2260 | 849 | 1130 | 414 | 336 | 347 | 427 | 313 | 1180 |
| 12 | 719 | 605 | 790 | 2140 | 922 | 1190 | 415 | 310 | 491 | 344 | 303 | 1290 |
| 13 | 739 | 592 * | 910 | 1680 | 1380 | 1280 | 427 | 321 | 450 * | 331 | 263 | 1210 |
| 14 | 729 | 600 E | 914 | 1090 | 1500 | 1300 | 421 | 305 | 401 | 318 | 265 | 1170 |
| 15 | 722 | 590 E | 839 | 1280 | 1520 | 1200 * | 394 | 285 | 366 | 315 | 530 | 1080 |
| 16 | 617 | 610 E | 804 | 1840 | 1470 | 994 | 397 | 270 | 347 | 313 | 729 | 1030 |
| 17 | 1070 | 620 E | 739 * | 1900 | 1200 | 936 | 407 * | 255 * | 315 | 295 | 766 | 1120 |
| 18 | 1590 | 600 E | 699 | 1900 | 874 | 853 | 418 | 255 | 290 | 280 | 790 | 1750 |
| 19 | 1700 | 600 E | 729 | 1900 | 640 | 769 | 433 | 270 | 315 | 263 | 811 | 2180 |
| 20 | 1640 | 620 E | 732 | 1620 | 672 * | 797 | 456 | 303 | 323 | 336 | 725 | 2340 |
| 21 | 1330 | 620 E | 825 | 1120 | 769 | 756 | 418 | 308 | 334 | 435 | 685 | 2370 |
| 22 | 954 | 620 E | 1050 | 1390 | 864 | 679 | 399 | 292 | 315 | 342 | 759 | 2320 |
| 23 | 636 | 600 E | 932 | 1960 | 885 | 646 | 396 | 246 | 323 | 285 | 790 | 2100 |
| 24 | 735 | 630 E | 842 | 1950 | 797 | 653 | 427 | 270 | 328 | 410 | 811 | 1940 |
| 25 | 1310 | 620 E | 709 | 1950 | 682 | 646 | 447 | 297 | 292 | 473 | 846 | 1770 |
| 26 | 1530 | 620 E | 679 | 1970 | 636 | 715 | 413 | 323 | 290 | 564 | 780 | 1770 |
| 27 | 1800 | 640 E | 821 | 1620 | 773 | 735 | 413 | 321 | 300 | 564 | 790 | 1850 |
| 28 | 1590 | 640 E | 1870 | 1080 | 769 | 842 | 415 | 308 | 287 | 438 | 839 | 1890 |
| 29 | 1240 | 650 E | 2600 | 1270 | | 921 | 407 | 321 | 272 | 366 | 825 | 2000 |
| 30 | 1280 | 650 E | 1300 | 1790 | | 853 | 379 | 323 | 358 | 326 | 814 | 1970 |
| 31 | 1830 | | 901 | 1860 | | 871 | | 282 | | 282 | 800 | |
| MEAN | 1068 | 797 E | 892 | 1771 | 1124 | 1091 | 547 | 311 | 351 | 359 | 574 | 1447 |
| MAX. | 1830 | 1890 | 2600 | 2630 | 1870 | 1900 | 1870 | 413 | 491 | 564 | 846 | 2370 |
| MIN. | 303 | 590 E | 640 E | 813 | 636 | 646 | 379 | 246 | 272 | 263 | 263 | 787 |
| AC. FT. | 65700 | 47420 E | 54870 | 108900 | 62400 | 67060 | 32530 | 19140 | 20870 | 22070 | 35320 | 861 |

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 FT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 861 | 2690 | 30.16 | 1 | 8 | 2200 | 239 | 23.12 | 5 | 23 | 2100 | 6224 |

| 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 | REFERENCE DATUM |
| 37 36 12 | 121 07 50 | NW 7 4S 8E | | 46.65 | 12- 9-50 | 1930-DATE | | | 1959 | 0.00 | USGS |
| | | | | 43.15a | 12- 9-50 | | | 1960 | | 0.00 | USGS |
| | | | 37900b | 42.86 | 1-27-69 | | | 1960 | | 3.50 | USGS |

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. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.
b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07040 | SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1480 | 2590 | 2060 | 3980 | 5200 * | 1730 | 2120 * | 1940 | 1240 | 1290 * | 941 * | 1740 | 1 |
| 2 | 1400 | 2540 | 2070 | 3970 | 5230 | 1880 | 2480 | 1990 | 1360 | 1190 | 950 | 1790 | 2 |
| 3 | 1570 | 2550 | 2050 | 4090 * | 4880 | 2620 | 3430 * | 1880 | 1630 | 1140 | 931 | 1760 | 3 |
| 4 | 1780 * | 2180 | 2030 * | 4950 | 4350 | 3130 | 3440 | 1830 | 1610 | 1100 | 1030 | 1750 | 4 |
| 5 | 2440 | 2050 | 2050 | 5350 | 4000 | 3090 | 3440 | 1830 | 1620 | 1170 | 1040 | 1740 | 5 |
| 6 | 2200 | 1990 | 2090 | 5300 | 4290 | 3360 * | 3860 | 1860 | 1600 * | 1130 | 973 | 1740 * | 6 |
| 7 | 1980 | 1960 | 2070 | 5160 | 4010 | 4230 | 4100 | 1890 | 1630 | 1110 | 973 | 1790 | 7 |
| 8 | 2290 | 1790 * | 2080 | 5350 | 3610 | 4790 | 3850 | 1800 * | 1720 | 1210 | 1070 | 1880 | 8 |
| 9 | 2300 | 1740 | 2050 | 6380 | 3370 | 4810 | 3440 | 1890 | 1870 | 1300 | 1100 | 1880 | 9 |
| 10 | 2200 | 1820 | 1990 | 6520 | 3080 | 4700 | 3110 | 1830 | 2300 | 1500 | 1060 | 1820 | 10 |
| 11 | 2280 | 1860 | 1950 | 6600 | 2660 | 3930 | 2780 | 1650 | 2780 | 1510 | 1090 | 1970 | 11 |
| 12 | 2240 | 1850 | 1960 | 6540 | 2320 | 3630 | 2520 | 1700 | 2930 | 1420 | 1120 | 2100 | 12 |
| 13 | 2190 | 1840 | 1980 | 5870 E | 2780 | 3600 | 2350 | 1850 | 2670 * | 1420 | 1060 | 2040 | 13 |
| 14 | 2120 | 1860 | 1960 | 4970 E | 2950 | 3360 | 2320 | 1760 | 2240 | 1450 | 1040 | 2000 | 14 |
| 15 | 2080 | 1840 | 1900 | 5730 E | 2970 | 3080 * | 2080 | 1660 | 2100 | 1370 | 1180 | 1970 | 15 |
| 16 | 1940 | 1810 | 2030 | 6710 E | 2880 | 2590 | 1790 | 1690 | 2320 | 1230 | 1360 * | 1980 | 16 |
| 17 | 2000 | 1810 | 2120 | 7300 E | 2710 | 2350 | 1610 | 1610 * | 2610 | 1170 | 1440 | 2020 | 17 |
| 18 | 2290 | 1830 | 2100 | 7050 E | 2370 | 2200 | 1640 * | 1430 | 2250 | 1080 | 1510 | 2330 | 18 |
| 19 | 2420 | 1840 | 2100 | 5730 E | 1990 | 1990 | 1720 | 1540 | 2080 | 1010 | 1560 | 2680 | 19 |
| 20 | 2470 | 1940 | 2100 | 4530 | 1880 * | 1860 | 1810 | 1700 | 1940 | 1020 | 1530 | 2870 | 20 |
| 21 | 2420 | 2160 | 2110 | 4340 | 1950 | 1780 | 1860 | 1780 | 1930 | 1120 | 1490 | 2940 | 21 |
| 22 | 2170 | 2360 | 2770 | 4360 * | 1940 | 1650 | 1700 | 1660 | 1640 | 1100 | 1470 | 2970 | 22 |
| 23 | 1960 | 2340 | 2300 | 5080 | 1950 | 1620 | 1780 | 1560 | 1500 | 978 | 1530 | 2960 | 23 |
| 24 | 1900 | 2170 | 2300 | 5300 | 1860 | 1560 | 1790 | 1580 | 1480 | 941 | 1550 | 2870 | 24 |
| 25 | 2230 | 2060 | 2240 | 5370 | 1750 | 1590 | 1860 | 1530 | 1400 | 1020 | 1630 | 2960 | 25 |
| 26 | 2400 | 2050 | 2190 | 5620 | 1600 | 1570 | 1770 | 1550 | 1290 | 1070 | 1650 | 3030 | 26 |
| 27 | 2570 | 2070 | 2260 | 5510 | 1750 | 1470 | 1720 | 1530 | 1320 | 1120 | 1630 | 3010 | 27 |
| 28 | 2550 | 2110 | 2810 * | 4520 | 1800 | 1670 | 1730 | 1440 | 1300 | 1040 | 1610 | 3020 | 28 |
| 29 | 2320 | 2130 | 4240 | 4540 | | 1990 | 1950 | 1290 | 1220 | 1030 | 1660 | 3010 | 29 |
| 30 | 2210 | 2070 | 4160 | 5150 | | 1980 | 2000 | 1250 | 1270 | 992 | 1640 | 3100 | 30 |
| 31 | 2550 | | 3980 | 5280 | | 2090 | | 1140 | | 936 | 1680 | | 31 |
| MEAN | 2160 | 2040 | 2330 | 5390 | 2930 | 2640 | 2400 | 1670 | 1830 | 1170 | 1310 | 2320 | MEAN |
| MAX. | 2570 | 2590 | 4240 | 7300 | 5230 | 4810 | 4100 | 1990 | 2930 | 1510 | 1680 | 3100 | MAX. |
| MIN. | 1400 | 1740 | 1900 | 3970 | 1600 | 1470 | 1610 | 1140 | 1220 | 936 | 931 | 1740 | MIN. |
| AC. FT. | 132800 | 121400 | 143000 | 331500 | 162900 | 162400 | 142900 | 102400 | 108800 | 71740 | 80330 | 138300 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2350 | 7300 | 21.29E | 1 | 17 | Daily E Mean | 899 | 14.19 | 8 | 3 | 0200 | 1698000 |

| 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 38 28 | 121 13 37 | SW29 3S 7E | 45,550 | 36.87 | 2-28-69 | JAN 50-MAR 52 | SEP 43-DEC 49 | 1943 | 1959 | 0.00 | USED |
| | | | | 38.31[a] | 1-27-69 | OCT 65-DATE | APR 52-SEP 65 | 1959 | | 0.00 | USCGS |
| | | | | | | | | 1959 | | 3.41 | USED |

Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.

a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1975 | B03175 | STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30 | 127 | 1060 | 2070 | 2710 * | 1400 | 4500 | 2650 | 4160 | 41 | 43 | 38 |
| 2 | 30 | 125 | 1000 | 1990 | 2430 | 2050 | 4970 * | 2450 | 4120 | 40 | 39 * | 41 |
| 2 | 30 | 123 | 995 | 1970 | 2450 | 1740 | 4210 | 2460 * | 3670 | 42 * | 38 | 39 |
| 4 | 29 | 125 | 1000 | 1970 | 2190 | 1520 | 4230 | 2430 | 3300 | 43 | 38 | 38 |
| 5 | 32 * | 127 | 999 * | 1980 | 1820 | 1390 | 4270 | 2420 | 3380 * | 44 | 42 | 35 |
| 6 | 41 | 134 | 1000 | 2260 | 1820 | 1240 | 4140 | 1550 | 3300 | 49 | 52 | 35 * |
| 7 | 48 | 139 | 981 | 2080 | 1820 | 1230 | 3850 | 2320 | 3470 | 53 | 55 | 37 |
| 8 | 162 | 125 | 954 | 2010 * | 1820 | 1400 | 3550 | 2710 | 3920 | 57 | 55 | 36 |
| 9 | 39 | 122 | 949 | 1980 | 1830 | 1330 | 3560 | 3660 | 3840 | 82 | 42 | 38 |
| 10 | 26 | 119 | 952 | 1960 | 1840 | 1320 | 3560 | 4330 | 2280 | 94 | 36 | 35 |
| 11 | 31 | 119 | 972 | 1970 | 1850 | 1310 | 3780 | 3670 | 1080 | 79 | 35 | 36 |
| 12 | 20 | 125 * | 968 | 2010 | 1860 | 1300 | 4150 | 3260 | 968 | 57 | 36 | 36 |
| 13 | 18 | 147 | 988 | 1990 | 1860 | 1300 | 4180 | 3470 | 1380 | 52 | 33 | 38 |
| 14 | 19 | 189 | 1280 | 1940 | 1860 | 1290 * | 4200 | 4290 | 844 | 50 | 32 | 37 |
| 15 | 21 | 210 | 1950 | 1910 | 1630 | 1330 | 4020 | 4310 | 1680 | 50 | 31 | 35 |
| 16 | 22 * | 205 | 1930 | 1860 | 1310 | 1400 | 3640 * | 4210 | 2170 | 52 | 33 | 38 |
| 17 | 24 | 206 | 1930 * | 2780 | 1310 | 1400 | 3540 | 4110 | 1880 | 50 | 35 | 46 |
| 18 | 346 | 217 | 1930 | 4680 | 1310 | 1570 | 3340 | 3710 | 1540 | 53 | 36 | 49 |
| 19 | 408 | 199 | 1930 | 4610 | 1320 | 1880 | 3870 | 3100 | 599 | 58 | 37 | 41 |
| 20 | 351 | 180 | 1930 | 4240 | 1400 | 1890 | 2580 | 2350 | 382 | 50 | 34 | 38 |
| 21 | 363 | 77 | 1960 | 4230 | 1590 * | 1890 | 2530 | 1180 * | 385 | 45 | 34 | 40 |
| 22 | 291 | 168 | 2040 | 3940 | 1600 | 1890 | 1930 | 481 | 389 | 42 | 32 | 46 |
| 23 | 48 | 196 | 1950 | 3970 * | 1600 | 1880 | 795 | 314 | 413 | 44 | 32 | 41 |
| 24 | 22 | 598 | 1940 | 4810 | 1600 | 1800 | 675 | 252 | 597 | 43 | 33 | 38 |
| 25 | 17 | 677 | 1940 | 4780 | 1590 | 2380 | 695 | 68 | 724 | 44 | 33 | 36 |
| 26 | 16 | 774 | 1950 | 4810 | 1520 | 3870 | 937 | 44 | 332 | 48 | 33 | 34 |
| 27 | 15 | 997 | 2460 | 4720 | 1400 | 3610 | 1990 | 464 | 138 | 45 | 35 | 35 |
| 28 | 14 | 995 | 2350 * | 4740 | 1390 * | 3380 | 2000 | 2540 | 62 | 47 | 40 | 41 |
| 29 | 14 | 994 | 2060 | 4230 | | 3450 | 1990 | 3500 | 48 | 45 | 39 | 39 |
| 30 | 35 | 987 | 2010 | 3060 | | 3920 | 2250 | 4440 | 45 | 48 | 36 | 38 |
| 31 | 142 | | 1980 | 2870 | | 4060 | | 4170 | | 44 | 38 | |
| MEAN | 87.2 | 318 | 1559 | 3046 | 1740 | 1981 | 3131 | 2610 | 1703 | 51.3 | 37.7 | 38.5 |
| MAX. | 408 | 997 | 2460 | 4810 | 2710 | 4060 | 4970 | 4440 | 4160 | 94 | 55 | 49 |
| MIN. | 14 | 77 | 949 | 1860 | 1310 | 1230 | 675 | 44 | 45 | 40 | 31 | 34 |
| AC. FT. | 5363 | 18900 | 95880 | 187300 | 96650 | 121800 | 186300 | 160500 | 101300 | 3156 | 2315 | 2289 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1356 | 5620 | 11.58 | 4 | 1 | 2400 | 13 | 1.23 | 10 | 28 | 0930 | 981800 |

| 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 DAT |
| 37 47 18 | 120 45 41 | SW 4 2S 11E | 62000 | 31.8 | 12-23-55 | JUN 28-DEC 39<br>APR 40-DATE | | | | 117.21 | USC& |

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.

TABLE B-3 (Cont.)

AILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B03115 | STANISLAUS RIVER AT KOETITZ RANCH |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 318 | 188 | 883 | 1890 | 2890 | 1490 | 4040 | 2340 | 4040 | 443 * | 329 * | 340 | 1 |
| 2 | 312 | 214 | 956 | 1940 | 2720 | 1560 | 4280 * | 2700 | 4120 | 395 | 309 | 391 | 2 |
| 3 | 331 | 218 | 955 | 1890 | 2450 | 2040 | 4920 * | 2590 | 4080 | 378 | 309 | 404 | 3 |
| 4 | 339 | 219 | 950 | 1890 | 2400 | 1890 * | 4870 | 2620 | 3900 | 377 | 339 | 327 | 4 |
| 5 | 354 * | 220 | 956 * | 1900 | 2210 * | 1690 | 4710 | 2620 | 3500 | 412 | 335 | 380 | 5 |
| 6 | 359 | 225 | 925 | 1930 | 1910 | 1630 | 4640 | 2650 | 3510 * | 437 | 326 | 402 | 6 |
| 7 | 376 | 222 | 924 | 2160 | 1850 | 1520 | 4540 | 2120 | 3470 | 433 | 271 | 351 | 7 |
| 8 | 457 | 216 | 913 | 2090 * | 1830 | 1500 | 4320 | 2400 * | 3520 | 420 | 256 | 373 | 8 |
| 9 | 414 | 212 * | 896 | 1990 | 1820 | 1590 | 4100 | 2740 | 3770 | 432 | 261 | 421 | 9 |
| 10 | 370 | 212 | 892 | 1920 | 1820 | 1640 | 4030 | 3450 | 3820 | 513 | 302 | 475 | 10 |
| 11 | 317 | 208 | 900 | 1890 | 1820 | 1690 | 3890 | 3950 | 2850 | 575 | 341 | 449 | 11 |
| 12 | 285 | 207 | 917 | 1900 | 1820 | 1640 | 3950 | 3830 | 1740 | 479 | 307 | 416 | 12 |
| 13 | 274 | 213 | 923 | 1950 | 1830 | 1570 | 4150 | 3520 | 1510 | 464 | 263 | 415 | 13 |
| 14 | 256 | 224 | 937 | 1900 | 1830 | 1570 * | 4200 | 3560 | 1710 | 433 | 290 | 389 | 14 |
| 15 | 246 | 244 | 1070 | 1850 | 1820 | 1500 | 4140 | 4000 | 1420 | 465 | 276 | 408 | 15 |
| 16 | 225 | 258 | 1520 | 1820 | 1670 | 1540 | 3990 | 4250 | 1930 | 397 | 273 | 395 | 16 |
| 17 | 204 | 268 | 1650 | 1790 | 1440 | 1580 | 3780 | 4260 | 2220 | 401 | 284 | 402 * | 17 |
| 18 | 191 | 275 | 1700 | 2270 | 1400 | 1600 | 3580 * | 4240 | 2140 | 391 | 283 | 400 | 18 |
| 19 | 212 | 277 | 1720 | 3560 | 1390 * | 1660 | 3480 | 4050 | 1810 | 359 | 296 * | 441 | 19 |
| 20 | 326 | 275 | 1730 | 4000 | 1380 | 1860 | 3580 | 3640 | 1150 | 375 | 282 | 489 | 20 |
| 21 | 346 | 273 | 1750 | 3920 | 1430 | 1860 | 3070 | 2950 | 885 | 383 | 289 | 438 | 21 |
| 22 | 352 | 251 | 1790 | 3840 | 1560 | 1890 | 2800 | 1940 | 815 | 395 | 268 | 390 | 22 |
| 23 | 357 | 229 | 1850 | 3760 | 1610 | 1870 | 2290 | 1290 | 829 | 363 | 231 | 430 | 23 |
| 24 | 288 | 252 | 1790 | 3610 | 1660 | 1830 | 1600 | 1100 | 827 | 325 | 268 | 410 | 24 |
| 25 | 231 | 363 | 1760 | 4080 | 1670 | 1790 | 1430 | 1010 | 902 | 310 | 297 | 388 | 25 |
| 26 | 204 | 514 | 1770 | 4270 | 1650 | 2110 | 1400 | 882 | 1020 | 271 | 295 | 433 | 26 |
| 27 | 190 | 594 | 1870 | 4360 | 1610 | 3190 | 1620 | 827 | 776 | 288 | 234 | 447 | 27 |
| 28 | 180 | 753 | 2420 * | 4350 | 1510 | 3470 | 2260 | 1080 | 632 | 311 | 235 | 512 | 28 |
| 29 | 175 | 816 | 2410 | 4360 | | 3480 | 2300 | 2360 | 521 | 312 | 279 | 577 | 29 |
| 30 | 169 | 845 | 2050 | 4210 | | 3460 | 2180 | 3100 | 456 | 310 | 304 | 583 | 30 |
| 31 | 166 | | 1930 | 3320 | | 3780 | | 3900 | | 308 | 325 | | 31 |
| MEAN | 285 | 316 | 1410 | 2794 | 1821 | 1984 | 3471 | 2773 | 2129 | 392 | 289 | 423 | MEAN |
| MAX. | 457 | 845 | 2420 | 4360 | 2890 | 3780 | 4920 | 4260 | 4120 | 575 | 341 | 583 | MAX. |
| MIN. | 166 | 188 | 883 | 1790 | 1380 | 1490 | 1400 | 827 | 456 | 271 | 231 | 327 | MIN. |
| AC. FT. | 17500 | 18810 | 86690 | 171800 | 101200 | 122000 | 206600 | 170500 | 126700 | 24110 | 17770 | 25140 | AC. FT. |

— ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
E — 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1504 | 5020 | 42.41 | 4 | 3 | 1645 | 163 | 26.99 | 10 | 30 | 1015 | 1089000 |

| 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 41 57 | 121 10 08 | SW 2 3S 7E | | 50.5a | 12-24-55 | OCT 62-DATE | MAR 50-SEP 62 | 1950 | 1962 | -0.63 | USC&GS |
| | | | | | | | | 1963 | 1969 | 0.37 | USC&GS |
| | | | | | | | | 1970 | | 0.00 | USC&GS |

Station located on left bank 9.35 miles upstream from 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. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,094 square miles.

a Water bypasses station by overflowing flood plain on right bank and discharge is not computed. Overflowing occurs at approximately 45 feet gage height.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07020 | SAN JOAQUIN RIVER NEAR VERNALIS |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1760 | 2960 | 2900 | 5830 | 8600 | 3420 | 6470 | 4210 | 4920 | 1840 | 1300 | 2170 |
| 2 | 1660 | 2910 | 2930 | 5760 | 8360 | 3460 | 6880 | 3910 | 5130 | 1700 | 1300 | 2300 |
| 3 | 1800 | 2580 | 2960 | 5770 | 7880 | 4510 | 7820 | 3890 | 5370 | 1600 | 1260 | 2260 |
| 4 | 2060 | 2400 | 2960 | 6360 | 7320 | 5070 | 8100 | 3970 | 5340 | 1570 | 1340 | 2220 |
| 5 | 2910 | 2240 | 2960 | 6800 | 6750 | 4900 | 7960 | 4080 | 5100 | 1630 | 1380 * | 2220 |
| 6 | 2900 | 2110 | 2990 | 6890 | 6670 | 4920 | 8350 | 4180 | 4930 | 1620 | 1310 | 2210 |
| 7 | 2450 | 2060 | 2990 | 6940 | 6350 | 5520 | 8530 | 3950 | 4930 | 1600 | 1260 | 2220 |
| 8 | 2900 | 1810 * | 3000 | 7070 * | 5910 | 6020 | 8300 | 3620 * | 4910 | 1700 | 1340 | 2360 |
| 9 | 3000 | 1700 | 2990 | 7830 | 5550 | 6240 | 7600 | 4080 | 5230 | 1760 * | 1370 | 2400 |
| 10 | 2820 | 1770 | 2910 * | 8110 | 5380 | 6190 | 7120 | 4510 | 5670 | 2040 | 1380 | 2280 * |
| 11 | 2830 | 1860 | 2870 | 8200 | 4930 | 5800 | 6650 * | 4960 | 5730 | 2160 | 1370 | 2390 |
| 12 | 2770 | 1870 | 2860 | 8290 | 4490 * | 5490 | 6400 | 5170 | 4880 | 2070 | 1430 | 2560 |
| 13 | 2650 | 1870 | 2910 | 7980 | 4670 | 5360 | 6380 | 5070 | 3970 | 2000 | 1320 | 2500 |
| 14 | 2520 | 1890 | 2920 | 7180 | 4970 | 5180 | 6430 | 4900 | 3750 | 2070 | 1290 | 2450 |
| 15 | 2430 | 1910 | 2860 | 6450 | 5070 | 4860 | 6250 | 5040 | 3310 | 1970 | 1380 | 2420 |
| 16 | 2230 * | 1920 | 3200 | 6740 | 4950 | 4380 | 5880 | 5390 | 3840 | 1740 | 1590 | 2400 |
| 17 | 2190 | 1930 | 3460 | 6770 | 4530 | 4200 | 5530 | 5440 | 4400 | 1610 | 1700 | 2420 |
| 18 | 2520 | 1960 | 3460 | 6840 | 4140 | 4090 | 5300 | 5350 | 4370 * | 1520 | 1820 | 2680 |
| 19 | 2740 | 1980 | 3500 | 7710 | 3670 | 3990 | 5290 | 5240 | 3890 | 1410 | 1880 | 3150 |
| 20 | 2900 | 2110 | 3520 | 8290 | 3500 | 4060 | 5290 | 5080 | 3360 | 1400 | 1840 | 3500 |
| 21 | 2950 | 2390 | 3550 | 8180 | 3540 | 4000 | 5110 | 4620 | 2800 | 1520 | 1810 | 3630 |
| 22 | 2620 | 2710 | 3780 | 8050 | 3670 | 3900 | 4580 | 3760 | 2500 | 1550 | 1740 | 3620 |
| 23 | 2340 | 2770 | 3910 | 8820 | 3760 | 3850 | 4230 | 3020 | 2360 | 1410 | 1810 | 3650 |
| 24 | 2180 | 2590 | 3910 | 8990 | 3730 | 3780 | 3570 | 2700 | 2400 | 1340 | 1820 | 3480 |
| 25 | 2450 | 2440 | 3840 | 9380 | 3650 | 3850 | 3340 | 2560 | 2330 | 1400 | 1970 | 3520 |
| 26 | 2700 | 2500 | 3770 | 9650 | 3500 | 3920 | 3180 | 2460 | 2350 | 1430 | 2050 | 3630 |
| 27 | 2910 | 2610 | 3870 | 9700 | 3550 | 4870 | 3100 | 2390 | 2220 | 1470 | 2000 | 3640 |
| 28 | 2950 | 2780 | 4730 | 9330 | 3530 | 5490 | 3650 | 2260 | 2070 | 1440 | 1910 | 3670 |
| 29 | 2610 | 2900 | 6420 | 8830 | | 5940 | 4040 | 3120 | 1900 | 1430 | 1990 | 3660 |
| 30 | 2370 | 2900 | 6320 | 9340 | | 5910 | 4170 | 3830 | 1840 | 1410 | 2020 | 3760 |
| 31 | 2820 | | 5930 | 9140 | | 6160 | | 4540 | | 1320 | 2080 | |
| MEAN | 2546 | 2281 | 3586 | 7781 | 5094 | 4817 | 5850 | 4106 | 3860 | 1636 | 1615 | 2846 |
| MAX. | 3000 | 2960 | 6420 | 9700 | 8600 | 6240 | 8530 | 5440 | 5730 | 2160 | 2080 | 3760 |
| MIN. | 1660 | 1700 | 2860 | 5760 | 3500 | 3420 | 3100 | 2260 | 1840 | 1320 | 1260 | 2170 |
| AC. FT. | 156600 | 135700 | 220500 | 478500 | 282900 | 296200 | 348100 | 252500 | 229700 | 100600 | 99290 | 169300 |

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 |
| 3826 | 9810 | 19.16 | 1 | 27 | 0700 | 1260 | | 8 | 3 | | 2770000 |

| 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 55 | | 79000 | 27.75 | 12- 9-50 | JUL 22-DEC 23 | | 1931 | 1959 | 8.4 | USED |
| | | | | 32.81a | 12- 9-50 | JAN 24-FEB 25 | | | | | |
| | | | 52600 | 34.55 | 1-27-69 | JUN 25-OCT 28 | | 1931 | 1959 | 5.06 | USCG |
| | | | | | | MAY 29-DATE | | 1959 | | 0.00 | USCG |

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, 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.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs. as water was bypassing the station through levee breaks upstream from station.

TABLE B-3 (Cont.)

AILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B71408 | MUSICK CREEK #2 NEAR SHAVER LAKE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | .045 E | 1.96 | .392 | .665 | 12.0 * | 17.2 E | 2.00 | .882 | .374 | .139 | .081 | 1 |
| 2 | | .045 * | .796 | .392 | .665 | 10.4 | 7.97 E | 2.00 | .882 | .347 | .120 | .081 | 2 |
| 3 | | .045 | .574 | .347 | .619 | 3.64 | 4.73 E | 2.00 | .796 | .347 | .120 | .030 | 3 |
| 4 | | .061 | .528 | .483 | .619 | 2.85 | 4.73 E | 1.85 | .710 | .301 | .139 | .028 | 4 |
| 5 | | .081 | .483 | .392 | .619 | 2.56 | 4.51 E | 1.85 | .796 | .301 | .100 | .025 | 5 |
| 6 | | .100 | .438 | .619 | .574 * | 2.71 | 4.29 E | 1.71 | .796 | .236 | .120 * | .036 | 6 |
| 7 | | .120 * | .438 * | .528 | .574 | 2.28 E | 3.86 E | 1.57 | .796 | .236 | .120 | .061 | 7 |
| 8 | | .120 | .347 | .392 | .574 | 1.48 E | 3.64 E | 1.40 | .710 | .236 * | .120 | .061 | 8 |
| 9 | | .139 | .301 | .392 | .574 | 1.23 E | 3.42 E | 1.40 | .665 | .256 | .120 | .013 | 9 |
| 10 | | .236 | .236 | .438 | .574 | 1.23 E | 2.99 E | 1.31 * | .710 | .301 | .120 | .040 | 10 |
| 11 | | .438 | .256 | .438 | .619 | 1.48 E | 2.99 E | 1.23 | .710 * | .301 | .120 | .045 | 11 |
| 12 | | 2.98 | .256 | .528 | .665 | 2.42 E | 2.99 E | 1.23 | .710 | .301 | .120 | .020 * | 12 |
| 13 | | .483 | .483 | .619 | .665 | 2.28 E | 2.85 | 1.14 | .665 | .236 | .120 | .015 | 13 |
| 14 | | .574 * | .438 | .619 | .619 | 2.71 E | 2.85 | 1.14 | .665 | .236 | .081 | .045 | 14 |
| 15 | | .438 | .347 | .796 | .619 | 3.21 E | 2.71 | 1.05 | .619 | .236 | .081 | .045 | 15 |
| 16 | | .483 | .301 | 1.40 | .665 | 3.64 E | 2.56 | .968 | .619 | .217 | .100 | .045 | 16 |
| 17 | | 3.59 | .256 | 2.85 | .665 | 3.64 E | 2.56 | .968 | .619 | .217 | .081 | .030 | 17 |
| 18 | | 3.97 | .236 | 2.85 | .665 | 4.08 E | 2.56 | 1.05 | .619 | .217 | .100 | .015 | 18 |
| 19 | | .796 | .236 | 1.48 | .710 | 4.08 E | 2.42 | 1.14 | .665 | .198 * | .081 | .026 | 19 |
| 20 | | .528 | .236 | 3.21 | .710 | 4.08 E | 2.42 | 1.14 | .665 | .198 | .081 | .039 | 20 |
| 21 | | .483 | .236 | 2.14 | .710 | 3.64 E | 2.28 | 1.05 | .574 | .198 | .081 | .081 | 21 |
| 22 | | .392 | .347 | 1.48 * | .710 | 3.21 E | 2.14 * | .968 * | .574 | .198 | .081 | .100 | 22 |
| 23 | | .347 | .301 | 1.23 | .710 | 3.21 E | 2.14 | .882 | .574 | .178 | .061 | .040 | 23 |
| 24 | | .347 | .301 | 1.05 | .710 | 3.21 E | 2.56 | .968 | .528 | .178 | .081 | .035 | 24 |
| 25 | | .256 | .256 | .968 | .796 | 2.99 E | 2.42 | .882 | .483 | .178 | .081 | .036 | 25 |
| 26 | | .256 * | .301 | .968 | .882 | 3.42 E | 2.42 | .796 | .438 | .178 | .081 | .061 | 26 |
| 27 | | .236 | 1.57 * | .796 | .968 | 8.28 E | 2.42 | .796 | .438 | .178 | .061 | .100 | 27 |
| 28 | | .256 | 1.23 | .796 | 1.05 | 9.14 # | 2.28 | .796 | .392 | .158 | .045 | .120 | 28 |
| 29 | | .256 | .796 | .665 | | 5.47 E | 2.28 | .796 | .392 | .139 | .045 | .100 | 29 |
| 30 | | .256 | .574 | .665 | | 10.0 E | 2.14 | .796 | .392 | .139 | .061 | .081 | 30 |
| 31 | | | .483 | .619 | | 4.94 E | | .796 | | .139 | .081 | | 31 |
| MEAN | | .612 | .501 | .985 | .686 | 4.18 E | 3.58 E | 1.22 | .636 | .230 | .095 | .051 | MEAN |
| MAX. | | 3.97 | 1.96 | 3.21 | 1.05 | 12.0 | 17.2 E | 2.0 | .882 | .347 | .139 | .120 | MAX. |
| MIN. | | .045 | .236 | .347 | .574 | 1.23 E | 2.14 | .796 | .392 | .139 | .045 | .013 | MIN. |
| AC. FT. | | 36.4 | 30.8 | 60.6 | 38.1 | 257 E | 213 E | 74.7 | 37.9 | 14.1 | 5.8 | 3.0 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.168 | 31.1 | 1.95 | 3 | 1 | 2230 | 0 | | | | | 771.4 |
| | 32.0 E | | 4 | 1 | | | | | | | |

| 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 5 12 | 119 20 35 | SW3 10 24 | | | | 11-2-73 | | 1973 | | | Assumed |

Station located 4.0 miles south of Shaver Lake on Highway 168 and 1.5 miles west on private road. Station operated under contract. Due to the importance of extreme low flows to contractor, the Department of Water Resources criteria of rounding values were not adhered to. Drainage area is 1.3 square miles.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B71406 | MUSICK CREEK #1 NEAR SHAVER LAKE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | .327 E | 5.39 | 2.20 | 2.20 | 28.6 ** | 29.7 | 7.30 | 2.20 | .635 | .173 | .062 | 1 |
| 2 | | .327 * | 2.00 | 2.00 | 2.00 | 28.2 | 23.5 | 6.52 | 2.00 | .635 | .173 | .062 | 2 |
| 3 | | .327 | 1.58 | 1.58 | 1.80 | 12.5 | 16.0 | 6.52 | 2.00 | .583 | .173 | .062 | 3 |
| 4 | | .327 | 1.35 | 1.69 | 1.80 | 10.1 | 14.1 | 6.32 | 1.80 | .583 | .224 | .047 | 4 |
| 5 | | .276 | 1.24 | 1.58 | 1.69 | 9.42 | 13.0 | 6.13 | 1.80 | .583 | .224 | .047 | 5 |
| 6 | | .378 | 1.13 | 3.19 | 1.58 * | 9.20 | 12.5 | 6.13 | 1.80 | .635 | .173 * | .031 | 6 |
| 7 | | .327 * | 1.13 * | 1.58 | 1.58 | 7.88 | 12.5 | 5.58 | 1.69 | .635 | .173 | .031 | 7 |
| 8 | | .276 | 1.13 | 2.00 | 1.47 | 7.49 | 11.8 | 5.23 | 1.58 | .686 * | .157 | .031 | 8 |
| 9 | | .276 | 1.02 | 2.00 | 1.47 | 7.10 | 12.0 | 5.06 | 1.47 | .686 | .141 | .031 | 9 |
| 10 | | .481 | .909 | 1.69 | 1.47 | 7.10 | 10.8 | 4.88 * | 1.35 | .909 | .157 | .031 | 10 |
| 11 | | .909 | .909 | 1.47 | 1.47 | 7.69 | 10.6 | 4.61 | 1.35 * | .797 | .157 | .031 | 11 |
| 12 | | 7.78 | 1.02 | 1.80 | 1.47 | 9.20 | 10.6 | 4.33 | 1.13 | .686 | .141 | .040 * | 12 |
| 13 | | 1.35 | 1.47 | 2.00 | 1.47 | 8.98 | 10.6 | 4.33 | 1.13 | .583 | .141 | .047 | 13 |
| 14 | | 1.47 * | 1.69 | 1.80 | 1.47 | 9.64 | 10.1 | 3.78 | 1.13 | .583 | .141 | .047 | 14 |
| 15 | | .909 | 1.24 | 2.40 | 1.47 | 10.3 | 9.86 | 3.78 | 1.13 | .583 | .141 | .031 | 15 |
| 16 | | .909 | 1.13 | 4.06 | 1.47 | 11.0 | 9.20 | 3.78 | 1.13 | .532 | .141 | .031 | 16 |
| 17 | | 10.0 | 1.13 | 7.30 | 1.47 | 11.0 | 8.98 | 4.06 | 1.24 | .583 | .141 | .015 | 17 |
| 18 | | 9.06 | 1.13 | 7.10 | 1.58 | 11.5 | 8.54 | 4.33 | 1.24 | .583 | .126 | .015 | 18 |
| 19 | | 2.59 | 1.02 | 6.91 | 1.58 | 11.5 | 7.88 | 4.33 | 1.24 | .532 * | .141 | .015 | 19 |
| 20 | | 2.00 | .909 | 7.10 | 1.58 | 11.5 | 7.30 | 4.06 | 1.24 | .481 | .126 | .015 | 20 |
| 21 | | 1.69 | 1.24 | 5.76 | 1.69 | 11.0 | 7.10 | 3.78 | 1.13 | .481 | .126 | .013 | 21 |
| 22 | | 1.47 | 1.47 | 4.33 * | 1.69 | 10.6 | 6.91 * | 3.39 * | 1.13 | .430 | .110 | .013 | 22 |
| 23 | | 1.24 | 1.35 | 4.33 | 1.58 | 10.6 | 7.10 | 3.39 | 1.02 | .430 | .078 | .012 | 23 |
| 24 | | 1.13 | 1.35 | 3.58 | 1.58 | 10.6 | 8.32 | 3.19 | .909 | .378 | .078 | .012 | 24 |
| 25 | | 1.02 | 1.35 | 3.39 | 1.58 | 10.3 | 7.49 | 2.90 | .797 | .327 | .078 | .012 | 25 |
| 26 | | 1.02 * | 1.47 | 3.19 | 1.69 | 11.0 | 7.69 | 2.79 | .909 | .276 | .062 | .013 | 26 |
| 27 | | .909 | 6.71 * | 2.40 | 1.69 | 16.9 | 8.10 | 2.59 | .797 | .276 | .062 | .013 | 27 |
| 28 | | .909 | 5.06 | 2.40 | 1.69 | 19.3 * | 8.10 | 2.59 | .686 | .276 | .062 | .015 | 28 |
| 29 | | .909 | 3.39 | 2.40 | | 15.5 | 7.88 | 2.59 | .635 | .276 | .062 | .013 | 29 |
| 30 | | .909 | 2.79 | 2.40 | | 19.3 | 7.88 | 2.59 | .635 | .276 | .062 | .013 | 30 |
| 31 | | | 2.40 | 2.20 | | 14.9 | | 2.40 | | .276 | .078 | | 31 |
| MEAN | | 1.71 | 1.84 | 3.16 | 1.62 | 12.3 | 10.9 | 4.30 | 1.28 | 0.523 | 0.130 | 0.028 | MEAN |
| MAX. | | 10.0 | 6.71 | 7.30 | 2.20 | 28.6 | 29.7 | 7.3 | 2.20 | .909 | .224 | 0.062 | MAX |
| MIN. | | 0.276 | 0.909 | 1.47 | 1.47 | 7.10 | 6.91 | 2.4 | .64 | .276 | .062 | 0.012 | MIN. |
| AC. FT. | | 102 | 113 | 194 | 89.8 | 754 | 647 | 264 | 76.0 | 32.2 | 8.0 | 1.7 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.44 | 56.4 | 2.25 | 3 | 1 | 2330 | 0.010 | 0.30 | 9 | 25 | | 2281.7 |
| | | 2.24 | 4 | 1 | 2145 | | | | | | |

| 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 5 34 | 119 19 55 | SW2 10 24 | | | | 11-2-73 | | 1973 | | | Assumed |

Station located 4.0 miles south of Shaver Lake on Highway 168 and 2.5 miles west on private road. Station operated under contract with Fresno County. Due to the importance of extreme low flows to contractor, the Department of Water Resources criteria of rounding values were not adhered to. Drainage area is 1.9 square miles.

TABLE B-3 (Cont.)

AILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C01120 | SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2 |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | 0.0 | 24 | 50 | 0.0 | 105 | 66 | 44 | 21 | 0.0 | 1 |
| 2 | | | | 0.0 | 0.0 | 37 | 13 | 99 | 73 | 21 | 21 | 14 | 2 |
| 3 | | | | 0.0 | 0.0 | 31 | 20 | 96 | 74 | 39 | 15 | 20 | 3 |
| 4 | | | | 18 | 0.0 | 31 | 20 | 43 | 68 | 35 | 6 | 21 | 4 |
| 5 | | | | 35 | 0.0 | 26 | 20 | 21 | 63 | 22 | 6 | 20 | 5 |
| 6 | | | | 35 | 0.0 | 18 | 20 | 21 | 63 | 37 | 6 | 0.0 | 6 |
| 7 | | | | 34 | 0.0 | 26 | 20 | 26 | 68 | 47 | 6 | 0.0 | 7 |
| 8 | | | | 0.0 | 0.0 | 31 | 7 | 37 | 86 | 50 | 16 | 0.0 | 8 |
| 9 | | | | 20 | 0.0 | 31 | 0.0 | 41 | 88 | 50 | 63 | 0.0 | 9 |
| 10 | | | | 35 | 0.0 | 35 | 0.0 | 61 | 84 | 43 | 99 | 0.0 | 10 |
| 11 | | | | 35 | 0.0 | 18 | 0.0 | 22 | 102 | 29 | 99 | 17 | 11 |
| 12 | | | | 18 | 0.0 | 0.0 | 39 | 0.0 | 122 | 31 | 90 | 26 | 12 |
| 12 | N | N | N | 0.0 | 0.0 | 0.0 | 59 | 0.0 | 128 | 31 | 50 | 25 | 13 |
| 14 | O | O | O | 0.0 | 0.0 | 0.0 | 59 | 0.0 | 134 | 31 | 35 | 26 | 14 |
| 15 | | | | 0.0 | 0.0 | 0.0 | 57 | 0.0 | 134 | 31 | 33 | 25 | 15 |
| 16 | F | F | F | 0.0 | 0.0 | 0.0 | 56 | 0.0 | 134 | 31 | 37 | 26 | 16 |
| 17 | L | L | L | 0.0 | 0.0 | 0.0 | 61 | 0.0 | 140 | 21 | 47 | 25 | 17 |
| 18 | O | O | O | 8 | 17 | 0.0 | 45 | 0.0 | 86 | 0.0 | 43 | 26 | 18 |
| 19 | W | W | W | 15 | 26 | 0.0 | 37 | 0.0 | 52 | 0.0 | 49 | 25 | 19 |
| 20 | | | | 15 | 24 | 0.0 | 37 | 13 | 37 | 0.0 | 63 | 26 | 20 |
| 21 | | | | 15 | 2 | 7 | 28 | 19 | 28 | 0.0 | 47 | 25 | 21 |
| 22 | | | | 16 | 0.0 | 20 | 37 | 19 | 22 | 0.0 | 28 | 26 | 22 |
| 23 | | | | 16 | 15 | 20 | 61 | 19 | 22 | 0.0 | 17 | 25 | 23 |
| 24 | | | | 16 | 15 | 20 | 75 | 31 | 21 | 0.0 | 0.0 | 26 | 24 |
| 25 | | | | 15 | 38 | 7 | 86 | 37 | 21 | 0.0 | 0.0 | 25 | 25 |
| 26 | | | | 15 | 52 | 0.0 | 56 | 37 | 21 | 0.0 | 0.0 | 26 | 26 |
| 27 | | | | 15 | 52 | 0.0 | 1 | 42 | 31 | 13 | 16 | 15 | 27 |
| 28 | | | | 14 | 52 | 10 | 0.0 | 43 | 37 | 21 | 21 | 0.0 | 28 |
| 29 | | | | 18 | | 5 | 34 | 29 | 52 | 20 | 21 | 0.0 | 29 |
| 30 | | | | 22 | | 0.0 | 81 | 40 | 61 | 21 | 14 | 0.0 | 30 |
| 31 | | | | 26 | | 0.0 | | 68 | | 21 | 0.0 | | 31 |
| EAN | | | | 15 | 11 | 14 | 34 | 31 | 71 | 22 | 31 | 16 | MEAN |
| AX. | | | | 35 | 52 | 50 | 86 | 105 | 140 | 50 | 99 | 26 | MAX. |
| IN. | | | | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | MIN. |
| C. FT. | | | | 904 | 629 | 839 | 2041 | 1922 | 4201 | 1367 | 1922 | 972 | AC. FT. |

– ESTIMATED
R – 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 |
| 20.4 | 146 | | 6 | 17 | 2200 | 0 | | 10 | 1 | | 14797 |

| 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 | | |
| 36 10 | 119 50 | NW20 20S 20E | 4102a | | 6-12-69 | 1937-DATE | | | | | |

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.

a Maximum discharge since 1950.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C02602 | CROSS CREEK BELOW LAKELAND CANAL #2 |

| 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 | | | | | | NO FLOW | | | | | | | 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 | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | 29 |
| 20 | | | | | | | | | | | | | 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 *

| 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 DHLY | PERIOD | | ZERO ON GAGE | REF. DATUM |
| | | | CFS | GAGE HT. | DATE | | | FROM | TO | | |
| 36 12 42 | 119 34 05 | NE 10 20S 22E | | | | 1921-DATE | | | | | |

Station located downstream from 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 are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C03913 | FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 10 | | | 0 | 5 | 16 | 20 | 18 | 19 | 14 | 6 | 1 |
| 2 | 5 | 7 | | | 0 | 6 | 16 | 18 | 18 | 19 | 14 | 6 | 2 |
| 3 | 7 | 7 | | | 0 | 5 | 16 | 16 | 18 | 19 | 14 | 6 | 3 |
| 4 | 7 | 5 | | | 12 | 6 | 19 | 16 | 17 | 19 | 14 | 6 | 4 |
| 5 | 7 | 5 | | | 15 | 5 | 19 | 14 | 18 | 19 | 14 | 6 | 5 |
| 6 | 7 | 5 | | | 15 | 5 | 19 | 14 | 18 | 19 | 15 | 6 | 6 |
| 7 | 6 | 5 | | | 15 | 9 | 19 | 15 | 18 | 19 | 15 | 7 | 7 |
| 8 | 6 | 0 | | | 15 | 9 | 16 | 16 | 18 | 19 | 15 | 8 | 8 |
| 9 | 0 | 0 | | | 15 | 9 | 16 | 16 | 18 | 19 | 15 | 12 | 9 |
| 10 | 0 | 0 | | | 15 | 9 | 16 | 16 | 18 | 19 | 14 | 11 | 10 |
| 11 | 0 | 0 | | | 15 | 9 | 16 | 16 | 18 | 19 | 15 | 12 | 11 |
| 12 | 0 | 0 | | | 15 | 9 | 16 | 16 | 18 | 19 | 15 | 6 | 12 |
| 13 | 0 | 0 | N | N | 15 | 12 | 16 | 16 | 18 | 19 | 15 | 7 | 13 |
| 14 | 0 | 0 | O | O | 15 | 13 | 16 | 16 | 19 | 19 | 12 | 7 | 14 |
| 15 | 0 | 0 | | | 15 | 10 | 16 | 16 | 19 | 19 | 11 | 7 | 15 |
| 16 | 0 | 0 | F | F | 16 | 12 | 16 | 16 | 20 | 18 | 11 | 7 | 16 |
| 17 | 0 | 0 | L | L | 15 | 13 | 16 | 16 | 20 | 19 | 11 | 6 | 17 |
| 18 | 0 | 0 | O | O | 15 | 13 | 18 | 16 | 20 | 19 | 11 | 6 | 18 |
| 19 | 0 | 0 | W | W | 15 | 13 | 18 | 16 | 20 | 20 | 11 | 6 | 19 |
| 20 | 6 | 0 | | | 4 | 13 | 16 | 16 | 19 | 20 | 10 | 6 | 20 |
| 21 | 6 | 0 | | | 0 | 12 | 16 | 16 | 19 | 20 | 9 | 4 | 21 |
| 22 | 6 | 0 | | | 0 | 13 | 16 | 16 | 19 | 20 | 10 | 0 | 22 |
| 23 | 6 | 0 | | | 0 | 16 | 18 | 18 | 20 | 20 | 1 | 0 | 23 |
| 24 | 6 | 0 | | | 0 | 16 | 18 | 20 | 20 | 20 | 0 | 4 | 24 |
| 25 | 6 | 0 | | | 0 | 16 | 17 | 17 | 20 | 20 | 0 | 0 | 25 |
| 26 | 6 | 0 | | | 4 | 16 | 17 | 17 | 18 | 20 | 0 | 4 | 26 |
| 27 | 5 | 0 | | | 5 | 16 | 17 | 17 | 18 | 20 | 10 | 4 | 27 |
| 28 | 5 | 0 | | | 5 | 16 | 19 | 17 | 18 | 20 | 10 | 4 | 28 |
| 29 | 8 | 0 | | | | 16 | 19 | 17 | 18 | 15 | 8 | 3 | 29 |
| 30 | 9 | 0 | | | | 16 | 20 | 17 | 17.5 | 15 | 8 | 3 | 30 |
| 31 | 10 | | | | | 16 | | 17 | | 14.5 | 8 | | 31 |
| MEAN | 4.0 | 1.5 | | | 9.1 | 11.4 | 17.1 | 16.5 | 18.6 | 18.9 | 10.6 | 5.8 | MEAN |
| MAX. | 10 | 10 | | | 16 | 16 | 20 | 20 | 20 | 20 | 15 | 12 | MAX. |
| MIN. | 0 | 0 | | | 0 | 5 | 16 | 14 | 17 | 14.5 | 0 | 0 | MIN. |
| AC. FT. | 246 | 87 | | | 508 | 702 | 1018 | 1012 | 1106 | 1161 | 655 | 345 | 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 |
| 9.4 | 54 | 1.07 | 10 | 2 | 0800 | 0 | | | | | 6840 |

| 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 05 00 | 119 04 50 | SW20 21S 27E | | | | MAY 50-DATE | | | | | |

These flows are deliveries from Friant-Kern Canal into Porter Slough. 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-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | 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 | 80 | 105 | 115 | | 0 | 0 | 1 |
| 2 | | 0 | | | 0 | 0 | 80 | 104 | 115 | | 86 | 0 | 2 |
| 2 | | 0 | | | 0 | 0 | 80 | 104 | 115 | | 140 | 0 | 3 |
| 4 | | 0 | | | 50 | 0 | 79 | 104 | 115 | | 140 | 0 | 4 |
| 5 | | 0 | | | 88 | 0 | 80 | 104 | 115 | | 23.5 | 0 | 5 |
| 6 | | 0 | | | 108 | 0 | 80 | 105 | 115 | | 0 | 0 | 6 |
| 7 | | 0 | | | 116 | 0 | 80 | 105 | 115 | | 0 | 0 | 7 |
| 8 | | 0 | | | 115 | 0 | 89 | 115 | 115 | | 0 | 0 | 8 |
| 9 | | 0 | | | 115 | 0 | 90 | 100 | 115 | | 0 | 0 | 9 |
| 10 | | 0 | | | 115 | 0 | 90 | 90 | 115 | | 0 | 0 | 10 |
| 11 | | 0 | | | 115 | 0 | 11 | 90 | 115 | | 0 | 0 | 11 |
| 12 | | 0 | | | 115 | 0 | 0 | 90 | 115 | | 0 | 0 | 12 |
| 12 | | 0 | | | 116 | 0 | 0 | 113 | 115 | | 0 | 0 | 13 |
| 14 | N | 0 | N | N | 85 | 0 | 0 | 115 | 115 | N | 0 | 0 | 14 |
| 15 | O | 0 | O | O | 81 | 74 | 0 | 115 | 115 | O | 0 | 0 | 15 |
| 16 | | 0 | | | 71 | 74 | 0 | 115 | 115 | | 0 | 0 | 16 |
| 17 | F | 0 | F | F | 62 | 115 | 0 | 115 | 115 | F | 0 | 0 | 17 |
| 18 | L | 0 | L | L | 5 | 115 | 69 | 115 | 115 | L | 0 | 0 | 18 |
| 19 | O | 0 | O | O | 0 | 115 | 114 | 114 | 115 | O | 0 | 0 | 19 |
| 20 | W | 100 | W | W | 0 | 104 | 115 | 115 | 115 | W | 0 | 0 | 20 |
| 21 | | 100 | | | 0 | 104 | 115 | 115 | 115 | | 0 | 0 | 21 |
| 22 | | 88 | | | 0 | 104 | 115 | 115 | 115 | | 0 | 0 | 22 |
| 23 | | 79 | | | 0 | 106 | 115 | 115 | 115 | | 0 | 0 | 23 |
| 24 | | 79 | | | 0 | 91 | 115 | 115 | 114 | | 0 | 0 | 24 |
| 25 | | 6 | | | 0 | 91 | 114 | 115 | 19 | | 0 | 7 | 25 |
| 26 | | 0 | | | 0 | 81 | 105 | 115 | 0 | | 0 | 0 | 26 |
| 27 | | 0 | | | 0 | 81 | 105 | 115 | 0 | | 0 | 0 | 27 |
| 28 | | 0 | | | 0 | 80 | 105 | 115 | 0 | | 0 | 0 | 28 |
| 29 | | 0 | | | | 80 | 105 | 115 | 0 | | 0 | 0 | 29 |
| 30 | | 0 | | | | 80 | 105 | 115 | 0 | | 0 | 0 | 30 |
| 31 | | 0 | | | | 80 | | 115 | | | 0 | | 31 |
| MEAN | | 15.1 | | | 48.5 | 50.8 | 74.5 | 110 | 92.6 | | 12.6 | 0.2 | MEAN |
| MAX. | | 100 | | | 116 | 115 | 115 | 115 | 115 | | 140 | 7 | MAX. |
| MIN. | | 0 | | | 0 | 0 | 0 | 90 | 0 | | 0 | 0 | MIN. |
| AC. FT. | | 897 | | | 2692 | 3124 | 4435 | 6740 | 5510 | | 773 | 14 | 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 |
| 33.4 | 149 | 1.81 | 8 | 2 | 1200 | 0 | | | | | 24185 |

| 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 25 | 119 05 15 | NW29 21S 27E | | | | MAY 50-DATE | | | | | |

These flows are deliveries from Friant-Kern Canal into Tule River. Point of delivery is located on the Tule River approximately 4 miles west of Porterville where Friant-Kern Canal crosses the Tule River. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C03169 | TULE RIVER BELOW PORTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.0 | 90.0 | 0.0 | 262.0 | 0.0 | 90.0 b | 90.0 | 128.0 | 87.0 | 169.0 | | 1 |
| 2 | | 0.0 | 103.0 * | 0.0 | 271.0 | 0.0 | 93.0 b | 90.0 | 123.0 | 90.0 * | 169.0 a | | 2 |
| 3 | | 0.0 | 100.0 | 0.0 | 226.0 | 0.0 | 83.0 b* | 93.0 | 119.0 | 93.0 | 169.0 a | | 3 |
| 4 | | 0.0 | 103.0 | 0.0 | 123.0 a | 0.0 | 78.0 b | 90.0 | 107.0 | 93.0 | 152.0 a | | 4 |
| 5 | | 0.0 | 103.0 | 0.0 | 87.0 b | 0.0 | 80.0 b | 90.0 | 115.0 | 90.0 | 148.0 a | | 5 |
| 6 | | 0.0 | 107.0 | 0.0 | 80.0 b | 59.2 | 73.0 b | 97.0 | 115.0 | 90.0 | 165.0 | | 6 |
| 7 | | 0.0 | 111.0 | 0.0 | 100.0 b | 140.0 | 67.0 b | 93.0 | 107.0 | 103.0 | 217.0 | | 7 |
| 8 | | 0.0 | 115.0 | 0.0 | 100.0 b | 174.0 | 73.0 b | 90.0 | 111.0 | 111.0 | 213.0 * | | 8 |
| 9 | | 0.0 | 115.0 | 0.0 | 100.0 b | 123.0 | 83.0 b | 83.0 | 128.0 | 61.0 | 200.0 | | 9 |
| 10 | | 0.0 | 111.0 | 0.0 | 100.0 b | 128.0 | 80.0 b | 60.0 | 132.0 | 0.0 | 195.0 | | 10 |
| 11 | | 0.0 | 111.0 | 50.0 E | 90.0 b | 132.0 * | 56.0 a | 60.0 | 132.0 | 0.0 | 195.0 | | 11 |
| 12 | | 0.0 | 123.0 | 285.0 | 80.0 b | 66.3 | 73.0 | 60.0 | 132.0 | 0.0 | 200.0 | | 12 |
| 13 | N | 0.0 | 128.0 | 311.0 | 67.0 b | 0.0 | 100.0 | 80.0 | 144.0 | 0.0 | 200.0 | N | 13 |
| 14 | O | 0.0 | 119.0 | 307.0 | 63.0 b | 0.0 | 103.0 | 93.0 | 157.0 | 0.0 | 187.0 | O | 14 |
| 15 | | 0.0 | 115.0 | 276.0 | 47.0 b | 25.6 a | 103.0 | 93.0 | 148.0 | 0.0 | 157.0 | | 15 |
| 16 | F | 0.0 | 123.0 | 258.0 | 33.0 b | 47.0 b | 103.0 | 100.0 | 123.0 | 0.0 | 77.8 | F | 16 |
| 17 | L | 0.0 | 132.0 | 249.0 | 22.0 b | 70.0 b | 123.0 | 103.0 | 115.0 | 0.0 | 0.0 | L | 17 |
| 18 | O | 0.0 | 144.0 | 165.0 | 10.0 b | 93.0 b | 100.0 | 100.0 | 115.0 | 0.0 | 0.0 | O | 18 |
| 19 | W | 0.0 | 136.0 | 107.0 | 0.0 | 100.0 b | 97.0 | 97.0 | 119.0 | 0.0 | 0.0 | W | 19 |
| 20 | | 0.0 | 103.0 | 111.0 | 0.0 | 97.0 b | 90.0 | 100.0 | 132.0 | 0.0 | 0.0 | | 20 |
| 21 | | 0.0 | 0.0 | 111.0 | 0.0 | 93.0 b | 90.0 | 100.0 | 140.0 | 0.0 | 0.0 | | 21 |
| 22 | | 0.0 | 0.0 | 115.0 * | 0.0 | 93.0 b | 100.0 | 103.0 | 132.0 | 0.0 | 0.0 | | 22 |
| 23 | | 0.0 | 0.0 | 157.0 | 0.0 | 93.0 b | 103.0 | 107.0 * | 115.0 | 0.0 | 0.0 | | 23 |
| 24 | | 0.0 | 0.0 | 182.0 | 0.0 | 80.0 b | 107.0 | 107.0 | 111.0 | 0.0 | 0.0 | | 24 |
| 25 | | 0.0 | 0.0 | 204.0 | 0.0 | 70.0 b | 119.0 | 111.0 | 78.0 | 64.9 | 0.0 | | 25 |
| 26 | | 93.0 E* | 0.0 | 226.0 | 0.0 | 67.0 b | 100.0 | 115.0 | 87.0 | 169.0 | 0.0 | | 26 |
| 27 | | 115.0 E | 0.0 | 200.0 | 0.0 | 60.0 b | 93.0 | 119.0 | 103.0 | 169.0 | 0.0 | | 27 |
| 28 | | 132.0 E | 0.0 | 204.0 | 0.0 | 60.0 b | 97.0 | 123.0 | 97.0 | 152.0 | 0.0 | | 28 |
| 29 | | 140.0 E | 0.0 | 249.0 | | 61.0 b | 103.0 | 132.0 | 87.0 | 148.0 | 0.0 | | 29 |
| 30 | | 93.0 E | 0.0 | 262.0 | | 70.0 b | 100.0 | 132.0 | 90.0 | 152.0 | 0.0 | | 30 |
| 31 | | | 0.0 | 258.0 * | | 78.0 b | | 132.0 | | 161.0 | 0.0 | | 31 |
| MEAN | | 19.1 | 73.9 | 138.3 | 66.5 | 67.1 | 92.0 | 98.2 | 118.1 | 59.2 | 90.8 | | MEAN |
| MAX. | | 140.0 | 144.0 | 311.0 | 271.0 | 174.0 | 123.0 | 132.0 | 157.0 | 169.0 | 217.0 | | MAX. |
| MIN. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 56.0 | 60.0 | 78.0 | 0.0 | 0.0 | | MIN. |
| AC. FT. | | 1137 | 4546 | 8503 | 3691 | 4126 | 5474 | 6036 | 7026 | 3638 | 5581 | | AC. FT. |

a - Includes CVP water
b. - All CVP water
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 68.6 | 311 | 2.58 | 1 | 13 | Daily Mean | 0 | | | | | 49758 |

| 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 | 8850 | 9.27 | 12-7-66 | FEB 57-DATE | | 1957<br>1959 | 1959 | 0.00<br>-3.48 | LOCAL<br>LOCAL |

Station located 330 feet upstream from 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-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C03970 | CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 9.0 * | 5.7 | | | 0.0 | 8.1 | 0.0 | 13.2 | 15.2 | 11.6 * | 12.5 | 12.5 | 1 |
| 2 | 9.0 | 6.0 | | | 0.0 | 3.5 | 0.0 | 13.2 | 14.8 | 11.0 | 11.6 | 13.9 | 2 |
| 3 | 9.0 | 5.4 | | | 0.0 | 0.0 | 0.0 | 13.5 | 14.8 * | 11.0 | 11.0 | 13.9 | 3 |
| 4 | 8.7 | 5.0 | | | 0.0 | 0.0 | 0.0 | 13.9 | 14.8 | 11.0 | 11.0 | 12.5 * | 4 |
| 5 | 8.4 | 5.0 | | | 0.0 | 0.0 | 0.0 | 12.5 | 15.8 | 11.0 | 11.9 | 12.2 | 5 |
| 6 | 5.4 | 5.2 | | | 0.0 | 0.0 | 0.0 | 12.5 * | 16.5 | 11.3 | 12.5 | 11.6 | 6 |
| 7 | 8.1 | 5.2 | | | 0.0 | 0.0 | 0.0 | 13.9 | 16.2 | 11.0 | 12.9 * | 10.4 | 7 |
| 8 | 9.6 * | 5.2 | | | 0.0 | 0.0 | 0.0 | 14.2 | 16.5 | 11.0 | 12.5 | 10.0 | 8 |
| 9 | 7.8 | 5.2 | | | 0.0 | 0.0 | 0.0 | 14.5 | 16.5 | 10.7 | 12.5 | 10.0 | 9 |
| 10 | 5.7 | 5.2 | | | 0.0 | 0.0 | 0.0 | 14.8 | 11.0 | 11.3 | 11.0 | 10.0 | 10 |
| 11 | 5.7 | 5.0 | | | 0.0 | 0.0 | 0.0 | 15.2 | 7.8 * | 11.3 | 11.0 | 10.4 | 11 |
| 12 | 5.2 | 2.7 | | | 0.0 | 0.0 | 0.0 | 14.8 | 7.5 | 10.4 | 11.3 * | 10.7 | 12 |
| 13 | 4.7 | 0.0 | N | N | 0.0 | 0.0 | 0.0 | 15.2 | 7.8 | 10.4 | 12.5 | 11.0 | 13 |
| 14 | 4.2 | 0.0 | O | O | 0.0 | 0.0 | 0.0 | 15.2 | 8.1 | 10.4 | 12.9 | 10.4 | 14 |
| 15 | 4.4 * | 0.0 | | | 0.0 | 0.0 | 0.0 | 15.2 | 7.8 | 10.0 * | 12.2 | 11.9 | 15 |
| 16 | 5.2 | 0.0 | F | F | 0.0 | 0.0 | 0.0 | 14.5 | 7.8 | 10.0 | 11.6 | 12.5 * | 16 |
| 17 | 5.2 | 0.0 | L | L | 0.0 | 0.0 | 0.0 | 14.5 | 7.8 * | 10.0 | 11.6 | 13.2 | 17 |
| 18 | 6.0 | 0.0 | O | O | 0.0 | 0.0 | 0.0 | 14.5 | 7.5 | 10.0 | 11.6 | 13.5 | 18 |
| 19 | 6.5 | 0.0 | W | W | 0.0 | 0.0 | 0.0 | 15.2 | 8.1 | 10.0 | 11.9 * | 14.2 | 19 |
| 20 | 6.5 | 0.0 | | | 0.0 | 0.0 | 0.0 | 14.8 * | 8.1 | 10.4 | 12.2 | 14.5 | 20 |
| 21 | 6.5 | 0.0 | | | 0.0 | 0.0 | 0.0 | 14.5 | 7.8 | 10.0 | 11.9 | 14.5 | 21 |
| 22 | 6.2 | 0.0 | | | 0.0 | 0.0 | 2.7 * | 14.8 | 7.2 | 10.0 | 12.2 | 12.5 | 22 |
| 23 | 5.7 * | 0.0 | | | 0.0 | 0.0 | 8.4 | 14.8 * | 6.8 | 9.6 | 12.2 | 11.0 * | 23 |
| 24 | 5.0 | 0.0 | | | 0.0 | 0.0 | 7.8 | 14.5 | 7.8 * | 9.6 | 11.9 | 10.7 | 24 |
| 25 | 4.7 | 0.0 | | | 4.3 | 0.0 | 8.7 | 14.2 | 10.4 | 10.4 | 11.9 | 10.4 | 25 |
| 26 | 4.4 | 0.0 | | | 8.1 * | 0.0 | 10.4 | 14.2 | 10.7 | 11.9 | 11.9 | 9.3 | 26 |
| 27 | 4.4 | 0.0 | | | 7.8 | 0.0 | 10.4 | 13.9 | 11.0 | 12.9 | 11.6 | 7.8 | 27 |
| 28 | 4.2 | 0.0 | | | 7.5 | 0.0 | 10.7 | 14.2 * | 11.0 | 12.5 | 11.6 | 7.5 | 28 |
| 29 | 5.2 * | 0.0 | | | | 0.0 | 11.0 * | 14.5 | 11.3 | 12.5 | 13.2 | 7.8 | 29 |
| 30 | 6.2 | 0.0 | | | | 0.0 | 11.9 | 14.2 | 11.9 | 11.9 | 13.2 | 8.1 | 30 |
| 31 | 6.0 | | | | | 0.0 | | 14.5 | | 12.2 | 12.9 | | 31 |
| MEAN | 6.2 | 2.0 | | | 1.0 | 0.4 | 2.7 | 14.3 | 10.9 | 10.9 | 12.0 | 11.3 | MEAN |
| MAX. | 9.6 | 6.0 | | | 8.1 | 8.1 | 11.9 | 15.2 | 16.5 | 12.9 | 13.2 | 14.5 | MAX. |
| MIN. | 4.2 | 0.0 | | | 0.0 | 0.0 | 0.0 | 12.5 | 6.8 | 9.6 | 11.0 | 7.5 | MIN. |
| AC. FT. | 382 | 121 | | | 55 | 23 | 163 | 880 | 647 | 669 | 739 | 672 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.0 | 16.8 | 0.74 | 6 | 6 | 1400 | 0 | | | | | 4351 |

| 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 downstream from 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-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C03182 | PORTER SLOUGH AT PORTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 | | | 0.0 | 95.0 | 0.0 | 0.0 | 17.8 | 22.8 | 23.4 * | 14.1 | 14.9 | 1 |
| 2 | 0.0 | | | 0.0 | 91.2 | 0.0 | 0.0 | 16.8 | 22.4 | 24.0 | 17.8 | 14.1 | 2 |
| 3 | 0.0 | | | 0.0 | 83.4 | 0.0 | 0.0 | 17.4 | 20.0 | 24.0 | 16.8 | 14.1 | 3 |
| 4 | 0.0 | | | 0.0 | 14.3 | 0.0 | 0.0 | 17.8 | 17.8 | 24.0 | 16.8 | 13.8 * | 4 |
| 5 | 0.0 | | | 0.0 | 6.2 | 0.0 | 0.0 | 17.4 | 18.2 | 24.0 | 19.0 | 15.4 | 5 |
| 6 | 0.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 16.8 * | 23.4 | 24.0 | 16.0 | 14.3 | 6 |
| 7 | 0.1 | | | 7.5 | 0.0 | 0.0 | 0.0 | 7.4 | 37.6 | 24.0 | 13.4 | 13.0 | 7 |
| 8 | 1.3 | | | 39.0 | 0.0 | 0.0 | 0.0 | 0.0 | 38.3 | 24.0 | 14.3 | 13.0 | 8 |
| 9 | 4.5 | | | 45.6 | 0.0 | 0.0 | 0.0 | 0.0 | 37.6 | 22.8 | 16.4 | 13.8 | 9 |
| 10 | 21.0 * | | | 56.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.0 * | 24.8 | 16.4 | 15.4 * | 10 |
| 11 | 32.8 | | | 83.4 | 0.0 | 0.0 | 15.8 | 0.0 | 37.6 | 25.1 | 16.4 | 14.9 | 11 |
| 12 | 34.8 | | | 87.4 | 0.0 | 0.0 | 27.5 | 0.0 | 28.8 | 24.8 * | 15.8 | 14.9 | 12 |
| 13 | 33.4 | N | N | 85.0 | 0.0 | 0.0 | 12.4 | 0.0 | 20.4 | 24.4 | 13.8 | 12.4 | 13 |
| 14 | 32.8 | O | O | 82.6 | 0.0 | 0.0 | 1.3 * | 5.3 | 21.0 | 24.0 | 13.8 | 9.4 | 14 |
| 15 | 32.8 * | | | 80.8 | 0.0 | 14.6 | 12.5 | 18.2 * | 19.4 | 24.0 * | 15.8 | 7.0 | 15 |
| 16 | 33.4 | F | F | 80.8 | 0.0 | 32.8 | 32.8 | 18.2 | 18.2 | 24.4 | 15.8 | 5.4 * | 16 |
| 17 | 34.0 | L | L | 84.2 | 0.0 | 37.0 | 28.0 | 17.8 | 19.0 * | 24.4 | 18.6 | 0.0 | 17 |
| 18 | 29.4 | O | O | 76.4 | 0.0 | 34.0 * | 29.9 | 18.2 | 20.0 | 24.8 | 24.0 | 0.0 | 18 |
| 19 | 21.4 | W | W | 78.0 | 0.0 | 31.6 | 28.0 | 20.0 | 21.0 | 24.0 | 28.0 * | 0.0 | 19 |
| 20 | 18.6 | | | 80.8 | 0.0 | 31.6 | 28.0 | 21.4 * | 21.0 E | 21.4 | 24.0 | 0.0 | 20 |
| 21 | 18.6 | | | 80.8 | 0.0 | 31.6 | 29.4 | 21.9 | 21.0 E | 21.0 | 19.4 | 0.0 | 21 |
| 22 | 18.6 | | | 84.2 * | 0.0 | 12.1 | 29.9 * | 22.4 | 21.0 E | 21.0 | 19.4 | 0.0 | 22 |
| 23 | 19.0 * | | | 93.4 | 0.0 | 1.3 | 31.0 | 21.9 | 21.0 E | 20.4 | 17.4 | 0.0 | 23 |
| 24 | 11.8 | | | 92.6 | 0.0 | 0.4 | 27.0 | 22.8 | 20.4 # | 20.4 | 15.8 | 0.0 | 24 |
| 25 | 2.2 | | | 92.6 | 0.0 | 0.0 | 23.4 | 22.8 | 20.4 | 17.8 | 16.4 | 0.0 | 25 |
| 26 | 1.1 | | | 98.0 | 0.0 | 0.0 | 21.4 | 22.4 | 21.9 | 13.0 E | 16.8 | 0.0 | 26 |
| 27 | 0.5 | | | 95.0 | 0.0 | 0.0 | 19.0 | 22.4 | 21.9 | 12.4 E | 16.8 | 0.0 | 27 |
| 28 | 0.0 | | | 96.2 | 0.0 | 0.0 | 19.0 | 21.9 * | 21.4 | 12.4 E | 15.8 | 0.0 | 28 |
| 29 | 0.0 | | | 99.2 | | 0.0 | 18.2 * | 21.4 | 22.4 | 13.0 E | 16.8 | 0.0 | 29 |
| 30 | 0.0 | | | 100.2 * | | 0.0 | 18.2 | 21.4 | 23.4 | 13.0 E | 16.4 | 1.4 | 30 |
| 31 | 0.0 | | | 100.2 | | 0.0 | | 21.4 | | 12.4 | 16.0 | | 31 |
| MEAN | 13.0 | | | 64.5 | 10.4 | 7.3 | 15.1 | 15.3 | 23.9 | 21.2 | 17.2 | 6.9 | MEAN |
| MAX. | 34.8 | | | 100.2 | 95.0 | 37.0 | 32.8 | 22.8 | 38.3 | 25.1 | 28.0 | 15.4 | MAX. |
| MIN. | 0.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.8 | 12.4 | 13.0 | 0.0 | MIN. |
| AC. FT. | 798 | | | 3967 | 575 | 450 | 898 | 939 | 1421 | 1303 | 1059 | 411 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16.3 | 100.2 | | 1 | 30 | | 0 | | | | | 11821 |

| 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-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C03984 | PORTER SLOUGH OITCH AT PORTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 | | | | | | 0.0 | 9.0 | 10.6 | 13.1 * | 4.6 | 8.8 | 1 |
| 2 | 0.0 | | | | | | 0.0 | 9.2 | 10.6 | 12.6 | 8.7 | 7.4 | 2 |
| 3 | 0.0 | | | | | | 0.0 | 8.0 | 10.5 * | 13.1 | 8.3 | 5.4 | 3 |
| 4 | 0.0 | | | | | | 0.0 | 6.8 | 9.8 | 12.6 | 8.4 | 5.4 | 4 |
| 5 | 0.0 | | | | | | 0.0 | 7.1 | 9.9 | 11.6 | 11.4 | 4.5 | 5 |
| 6 | 0.0 | | | | | | 0.0 | 6.6 * | 10.5 | 11.0 | 11.9 | 4.9 | 6 |
| 7 | 0.0 | | | | | | 0.0 | 3.4 | 14.3 | 12.6 | 7.1 | 5.3 | 7 |
| 8 | 0.0 | | | | | | 0.0 | 0.0 | 14.1 | 11.3 | 5.9 | 6.1 | 8 |
| 9 | 0.0 | | | | | | 0.0 | 0.0 | 14.1 | 11.0 | 6.7 | 6.8 | 9 |
| 10 | 0.0 | | | | | | 0.0 | 0.0 | 14.3 | 11.9 | 6.3 | 7.6 * | 10 |
| 11 | 7.9 | | | | | | 0.0 | 0.0 | 14.4 * | 11.7 | 6.7 | 8.0 | 11 |
| 12 | 14.8 | | | | | | 0.0 | 0.0 | 13.1 | 12.2 | 5.2 | 7.1 | 12 |
| 13 | 16.8 | N | N | N | N | N | 0.0 | 0.0 | 10.6 | 12.2 | 4.3 | 5.0 | 13 |
| 14 | 15.7 | O | O | O | O | O | 0.0 | 0.0 | 10.7 | 12.6 | 4.6 | 3.2 | 14 |
| 15 | 16.8 * | | | | | | 0.0 | 7.2 * | 10.1 | 12.2 | 4.9 | 2.4 | 15 |
| 16 | 17.4 | F | F | F | F | F | 5.9 * | 9.2 | 9.8 | 12.5 | 9.6 | 3.5 | 16 |
| 17 | 17.6 | L | L | L | L | L | 9.0 | 9.9 | 9.8 * | 12.8 | 16.1 | 0.0 | 17 |
| 18 | 16.6 | O | O | O | O | O | 11.3 | 10.4 | 9.9 | 12.6 | 17.0 | 0.0 | 18 |
| 19 | 11.7 | W | W | W | W | W | 9.8 | 9.6 | 9.9 | 11.6 | 15.1 * | 0.0 | 19 |
| 20 | 9.5 | | | | | | 9.0 | 9.5 * | 11.2 | 10.9 | 13.0 | 0.0 | 20 |
| 21 | 9.9 | | | | | | 10.4 | 8.8 | 11.2 | 11.7 | 7.7 | 0.0 | 21 |
| 22 | 11.6 | | | | | | 12.2 * | 8.1 | 11.0 | 14.4 | 6.5 | 0.0 | 22 |
| 23 | 11.4 * | | | | | | 11.4 | 8.1 | 10.9 | 14.4 | 6.8 | 0.0 | 23 |
| 24 | 6.0 | | | | | | 10.9 | 8.3 | 11.0 * | 10.2 | 6.6 | 0.0 | 24 |
| 25 | 0.0 | | | | | | 10.0 | 8.8 | 12.2 | 8.8 | 6.0 | 0.0 | 25 |
| 26 | 0.0 | | | | | | 9.0 | 9.2 | 13.4 | 6.1 | 7.4 | 0.0 | 26 |
| 27 | 0.0 | | | | | | 7.8 | 9.5 | 13.8 | 5.8 | 9.8 | 0.0 | 27 |
| 28 | 0.0 | | | | | | 9.2 | 9.9 * | 13.9 | 6.0 | 8.3 | 0.0 | 28 |
| 29 | 0.0 | | | | | | 6.6 * | 10.1 * | 14.6 | 5.5 | 9.6 | 0.0 | 29 |
| 30 | 0.0 | | | | | | 6.1 | 10.0 | 14.1 | 4.7 | 7.9 | 0.7 | 30 |
| 31 | 0.0 | | | | | | | 10.2 | | 4.3 | 8.8 | | 31 |
| MEAN | 5.9 | | | | | | 4.6 | 6.7 | 11.8 | 10.8 | 8.4 | 3.1 | MEAN |
| MAX. | 17.6 | | | | | | 12.2 | 10.4 | 14.6 | 14.4 | 17.0 | 8.8 | MAX. |
| MIN. | 0.0 | | | | | | 0.0 | 0.0 | 9.8 | 4.3 | 4.3 | 0.0 | MIN. |
| AC. FT. | 364 | | | | | | 275 | 410 | 703 | 662 | 518 | 183 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.3 | 20.7 | 3.25 | 8 | 18 | 1600 | 0 | | | | | 3115 |

| 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 downstream from 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-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C03965 | VANDALIA DITCH NEAR PORTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.7 | | | | | | | 0.0 | 4.7 | 4.1 | 7.1 | 2.9 | 1 |
| 2 | 0.8 | | | | | | | 0.0 | 4.6 | 6.4 | 6.9 | 2.9 | 2 |
| 3 | 0.9 | | | | | | | 0.0 | 4.7 * | 6.6 | 6.9 | 2.8 | 3 |
| 4 | 0.9 | | | | | | | 0.0 | 4.9 | 7.1 | 7.1 | 2.9 * | 4 |
| 5 | 0.8 | | | | | | | 0.0 | 5.3 | 7.1 | 7.8 | 2.8 | 5 |
| 6 | 0.8 | | | | | | | 0.0 * | 5.3 | 7.1 | 8.6 | 2.6 | 6 |
| 7 | 0.8 | | | | | | | 0.3 | 5.6 | 7.1 | 9.0 | 2.5 | 7 |
| 8 | 0.8 | | | | | | | 1.7 | 6.1 | 7.3 | 9.7 | 2.5 | 8 |
| 9 | 0.8 | | | | | | | 2.6 | 6.4 | 7.1 | 10.2 | 2.5 | 9 |
| 10 | 0.8 | | | | | | | 2.6 * | 6.4 * | 7.3 | 11.2 | 2.5 | 10 |
| 11 | 0.8 | | | | | | | 2.5 | 5.8 | 7.5 | 12.0 | 2.4 | 11 |
| 12 | 0.8 | | | | | | | 2.6 | 5.6 | 7.6 | 8.4 | 2.4 | 12 |
| 13 | 0.8 | N | N | N | N | N | N | 2.7 * | 5.8 | 7.6 | 8.8 | 2.2 | 13 |
| 14 | 0.9 | O | O | O | O | O | O | 2.9 | 5.9 | 7.6 | 11.0 | 2.2 | 14 |
| 15 | 0.9 | | | | | | | 3.1 | 5.7 | 7.3 | 6.1 | 2.1 | 15 |
| 16 | 0.8 | F | F | F | F | F | F | 3.1 | 5.7 | 7.1 | 4.9 | 1.9 * | 16 |
| 17 | 0.9 | L | L | L | L | L | L | 2.9 | 5.6 * | 7.1 | 4.5 | 2.0 | 17 |
| 18 | 0.9 | O | O | O | O | O | O | 2.7 | 5.6 | 7.1 | 3.9 | 2.0 | 18 |
| 19 | 0.9 | W | W | W | W | W | W | 2.4 | 2.5 | 7.1 | 3.6 * | 1.0 | 19 |
| 20 | 0.9 | | | | | | | 2.5 * | 1.2 | 7.1 | 3.4 | 0.0 | 20 |
| 21 | 1.1 | | | | | | | 2.9 | 1.0 E | 7.1 | 3.3 | 0.0 | 21 |
| 22 | 1.1 | | | | | | * | 3.4 | 1.0 E | 7.1 | 3.2 | 0.0 | 22 |
| 23 | 1.0 | | | | | | | 3.9 * | 1.0 E | 7.1 | 3.2 | 0.0 * | 23 |
| 24 | 1.1 | | | | | | | 3.9 | 1.0 E | 7.1 | 3.0 | 0.0 | 24 |
| 25 | 0.4 | | | | | | | 3.9 | 1.0 E | 7.8 | 2.9 | 0.0 | 25 |
| 26 | 0.0 | | | | | | | 3.9 | 1.0 E | 7.5 | 2.9 | 0.0 | 26 |
| 27 | 0.0 | | | | | | | 3.9 | 1.0 E | 6.9 | 2.7 | 0.0 | 27 |
| 28 | 0.0 | | | | | | * | 4.6 * | 1.0 E | 6.7 | 2.6 | 0.0 | 28 |
| 29 | 0.0 | | | | | | | 4.8 | 1.0 E | 6.4 | 2.8 | 0.0 | 29 |
| 30 | 0.0 | | | | | | | 4.8 | 1.0 E | 6.6 | 2.9 | 0.0 * | 30 |
| 31 | 0.0 | | | | | | | 4.6 | | 6.9 | 2.9 | | 31 |
| MEAN | 0.7 | | | | | | | 2.6 | 3.8 | 7.0 | 5.9 | 1.5 | MEAN |
| MAX. | 1.1 | | | | | | | 4.8 | 6.4 | 7.8 | 12.0 | 2.9 | MAX. |
| MIN. | 0.0 | | | | | | | 0.0 | 1.0 E | 4.1 | 2.6 | 0.0 | MIN. |
| AC. FT. | 42 | | | | | | | 157 | 225 | 431 | 364 | 89 | 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 |
| 1.8 | 13.2 | 1.86 | 8 | 11 | 0900 | 0 | | | | | 1308 |

| 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 downstream from 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-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C03960 | POPLAR DITCH NEAR PORTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 101.4 | 52.4 | 56.5 | 0.0 | 75.0 | 18.8 * | 25.5 | 33.9 | 32.1 | 130.4 * | 123.2 | 133.4 | 1 |
| 2 | 100.8 | 53.4 | 59.9 | 0.0 | 75.5 | 25.8 | 28.0 | 35.8 | 32.1 | 129.8 | 122.6 | 119.6 | 2 |
| 3 | 102.0 | 21.5 | 61.8 * | 0.0 | 71.5 | 25.2 | 32.6 | 36.1 | 32.6 * | 129.8 | 122.0 | 107.6 | 3 |
| 4 | 95.0 | 0.0 | 61.8 | 0.0 | 55.0 | 34.4 | 30.2 | 36.1 | 37.0 | 129.8 | 123.2 | 97.6 | 4 |
| 5 | 86.2 | 0.0 | 61.8 | 0.0 | 48.0 | 40.6 | 28.0 | 31.4 | 37.8 | 129.8 | 124.4 | 69.4 | 5 |
| 6 | 85.1 | 0.0 | 61.8 | 0.0 | 34.2 | 93.8 | 30.6 | 32.1 * | 37.4 | 129.8 | 124.4 | 24.5 | 6 |
| 7 | 87.9 | 0.0 | 61.8 | 0.0 | 27.4 | 120.2 * | 32.6 | 30.2 | 37.0 | 119.0 | 123.2 | 2.0 E | 7 |
| 8 | 84.6 * | 0.0 | 62.2 | 0.0 | 27.4 | 108.3 | 32.6 * | 12.8 | 61.3 | 119.0 | 121.4 | 2.0 E | 8 |
| 9 | 77.8 | 0.0 | 62.2 | 0.0 | 29.4 | 107.6 | 30.6 | 2.0 E | 83.6 | 125.0 | 123.8 | 2.0 E | 9 |
| 10 | 75.5 | 0.0 | 62.2 * | 0.0 | 46.6 | 101.4 | 31.4 | 2.0 E | 73.2 | 126.2 | 125.6 | 2.0 E | 10 |
| 11 | 68.4 | 0.0 | 61.8 | 0.5 E | 49.0 * | 98.2 * | 52.0 | 2.0 E | 56.5 * | 128.0 | 125.6 | 2.0 E | 11 |
| 12 | 66.4 | 0.0 | 61.8 | 0.5 E | 50.0 | 96.2 | 65.4 | 2.0 E | 49.0 | 129.2 | 128.6 * | 2.0 E | 12 |
| 13 | 62.7 | 0.0 | 61.3 | 0.5 E | 17.5 | 96.9 | 72.1 | 2.0 E | 45.1 | 129.2 | 129.8 | 2.0 E | 13 |
| 14 | 58.0 | 0.0 | 61.8 | 31.9 | 0.0 | 95.0 | 74.4 | 0.0 | 47.0 | 129.2 | 128.0 | 2.0 E | 14 |
| 15 | 58.4 * | 0.0 | 62.2 | 58.0 | 0.0 | 58.0 | 76.0 * | 0.0 | 48.6 | 124.4 | 126.8 | 2.0 E | 15 |
| 16 | 60.4 | 0.0 | 62.2 | 63.8 | 0.0 | 37.0 | 79.0 | 0.0 | 49.0 | 123.8 | 125.6 | 2.0 E | 16 |
| 17 | 62.2 | 0.0 | 60.8 * | 66.4 | 0.0 | 35.8 | 79.5 | 0.0 | 48.6 * | 117.6 | 124.4 | 2.0 E | 17 |
| 18 | 65.4 | 0.0 | 60.4 | 66.4 | 0.0 | 33.4 | 79.0 | 0.0 | 48.6 | 120.2 | 123.2 | 2.0 E | 18 |
| 19 | 59.4 | 0.0 | 63.2 | 64.9 | 0.0 | 33.9 | 77.8 | 0.0 | 79.5 * | 124.4 | 120.8 * | 2.0 E | 19 |
| 20 | 56.0 | 0.0 | 58.4 | 65.4 | 0.0 | 33.9 | 77.8 | 0.0 | 105.8 | 125.0 | 124.4 | 2.0 E | 30 |
| 21 | 56.5 | 0.0 | 7.2 | 65.4 * | 0.0 | 33.0 | 76.0 | 3.5 | 95.6 | 124.4 | 128.0 | 2.0 E | 21 |
| 22 | 57.0 | 0.0 | 0.0 | 65.9 | 0.0 | 33.0 | 75.5 * | 16.4 * | 87.3 | 123.8 | 128.0 | 2.0 E | 22 |
| 23 | 58.0 | 0.0 | 0.0 | 67.4 | 0.0 | 33.0 | 76.6 | 25.2 | 87.3 | 123.2 | 127.4 | 2.0 E | 23 |
| 24 | 57.5 | 0.0 | 0.0 | 67.9 | 0.0 | 32.6 | 49.0 | 28.0 | 86.8 * | 123.2 | 104.6 | 2.0 E | 24 |
| 25 | 59.9 | 38.9 | 0.0 | 68.9 | 0.0 | 32.1 * | 30.6 | 28.3 | 115.6 | 123.2 | 86.8 | 2.0 E | 25 |
| 26 | 59.9 | 64.9 * | 0.0 | 70.0 | 0.0 | 31.8 | 31.0 | 26.6 | 128.0 | 122.6 | 86.8 | 2.0 E | 26 |
| 27 | 59.4 | 61.8 | 0.0 | 70.0 | 0.0 | 34.4 | 31.0 | 26.2 | 126.8 | 119.6 | 113.8 | 2.0 E | 27 |
| 28 | 58.4 | 59.9 | 0.0 | 70.0 * | 0.0 | 36.1 | 31.0 | 28.6 | 126.2 | 123.2 | 126.8 | 2.0 E | 28 |
| 29 | 55.5 * | 57.0 | 0.0 | 72.1 | | 35.8 | 31.0 | 28.3 * | 130.4 | 124.4 | 134.8 | 2.0 E | 29 |
| 30 | 52.0 | 56.0 | 0.0 | 73.8 | | 29.0 | 31.0 | 28.6 | 130.4 | 124.4 | 139.6 | 2.0 E | 30 |
| 31 | 52.4 | | 0.0 | 74.4 | | 25.5 | | 31.4 | | 124.4 | 139.0 | | 31 |
| MEAN | 69.0 | 15.5 | 39.8 | 38.2 | 21.7 | 53.2 | 49.9 | 17.1 | 71.9 | 125.0 | 122.8 | 20.0 | MEAN |
| MAX. | 102.0 | 64.9 | 63.2 | 74.4 | 75.5 | 120.2 | 79.5 | 36.1 | 130.4 | 130.4 | 139.6 | 133.4 | MAX. |
| MIN. | 52.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.8 | 25.5 | 0.0 | 32.1 | 117.6 | 86.8 | 2.0 | MIN. |
| AC. FT. | 4245 | 924 | 2446 | 2349 | 1203 | 3274 | 2971 | 1050 | 4277 | 7688 | 7550 | 1190 | 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 |
| 53.7 | 141 | 3.42 | 8 | 30 | 1700 | 0 | | | | | 39167 |

| 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 downstream from 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-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C03925 | HUBBS-MINER DITCH AT PORTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 0.0 | 6.0 | 0.0 | 7.6 | 5.6 | 13.5 | 5.0 | 7.9 | 1 |
| 2 | | | | | 0.0 | 4.2 | 0.0 | 7.5 | 4.1 | 13.5 | 4.0 | 7.6 | 2 |
| 3 | | | | | 0.0 | 0.0 | 0.0 | 7.8 | 2.9 | 13.5 | 1.0 | 6.5 | 3 |
| 4 | | | | | 0.0 | 0.0 | 0.0 | 8.0 | 0.0 | 12.5 | 0.0 | 3.1 | 4 |
| 5 | | | | | 0.0 | 0.0 | 0.0 | 7.6 | 1.2 | 12.1 | 0.2 | 0.2 | 5 |
| 6 | | | | | 0.0 | 0.0 | 0.0 | 7.4 * | 1.9 | 11.5 | 1.8 | 0.0 | 6 |
| 7 | | | | | 0.0 | 0.0 | 0.0 | 7.1 | 2.4 | 7.3 | 3.3 | 0.0 | 7 |
| 8 | | | | | 0.0 | 0.0 | 0.0 | 3.5 | 2.5 | 4.0 | 4.6 | 0.0 | 8 |
| 9 | | | | | 0.0 | 0.0 | 0.0 | 3.7 | 2.8 | 2.9 | 5.2 | 0.0 | 9 |
| 10 | | | | | 0.0 | 0.0 | 0.0 | 5.4 | 6.5 | 2.4 | 4.6 | 1.1 | 10 |
| 11 | | | | | 0.0 | 0.0 | 0.0 | 4.1 | 6.5 | 2.1 | 4.5 | 2.6 | 11 |
| 12 | | | | | 0.0 | 0.0 | 0.0 | 3.2 E | 7.3 | 3.8 * | 4.7 | 2.6 | 12 |
| 13 | | | | | 0.0 | 0.0 | 0.0 | 3.2 E | 8.0 | 5.0 | 4.4 | 1.4 | 13 |
| 14 | N | N | N | N | 0.0 | 0.0 | 0.0 | 3.3 E | 8.7 | 4.8 | 2.9 | 0.0 | 14 |
| 15 | O | O | O | O | 0.0 | 0.0 | 0.0 | 3.3 E | 6.9 | 4.8 | 3.7 | 0.0 | 15 |
| 16 | | | | | 0.0 | 0.0 | 0.0 | 2.3 | 5.4 | 7.4 | 1.4 | 0.0 | 16 |
| 17 | F | F | F | F | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 * | 9.6 | 1.1 | 0.0 | 17 |
| 18 | L | L | L | L | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 7.5 | 0.7 | 0.0 | 18 |
| 19 | O | O | O | O | 0.0 | 0.0 | 2.4 | 0.0 | 5.2 | 4.0 | 0.8 | 0.0 | 19 |
| 20 | W | W | W | W | 0.0 | 0.0 | 4.3 | 0.0 | 3.6 | 2.1 | 0.8 | 0.0 | 20 |
| 21 | | | | | 0.0 | 0.0 | 4.6 | 0.0 | 2.5 | 1.3 | 1.2 | 0.0 | 21 |
| 22 | | | | | 0.0 | 0.0 | 4.7 * | 0.0 | 1.1 | 4.7 | 1.3 | 0.0 | 22 |
| 23 | | | | | 0.0 | 0.0 | 4.9 | 0.0 | 0.4 | 9.4 | 1.3 | 0.0 | 23 |
| 24 | | | | | 0.0 | 0.0 | 5.1 | 0.0 | 0.2 | 9.0 | 1.5 | 0.0 | 24 |
| 25 | | | | | 0.0 | 0.0 | 5.2 | 0.0 | 3.3 | 11.1 | 1.8 | 0.0 | 25 |
| 26 | | | | | 0.0 | 0.0 | 3.8 | 0.0 | 3.9 | 14.3 | 1.5 | 0.0 | 26 |
| 27 | | | | | 3.2 | 0.0 | 2.6 | 0.0 | 3.4 | 12.3 | 0.4 | 0.0 | 27 |
| 28 | | | | | 5.9 | 0.0 | 0.0 | 0.0 | 8.2 | 10.6 | 1.9 | 0.0 | 28 |
| 29 | | | | | | 0.0 | 0.0 | 4.2 * | 11.9 | 12.3 | 7.4 | 0.0 | 29 |
| 30 | | | | | | 0.0 | 4.4 | 6.8 | 13.3 | 13.1 | 8.3 | 0.0 | 30 |
| 31 | | | | | | 0.0 | | 7.1 | | 7.8 | 8.3 | | 31 |
| MEAN | | | | | 0.3 | 0.3 | 1.4 | 3.3 | 4.7 | 8.1 | 2.9 | 1.1 | MEAN |
| MAX. | | | | | 5.9 | 6.0 | 5.2 | 8.0 | 13.3 | 14.3 | 8.3 | 7.9 | MAX. |
| MIN. | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | MIN. |
| AC. FT. | | | | | 18 | 20 | 83 | 205 | 278 | 496 | 178 | 65 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.8 | 14.8 | 2.30 | 7 | 26 | 1300 | 0 | | | | | 1343 |

| 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 downstream from 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-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C03948 | WOODS-CENTRAL DITCH NEAR PORTERVILLE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.0 | 54.6 | 0.0 | 82.3 | 0.0 | 0.0 | 0.0 | 1.5 E | 148.5 a | 210.7 | 176.5 | 1 |
| 2 | | 0.0 | 54.6 * | 0.0 | 83.7 | 0.0 | 0.0 | 0.0 | 1.5 E | 152.9 a | 210.2 a | 176.0 | 2 |
| 3 | | 0.0 | 55.4 | 0.0 | 77.1 | 0.0 | 0.0 | 0.0 | 1.5 E | 150.0 a | 210.2 a | 153.9 * | 3 |
| 4 | | 0.0 | 55.0 | 0.0 | 42.7 | 0.0 | 0.0 | 0.0 | 1.5 E | 151.1 a | 207.4 a | 121.5 | 4 |
| 5 | | 0.0 | 54.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 E | 154.3 a | 206.0 a | 117.6 | 5 |
| 6 | | 0.0 | 54.2 | 0.0 | 0.0 | 50.3 | 0.0 | 0.0 | 1.5 E | 154.3 a | 206.9 | 117.6 | 6 |
| 7 | | 0.0 | 55.0 | 0.0 | 0.0 | 122.0 | 0.0 | 0.0 | 1.5 E | 154.3 | 211.2 * | 87.6 | 7 |
| 8 | | 0.0 | 55.0 | 12.8 | 0.0 | 119.0 | 0.0 | 0.0 | 1.5 E | 153.4 | 211.7 | 85.1 | 8 |
| 9 | | 0.0 | 54.2 * | 36.6 | 0.0 | 113.7 | 0.0 | 0.0 | 1.5 E | 162.5 | 211.7 | 96.4 | 9 |
| 10 | | 0.0 | 53.4 | 49.3 | 0.0 | 112.8 | 0.0 | 0.0 | 1.5 E | 175.0 | 211.2 | 110.8 | 10 |
| 11 | | 0.0 | 53.4 | 53.0 | 0.0 | 108.9 * | 49.7 | 0.0 | 1.5 E | 204.0 | 211.2 | 110.8 | 11 |
| 12 | | 0.0 | 53.8 | 60.0 | 0.0 | 43.7 | 111.8 | 0.0 | 1.5 E | 203.5 * | 210.2 * | 102.2 | 12 |
| 13 | N | 0.0 | 54.6 | 57.0 | 0.0 | 0.0 | 110.4 | 0.0 | 1.5 E | 197.2 | 210.2 | 94.0 | 13 |
| 14 | O | 0.0 | 53.8 | 56.2 | 0.0 | 0.0 | 108.9 * | 0.0 | 1.5 E | 196.8 | 208.8 | 84.2 | 14 |
| 15 | | 0.0 | 52.6 | 55.0 | 0.0 | 0.0 | 118.5 | 0.0 | 1.5 E | 200.5 | 206.5 | 92.0 | 15 |
| 16 | F | 0.0 | 51.2 | 55.8 | 0.0 | 0.0 | 131.1 | 0.0 | 1.5 E | 202.5 | 187.6 | 93.5 * | 16 |
| 17 | L | 0.0 | 49.3 * | 56.2 | 0.0 | 0.0 | 71.1 | 0.0 | 1.5 E | 210.2 | 164.4 | 97.4 | 17 |
| 18 | O | 0.0 | 50.8 | 56.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 E | 216.4 | 163.9 | 95.5 | 18 |
| 19 | W | 0.0 | 50.0 | 58.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 E | 214.1 | 159.6 * | 97.9 | 19 |
| 20 | | 0.0 | 49.0 | 59.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 E | 214.1 | 158.7 | 100.3 | 20 |
| 21 | | 0.0 | 5.3 | 59.2 * | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 E | 216.9 | 156.3 | 102.2 | 21 |
| 22 | | 0.0 | 0.0 | 56.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 E | 212.6 | 157.2 | 105.0 | 22 |
| 23 | | 0.0 | 0.0 | 57.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 E | 208.8 | 157.2 | 103.6 * | 23 |
| 24 | | 0.0 | 0.0 | 57.9 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 E | 206.9 | 158.2 | 102.2 | 24 |
| 25 | | 0.0 | 0.0 | 58.7 | 0.0 | 0.0 | 0.0 | 0.0 | 56.9 | 202.5 | 162.0 | 101.7 a | 25 |
| 26 | | 46.1 * | 0.0 | 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 153.9 * | 206.9 | 165.4 | 101.2 | 26 |
| 27 | | 50.0 | 0.0 | 56.6 | 0.0 | 0.0 | 0.0 | 0.0 | 145.1 | 209.8 | 123.5 | 101.2 | 27 |
| 28 | | 49.3 | 0.0 | 57.0 | 0.0 | 0.0 | 0.0 | 0.0 | 146.5 | 209.8 | 84.6 | 99.3 | 28 |
| 29 | | 49.7 | 0.0 | 57.9 | | 0.0 | 0.0 | 1.5 E | 147.0 | 208.8 | 139.7 | 96.4 | 29 |
| 30 | | 51.2 | 0.0 | 62.2 | | 0.0 | 0.0 | 1.5 E | 146.0 | 208.4 | 198.2 | 98.8 | 30 |
| 31 | | | | 72.9 | | 0.0 | | 1.5 E | | 209.3 | 198.2 | | 31 |
| MEAN | | 8.2 | 34.5 | 42.7 | 10.2 | 21.6 | 23.4 | 0.1 | 27.7 | 190.9 | 183.2 | 107.4 | MEAN |
| MAX. | | 51.2 | 55.4 | 72.9 | 83.7 | 122.0 | 131.1 | 1.5 E | 147.0 | 216.9 | 211.7 | 176.5 | MAX. |
| MIN. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 E | 148.5 | 84.6 | 84.2 | MIN. |
| AC. FT. | | 489 | 2122 | 2623 | 567 | 1330 | 1391 | 9 | 1649 | 11735 | 11264 | 6392 | AC. FT. |

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *
a - Includes CVP water

| MEAN | MAXIMUM | | | | | MINIMUM | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DISCHARGE | DISCHARGE | GAGE HT. | MO. | DAY | TIME | DISCHARGE | GAGE HT. | MO. | DAY | TIME | ACRE FEET |
| 54.7 | 219 | 7.79 | 7 | 21 | 0600 | 0 | | | | | 39571 |

| 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 | REP. 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 downstream from 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. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.

TABLE B-3 (Cont.)

## AILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C05150 | KERN RIVER NEAR BAKERSFIELD |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 802 | 447 | 435 | 462 | 642 | 1055 | 778 | 846 | 1244 | 1870 | 1997 | 1354 | 1 |
| 2 | 803 | 462 | 453 | 490 | 610 | 1022 | 1232 | 867 | 1272 | 1952 | 1990 | 1362 | 2 |
| 3 | 833 | 474 | 459 | 512 | 608 | 1091 | 732 | 864 | 1219 | 1996 | 1978 | 1478 | 3 |
| 4 | 866 | 460 | 447 | 540 | 603 | 1077 | 657 | 875 | 1208 | 2012 | 1972 | 1564 | 4 |
| 5 | 876 | 461 | 443 | 546 | 615 | 1079 | 689 | 888 | 1262 | 1992 | 1997 | 1580 | 5 |
| 6 | 876 | 449 | 436 | 535 | 631 | 1080 | 679 | 951 | 1468 | 1989 | 1973 | 1516 | 6 |
| 7 | 796 | 444 | 429 | 465 | 631 | 1072 | 658 | 1017 | 1446 | 1982 | 1963 | 1446 | 7 |
| 8 | 504 | 525 | 424 | 477 | 629 | 905 | 645 | 1051 | 1437 | 1984 | 1970 | 1419 | 8 |
| 9 | 560 | 484 | 429 | 486 | 644 | 698 | 721 | 1016 | 1480 | 1977 | 1957 | 1436 | 9 |
| 10 | 510 | 435 | 434 | 474 | 651 | 676 | 699 | 995 | 1511 | 1974 | 1916 | 1382 | 10 |
| 11 | 455 | 380 | 444 | 477 | 648 | 762 | 678 | 953 | 1525 | 1950 | 1905 | 1370 | 11 |
| 12 | 405 | 336 | 389 | 479 | 742 | 778 | 683 | 937 | 1665 | 1949 | 1896 | 1390 | 12 |
| 13 | 350 | 372 | 179 | 488 | 749 | 770 | 653 | 924 | 1807 | 1958 | 1859 | 1376 | 13 |
| 14 | 359 | 378 | 87 | 462 | 825 | 768 | 663 | 929 | 1887 | 1940 | 1825 | 1248 | 14 |
| 15 | 340 | 400 | 441 | 511 | 878 | 774 | 687 | 902 | 1846 | 1954 | 1816 | 1137 | 15 |
| 16 | 324 | 431 | 422 | 563 | 880 | 746 | 819 | 866 | 1855 | 1962 | 1791 | 1125 | 16 |
| 17 | 334 | 378 | 417 | 659 | 949 | 727 | 888 | 830 | 1876 | 1965 | 1739 | 1140 | 17 |
| 18 | 327 | 390 | 419 | 677 | 1074 | 731 | 897 | 832 | 1885 | 1940 | 1715 | 1011 | 18 |
| 19 | 311 | 438 | 423 | 663 | 1070 | 771 | 872 | 805 | 1864 | 1931 | 1706 | 939 | 19 |
| 20 | 311 | 349 | 425 | 660 | 1045 | 781 | 852 | 744 | 1790 | 1918 | 1699 | 897 | 20 |
| 21 | 350 | 393 | 428 | 722 | 1004 | 776 | 882 | 730 | 1781 | 1939 | 1694 | 843 | 21 |
| 22 | 314 | 419 | 431 | 703 | 1003 | 767 | 898 | 752 | 1649 | 1978 | 1664 | 805 | 22 |
| 23 | 326 | 446 | 431 | 660 | 938 | 738 | 896 | 842 | 739 | 1971 | 1597 | 794 | 23 |
| 24 | 372 | 438 | 434 | 652 | 946 | 694 | 896 | 879 | 1871 | 1932 | 1547 | 810 | 24 |
| 25 | 392 | 390 | 430 | 640 | 1031 | 671 | 888 | 899 | 1858 | 1957 | 1526 | 930 | 25 |
| 26 | 385 | 379 | 420 | 634 | 1046 | 663 | 848 | 1010 | 1858 | 1949 | 1526 | 940 | 26 |
| 27 | 338 | 353 | 433 | 666 | 984 | 637 | 830 | 1030 | 1863 | 1957 | 1573 | 937 | 27 |
| 28 | 342 | 389 | 447 | 634 | 1100 | 628 | 802 | 1087 | 1904 | 1950 | 1603 | 936 | 28 |
| 29 | 352 | 393 | 460 | 639 | | 620 | 814 | 1209 | 1884 | 1961 | 1603 | 939 | 29 |
| 30 | 351 | 416 | 462 | 644 | | 636 | 836 | 1222 | 1853 | 1978 | 1571 | 1010 | 30 |
| 31 | 387 | | 475 | 651 | | 636 | | 1226 | | 1973 | 1433 | | 31 |
| MEAN | 479 | 417 | 416 | 576 | 828 | 801 | 792 | 935 | 1627 | 1959 | 1774 | 1170 | MEAN |
| MAX. | 876 | 525 | 475 | 722 | 1100 | 1055 | 1232 | 1226 | 1904 | 2012 | 1997 | 1580 | MAX. |
| MIN. | 311 | 336 | 87 | 462 | 603 | 620 | 645 | 730 | 739 | 1870 | 1433 | 794 | MIN. |
| AC. FT. | 29457 | 24811 | 25579 | 35447 | 45969 | 49248 | 47151 | 57477 | 96807 | 120476 | 109093 | 69648 | AC. FT. |

– ESTIMATED
– 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1000 | 2112 | | 7 | 4 | Daily Mean | 87 | | 12 | 14 | Daily Mean | 711163 |

| 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 25 9 | 118 56 8 | SW 2 29S 28E | 36000<br>9290[a] | 461.37<br>454.94 | 11-19-50<br>12-6-66 | 1893-DATE | | | | 0.0<br>0.0 | Mean sea level |

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Canal and Water Company. Drainage area is 2,407 square miles.

[a]Maximum flow since construction of Isabella Dam in 1954.

TABLE B-3 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | C05180 | KERN RIVER AT SECOND POINT |

| DAY | OCT. | NOV. | DEC. | ** JAN. | ** FEB. | MAR. | ** APR. | ** MAY | ** JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 186 | | 0.0 | 52 | 305 | 230 | 110 | 88 | 410 | 591 | 619 | 296 | 1 |
| 2 | 181 | | 0.0 | 98 | 340 | 251 | 171 | 88 | 436 | 644 | 646 | 295 | 2 |
| 3 | 187 | | 0.0 | 127 | 379 | 256 | 130 | 88 | 463 | 675 | 643 | 296 | 3 |
| 4 | 193 | | 38 | 131 | 361 | 254 | 96 | 101 | 479 | 666 | 636 | 296 | 4 |
| 5 | 206 | | 60 | 131 | 373 | 252 | 90 | 118 | 537 | 598 | 637 | 274 | 5 |
| 6 | 189 | | 63 | 97 | 398 | 259 | 121 | 166 | 636 | 632 | 599 | 243 | 6 |
| 7 | 143 | | 63 | 41 | 401 | 255 | 158 | 215 | 685 | 631 | 610 | 245 | 7 |
| 8 | 38 | | 63 | 39 | 418 | 167 | 160 | 212 | 738 | 616 | 627 | 241 | 8 |
| 9 | 79 | | 63 | 38 | 457 | 111 | 166 | 212 | 745 | 612 | 618 | 241 | 9 |
| 10 | 76 | | 63 | 37 | 486 | 156 | 192 | 213 | 722 | 620 | 611 | 237 | 10 |
| 11 | 66 | | 64 | 36 | 498 | 172 | 207 | 213 | 663 | 626 | 626 | 236 | 11 |
| 12 | 75 | | 64 | 36 | 502 | 168 | 207 | 213 | 582 | 640 | 607 | 238 | 12 |
| 13 | 66 | | 27 | 35 | 500 | 154 | 207 | 215 | 652 | 660 | 615 | 239 | 13 |
| 14 | 45 | N | 6 | 35 | 502 | 114 | 177 | 212 | 764 | 673 | 641 | 238 | 14 |
| 15 | 26 | O | 124 | 35 | 502 | 91 | 155 | 208 | 774 | 658 | 649 | 237 | 15 |
| 16 | 0.0 | | 117 | 32 | 500 | 91 | 156 | 210 | 792 | 596 | 673 | 237 | 16 |
| 17 | 0.0 | F | 117 | 30 | 491 | 65 | 157 | 209 | 744 | 594 | 700 | 207 | 17 |
| 18 | 0.0 | L | 118 | 30 | 436 | 32 | 174 | 212 | 729 | 596 | 687 | 188 | 18 |
| 19 | 0.0 | O | 118 | 30 | 401 | 60 | 174 | 197 | 655 | 611 | 655 | 208 | 19 |
| 20 | 0.0 | W | 78 | 28 | 388 | 92 | 174 | 201 | 608 | 616 | 596 | 214 | 20 |
| 21 | 0.0 | | 49 | 26 | 360 | 87 | 178 | 218 | 580 | 625 | 547 | 165 | 21 |
| 22 | 0.0 | | 49 | 24 | 332 | 86 | 174 | 216 | 416 | 620 | 513 | 122 | 22 |
| 23 | 0.0 | | 49 | 26 | 295 | 88 | 167 | 221 | 277 | 630 | 442 | 149 | 23 |
| 24 | 0.0 | | 48 | 28 | 279 | 92 | 159 | 237 | 617 | 601 | 412 | 146 | 24 |
| 25 | 0.0 | | 48 | 74 | 271 | 95 | 154 | 245 | 591 | 617 | 405 | 167 | 25 |
| 26 | 0.0 | | 47 | 104 | 251 | 87 | 134 | 243 | 567 | 625 | 405 | 184 | 26 |
| 27 | 0.0 | | 46 | 144 | 229 | 83 | 92 | 241 | 585 | 610 | 430 | 188 | 27 |
| 28 | 0.0 | | 44 | 166 | 244 | 111 | 92 | 253 | 612 | 622 | 431 | 174 | 28 |
| 29 | 0.0 | | 42 | 196 | | 98 | 90 | 290 | 571 | 601 | 371 | 149 | 29 |
| 30 | 0.0 | | 42 | 241 | | 107 | 91 | 318 | 553 | 581 | 319 | 159 | 30 |
| 31 | 0.0 | | 46 | 294 | | 88 | | 371 | | 580 | 323 | | 31 |
| MEAN | 56.6 | | 56.6 | 78.7 | 389 | 137 | 150 | 208 | 606 | 622 | 558 | 217 | MEAN |
| MAX. | 206 | | 124 | 294 | 502 | 259 | 207 | 371 | 792 | 675 | 700 | 296 | MAX. |
| MIN. | 0 | | 0 | 24 | 229 | 32 | 90 | 88 | 277 | 580 | 319 | 122 | MIN. |
| AC. FT. | 3484 | | 3483 | ** 4843 | ** 21618 | 8434 | ** 8951 | ** 12781 | ** 36065 | 38220 | 34304 | 12910 | AC. FT. |

** Includes Friant-Kern water

— 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 256 | 792 | | 6 | 16 | Daily Mean | 0 | | 10 | 16 | Daily Mean | 185091 |

| 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 ON GAGE | REF. DATUM |
| 35 18 02 | 119 15 25 | SE23 30S 25E | | | | | | | | | |

Station located 0.5 mile west of Highway 43 on Kern River. Records furnished by Buena Vista Water Storage District. Tabulated discharge is the regulated flow.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | 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 |
| 11 | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | 13 |
| 14 | | | | | | | | | | | | | 14 |
| 15 | | | | | INSUFFICIENT DATA TO PUBLISH | | | | | | | | 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 | | | | | | | | | | | | | 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 *

| 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 | | |
| 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).

## DIVERSIONS

Diversion data formerly collected by the Department of Water Resources for the Stanislaus, Tuolumne, Merced, and San Joaquin Rivers and Dry Creek near Modesto have been discontinued. The last publication of such diversion data was in Bulletin 130-70.

The diversion data shown in Tables B-4 through B-8 have been furnished by the U. S. Bureau of Reclamation, City and County of San Francisco, local agencies including irrigation and water districts, and the Department's Division of Operations and Maintenance. Figures shown are monthly and annual acre-feet amounts of water diverted from the San Joaquin River, deliveries from project canals, deliveries to irrigation districts, and imports to and exports from the San Joaquin Valley.

The diversion data are published as received without rounding according to criteria normally used by the Department.

TABLE B-4

DIVERSIONS - SAN JOAQUIN RIVER
(Fremont Ford Bridge to Gravelly Ford)
October 1973 through September 1974

| 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. | |
| --GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE | 129.5 | | | | | | | | | | | | | | |
| --GAGING STATION - SAN JOAQUIN RIVER NEAR STEVINSON | 136.7 | | | | | | | | | | | | | | |
| --GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS | 186.0 | | | | | | | | | | | | | | |
| San Luis Canal Company | 186.6 L | Gravity | 7900 | 6264 | 1904 | 0 | 5956 | 12914 | 9780 | 22742 | 27830 | 29068 | 27640 | 19418 | 170696 |
| --FIREBAUGH BRIDGE-- | 198.4 | | | | | | | | | | | | | | |
| --GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA | | | | | | | | | | | | | | | |
| --MENDOTA DAM-- | 208.63 | | | | | | | | | | | | | | |
| Central California Irrigation District | 208.8 L | Gravity | 19956* | 7791* | 63 | 966 | 18856 | 45778 | 40828 | 72472 | 76002* | 83587* | 83780* | 43585 | a493664** |
| --FRESNO SLOUGH-- | 209.0 L | | | | | | | | | | | | | | |
| --DELTA-MENDOTA CANAL-- b | (0.2L) | | | | | | | | | | | | | | |
| Firebaugh Canal Company b | (0.4L) | | 1861 | 2027 | 16 | 817 | 4056 | 2235 | 3870 | 8043 | 6006 | 7646 | 6694 | 2624 | a 45895 |
| M. Jensen | | | | | | | | | | | | | | | |
| Dudley, et al, (Marchini Bros) b | (3.4L) | | 0 | 0 | 0 | 0 | 397 | 349 | 0 | 294 | 430 | 270 | 218 | 26 | 1984 |
| State of California Mendota Waterfowl Management b | (6.45-8.20) | | 4479 | 2089 | 723 | 0 | 147 | 659 | 545 | 1537 | 3092 | 1371 | 2799 | 4792 | 22233 |
| Fresno Slough Water District b | (9.20-10.50) | | 0 | 0 | 0 | 0 | 817 | 182 | 321 | 581 | 789 | 938 | 819 | 161 | 4608 |
| --JAMES BYPASS-- b | (11.80R) | | | | | | | | | | | | | | |
| Mason A. Loundy c | | | 268 | 399 | 0 | 0 | 252 | 643 | 391 | 619 | 722 | 1035 | 1152 | 639 | 6120 |
| Reclamation District 1606 c | (1.50) | | 0 | 0 | 0 | 0 | 61 | 0 | 0 | 107 | 194 | 230 | 208 | 0 | 800 |
| James Irrigation District c | (4.4) | | 345 | 0 | 0 | 543 | 6619 | 791 | 811 | 1379 | 4729 | 8817 | 8769 | 1242 | 34045 |
| Tranquillity Irrigation District b | (12.00-13.75) | | 56 | 0 | 0 | 0 | 5911 | 1833 | 1458 | 3027 | 5266 | 7220 | 5814 | 1061 | 31646 |
| Melvin D. Hughes b | (12.20) | | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 26 | 14 | 14 | 0 | 20 | 88 |
| --LONE WILLOW SLOUGH-- | 219.8 R | | | | | | | | | | | | | | |
| Columbia Canal Company | 219.8 R | | 3312 | 936 | 206 | 67 | 3533 | 5584 | 4229 | 7684 | 8934 | 10072 | 9110 | 7037 | 60704 |
| State Center Land Company | | d 1-6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M. Beck | | e 1-8 | 32 | 26 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| Tulle Gun Club | | f 1-8 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 30 | 54 |
| Westlands Water District | | | 0 | 156 | 0 | 0 | 2963 | 3043 | 819 | 2027 | 4288 | 4388 | 2727 | 391 | g 20802 |
| Grasslands | | | 21060 | 4290 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7958 | 33308 |
| J. W. Wilson | | | 0 | 0 | 0 | 0 | 147 | 0 | 0 | 00 | 123 | 171 | 100 | 0 | 541 |
| Laguna Water District | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 280 | 200 | 0 | 680 |
| Tranquillity Gun Club | | | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 0 | 160 |
| Cole Gun Club | | | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| Patos Unlimited | | | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 106 |
| 120 Duck Club | | | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| Pacheco Water District | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2001 | 3499 | 2501 | 0 | 8001 |
| Mercy Springs Water District | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 750 | 750 | 750 | 0 | 2250 |
| --SAN JOAQUIN RIVER AT CHOWCHILLA BYPASS-- | 219.83 | | | | | | | | | | | | | | |
| --GRAVELLY FORD CANAL-- | 232.8 R | | | | | | | | | | | | | | |
| FREMONT FORD BRIDGE TO GRAVELLY FORD | | | | | | | | | | | | | | | |
| Total | | | 59589 | 23978 | 2922 | 2393 | 49729 | 73291 | 63052 | 120538 | 141370 | 159356 | 153371 | 88984 | 938573 |
| Average cubic feet per second | | | 969 | 403 | 48 | 39 | 895 | 1192 | 1060 | 1960 | 2376 | 2592 | 2494 | 1495 | 1296 |
| Monthly use in percent of seasonal | | | 6.3 | 2.6 | 0.3 | 0.3 | 5.3 | 7.8 | 6.7 | 12.8 | 15.1 | 17.0 | 16.3 | 9.5 | |

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and do not include operational spill. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

* Includes purchased and transferred water.

** Includes filling of San Luis Drain -- not charged to District as follows: October, 68 acre-feet; November, 122 acre-feet.

a. Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.

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

c. Plant is located on James Bypass which diverts from Fresno Slough at mile 11.80 R. Distance from Fresno Slough and bank locations of diversions are shown in parentheses.

d. One 6-inch pump located on arm of slough at SW corner of S. 12, T. 14S, R. 15E.

e. One 8-inch pump located on arm of slough 1400 feet S. of NE corner, S. 24, T. 14S, R. 15E.

f. One 8-inch pump located on arm of slough adjacent to M. Beck.

g. Total does not include deliveries under separate agreement by San Luis Water District.

## TABLE B-5

DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
October 1973 through September 1974

| 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[a] | | | | | | | | | | | |
| Total acre-feet diverted | 47613 | 26174 | 0 | 43074 | 137391 | 136467 | 217929 | 230497 | 241499 | 241194 | 242975 | 103055 | 1667868 | Not Available | |
| Average cubic feet per second | 774 | 440 | 0 | 701 | 2470 | 2219 | 3660 | 3750 | 4060 | 3920 | 3950 | 1730 | 2300 | | |
| Monthly use in percent of seasonal | 2.8 | 1.6 | 0 | 2.6 | 8.2 | 8.2 | 13.1 | 13.8 | 14.5 | 14.4 | 14.6 | 6.2 | | | |
| **Madera Canal** | | | | | | | | | | | | | | | |
| Total acre-feet diverted | 20 | 0 | 0 | 29108 | 9031 | 21309 | 37964 | 59386 | 72049 | 79237 | 71202 | 16074 | 395380 | Not Available | |
| Average cubic feet per second | 0.3 | 0 | 0 | 473 | 163 | 347 | 638 | 966 | 1210 | 1290 | 1160 | 270 | 546 | | |
| Monthly use in percent of seasonal | 0 | 0 | 0 | 7.4 | 2.3 | 5.4 | 9.6 | 15.0 | 18.2 | 20.0 | 18.0 | 4.1 | | | |
| **Merced Irrigation District** | | | | Merced River | | | | | | | | | | | |
| Main Canal | 19367 | 2350 | 6587 | 4864 | 3880 | 25686 | 50984 | 105401 | 107218 | 115479 | 106575 | 73435 | b 621826 | c 112121 | 0 |
| Northside Canal | 998 | 2 | 151 | 123 | 99 | 561 | 2061 | 4516 | 4409 | 4709 | 4143 | 3051 | 24823 | c 4663 | 0 |
| Total acre-feet diverted | 20365 | 2352 | 6738 | 4987 | 3979 | 26247 | 53045 | 109917 | 111627 | 120188 | 110718 | 76486 | 646649 | 116784 | |
| Average cubic feet per second | 331 | 40 | 110 | 81 | 72 | 427 | 891 | 1788 | 1876 | 1955 | 1801 | 1285 | 893 | | |
| Monthly use in percent of seasonal | 3.1 | 0.4 | 1.0 | 0.8 | 0.6 | 4.1 | 8.2 | 17.0 | 17.3 | 18.6 | 17.1 | 11.8 | | | |
| **Turlock Irrigation District** | | | | Tuolumne River | | | | | | | | | | | |
| Total acre-feet diverted | 15814 | 8013 | 13494 | 2229 | 7210 | 31089 | 64503 | 97703 | 96616 | 117581 | 98286 | 69139 | d 621677 | e 170343 | |
| Average cubic feet per second | 257 | 135 | 219 | 36 | 130 | 506 | 1084 | 1589 | 1624 | 1912 | 1598 | 1162 | 859 | | |
| Monthly use in percent of seasonal | 2.5 | 1.3 | 2.2 | 0.4 | 1.2 | 5.0 | 10.4 | 15.7 | 15.5 | 18.9 | 15.8 | 11.1 | | | |
| **Modesto Irrigation District** | | | | | | | | | | | | | | | |
| Total acre-feet diverted | 10108 | 9582 | 1109 | 0 | 8622 | 19983 | 32604 | 61133 | 54869 | 58324 | 54825 | 42774 | f 353933 | g 62167 | 524 |
| Average cubic feet per second | 164 | 161 | 18 | 0 | 155 | 325 | 548 | 994 | 922 | 949 | 892 | 719 | 489 | | |
| Monthly use in percent of seasonal | 2.9 | 2.7 | .3 | 0 | 2.4 | 5.6 | 9.2 | 17.3 | 15.5 | 16.5 | 15.5 | 12.1 | | | |
| **Waterford Irrigation District** | | | | | | | | | | | | | | | |
| Total acre-feet diverted | 1161 | 0 | 0 | 0 | 0 | 2673 | 4170 | 7588 | 7451 | 8198 | 7255 | 5324 | h 43820 | i 7521 | 200 |
| Average cubic feet per second | 19 | 0 | 0 | 0 | 0 | 43 | 70 | 123 | 125 | 133 | 118 | 89 | 61 | | |
| Monthly use in percent of seasonal | 2.6 | 0 | 0 | 0 | 0 | 6.1 | 9.5 | 17.3 | 17.0 | 18.7 | 16.6 | 12.2 | | | |
| **Oakdale Irrigation District** | | | | Stanislaus River | | | | | | | | | | | |
| Northside Canal | 2737 | 0 | 0 | 0 | 0 | 2343 | 5939 | 23786 | 23199 | 23064 | 19994 | 19418 | 120480 | j 20100 | Not Available |
| Southside Canal | 4113 | 0 | 0 | 0 | 0 | 1360 | 10778 | 31434 | 31114 | 31767 | 28360 | 27005 | 165931 | k 38650 | |
| Total acre-feet diverted | 6850 | 0 | 0 | 0 | 0 | 3703 | 16717 | 55220 | 54313 | 54831 | 48354 | 46423 | 286411 | m 58750 | |
| Average cubic feet per second | 111 | 0 | 0 | 0 | 0 | 60 | 281 | 898 | 913 | 892 | 786 | 780 | 396 | | |
| Monthly use in percent of seasonal | 2.4 | 0 | 0 | 0 | 0 | 1.3 | 5.8 | 19.3 | 19.0 | 19.1 | 16.9 | 16.2 | | | |
| **South San Joaquin Irrigation District** | | | | | | | | | | | | | | | |
| Total acre-feet diverted | 8594 | 0 | 0 | 0 | 942 | 29265 | 30041 | 54827 | 49641 | 49989 | 39371 | 20989 | 283659 | n 65038 | 230 |
| Average cubic feet per second | 140 | 0 | 0 | 0 | 17 | 476 | 505 | 892 | 834 | 813 | 640 | 353 | 392 | | |
| Monthly use in percent of seasonal | 3.0 | 0 | 0 | 0 | 0.3 | 10.3 | 10.6 | 19.4 | 17.6 | 17.6 | 13.9 | 7.4 | | | |

a Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation. All other data furnished by individual irrigation districts and published as received.
b An additional 63,916 acre-feet of water was pumped from wells.
c Of this acreage, 2,722 were double-cropped. Does not include an undetermined amount of riparian water users acreage.
d. An additional 148,332 acre-feet of water was pumped from wells.
e Of this acreage, 36,535 were double cropped.
f An additional 19,550 acre-feet of water was pumped from wells.
g Of this acreage, 9,000 were double cropped.
h An additional 639 acre-feet of water was pumped from wells.
i Of this acreage, 483 were double cropped.
j Of this acreage, 860 were double cropped.
k Of this acreage, 590 were double cropped.
m This acreage also received 32,618 acre-feet of water from wells and controlled drainage.
n 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, 5,285 were double cropped.

## TABLE B-6

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS

October 1973 through September 1974

| WATER USER | MILEPOST FROM CANAL HEAD | | IN ACRE-FEET | | | | | | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FROM | TO | OCT. | NOV | DEC. | JAN. | FEB | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | |
| | | | | | | | Delta-Mendota Canal | | | | | | | | |
| Plain View Water District | 4.22 | 20.96 | 430 | 5 | 3 | 3 | 196 | 1236 | 1383 | 3335 | 3261 | 3767 | 3352 | 1749 | 18720 |
| The Westside Irrigation District | 14.79 | | 0 | 0 | 0 | 0 | 0 | 49 | 53 | 1874 | 1323 | 2227 | 1505 | 137 | 7169 |
| Hospital Water District | 18.05 | 30.96 | 432 | 6 | 1 | 24 | 934 | 2819 | 2807 | 5124 | 5202 | 5581 | 5066 | 2643 | 30639 |
| Banta-Carbona Irrigation District | 20.42 | | 0 | 0 | 6 | 0 | 422 | 123 | 313 | 3489 | 785 | 3284 | 1950 | 104 | 10476 |
| Kern Canon Water District | 31.31 | 35.18 | 68 | 0 | 0 | 1 | 403 | 929 | 1630 | 909 | 1583 | 1314 | 1287 | 507 | 8631 |
| West Stanislaus Irrigation District | 31.31 | 38.14 | 0 | 2 | 0 | 0 | 0 | 332 | 5004 | 6167 | 8127 | 10333 | 9891 | 646 | 40502 |
| Del Puerto Water District | 35.73 | 42.51 | 69 | 0 | 0 | 2 | 760 | 1461 | 1197 | 3178 | 3257 | 2533 | 2274 | 1228 | 15959 |
| Salado Water District | 42.10 | 46.85 | 2 | 0 | 0 | 0 | 749 | 874 | 1377 | 1940 | 1979 | 2124 | 1587 | 385 | 11017 |
| Patterson Water District | 42.51 | | 76 | 300 | 0 | 0 | 960 | 292 | 545 | 1222 | 1086 | 1083 | 1654 | 116 | 7334 |
| Sunflower Water District | 44.22 | 52.02 | 93 | 0 | 0 | 0 | 411 | 1177 | 1709 | 2368 | 2828 | 2345 | 2472 | 1373 | 14776 |
| Orestimba Water District | 46.83 | 51.41 | 11 | 43 | 0 | 70 | 568 | 1675 | 2527 | 3313 | 2468 | 3299 | 2763 | 861 | 17598 |
| Foothill Water District | 51.65 | 57.46 | 362 | 2 | 3 | 3 | 657 | 948 | 904 | 2107 | 2021 | 2166 | 1643 | 1284 | 12100 |
| Davis Water District | 53.64 | 56.82 | 63 | 0 | 0 | 0 | 284 | 499 | 278 | 917 | 1005 | 908 | 595 | 496 | 5045 |
| Mustang Water District | 56.80 | 62.67 | 147 | 45 | 0 | 0 | 325 | 885 | 891 | 2523 | 2537 | 2545 | 2632 | 1351 | 13881 |
| Central California Irrigation District | 58.26 | 76.06 | 42 | 69 | 4 | 0 | 1057 | 4098 | 3715 | 8795 | 11189 | 11978 | 12550 | 5953 | 59450 |
| Quinto Water District | 64.32 | 67.55 | 27 | 0 | 0 | 0 | 85 | 401 | 516 | 974 | 1198 | 1180 | 1358 | 740 | 6479 |
| Centinella Water District | 66.20 | | 25 | 0 | 0 | 0 | 0 | 78 | 141 | 342 | 419 | 451 | 386 | 201 | 2043 |
| Romero Water District | 66.70 | 68.03 | 44 | 0 | 0 | 0 | 0 | 261 | 388 | 662 | 495 | 479 | 864 | 537 | 3730 |
| San Luis Water District, Municipal and Industrial | 69.21 | | 8 | 2 | 0 | 0 | 2 | 2 | 11 | 18 | 20 | 19 | 19 | 17 | 118 |
| San Luis Water District | 69.21 | 90.53 | 1495 | 1740 | 2549 | 4852 | 8904 | 11288 | 4649 | 9404 | 12722 | 13269 | 12103 | 5438 | 88413 |
| William Affonso | 80.03 | | 0 | 0 | 0 | 0 | 0 | 19 | 19 | 30 | 41 | 34 | 37 | 22 | 202 |
| Grassland Water District | 70.00 | | 11133 | 2245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4241 | 17619 |
| Sam Namburg Farms | 90.53 | | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 4 | 4 | 3 | 5 | 32 |
| Panoche Water District | 93.25 | 96.70 | 3485 | 3054 | 1319 | 881 | 6437 | 7740 | 4159 | 8715 | 9513 | 12169 | 8704 | 2565 | 68740 |
| Eagle Field Water District | 93.27 | 94.57 | 235 | 0 | 0 | 0 | 424 | 568 | 72 | 412 | 811 | 1004 | 944 | 335 | 4805 |
| Oro Loma Water District | 95.50 | 96.62 | 0 | 0 | 0 | 0 | 87 | 53 | 549 | 92[illegible] | 985 | 1029 | 900 | 190 | 4719 |
| West Side Golf Club | 95.95 | | 10 | 7 | 4 | 6 | 7 | 10 | 13 | 25 | 32 | 30 | 23 | 19 | 186 |
| Mercy Springs Water District | 97.70 | 99.81 | 198 | 0 | 0 | 0 | 0 | 174 | 1349 | 248[illegible] | 2439 | 2525 | 2028 | 233 | 11428 |
| Panoche Water District, Municipal and Industrial | 100.84 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 |
| Widren Water District | 102.03 | | 0 | 0 | 0 | 0 | 0 | 42 | 83 | 44[illegible] | 362 | 287 | 359 | 84 | 1666 |
| Broadview Water District | 102.95 | | 715 | 976 | 1529 | 377 | 1202 | 1518 | 449 | 1871 | 3047 | 2558 | 935 | 121 | 15298 |
| Firebaugh Canal Company | 109.45 | | 0 | 0 | 0 | 2608 | 0 | 0 | 327 | 4665 | 6849 | 7321 | 7369 | 54 | 29193 |
| State Fish and Game Salmon Run | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| San Luis Drain | 111.03 | | | | 260 | 61 | 60 | 50 | 6[illegible] | 1140 | 210 | 280 | 180 | 130 | 1433 |
| Total | | | 19173 | 8499 | 5681 | 8890 | 24937 | 39604 | 37123 | 78380 | 87799 | 98126 | 87434 | 33766 | 529412 |
| Net Deliveries DMC to Mendota Pool | | | 71483 | 28251 | 4367 | 0 | 48292 | 77025 | 28838 | 105780 | 96176 | 72816 | 167776 | 102594 | 803388 |
| Net Deliveries DMC to O'Neill Forebay | | | 131065 | 144304 | 87938 | 68541 | 120566 | 47451 | 91509 | 89719 | 85001 | 8122 | 26573 | 62462 | 1052251 |
| | | | | | | | Madera Canal | | | | | | | | |
| Madera Irrigation District | 6.10 | 32.2 | 127 | 0 | 0 | 0 | 6169 | 15241 | 19426 | 32400 | 43216 | 48612 | 39970 | 3329 | 208490 |
| Adobe Ranch | 20.6 | | 0 | 0 | 245 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 | 346 |
| Chowchilla Water District | 35.9 | | 0 | 0 | 0 | 0 | 1002 | 5603 | 5945 | 25770 | 27469 | 30611 | 29964 | 12058 | 138422 |
| Total | | | 127 | 0 | 245 | 2 | 7171 | 20844 | 25371 | 58170 | 70685 | 79223 | 69930 | 15486 | [a]347258 |
| | | | | | | | Millerton Lake | | | | | | | | |
| Fresno County Water Works #18 | | | 7 | 4 | 4 | 2 | 3 | 4 | 6 | 14 | 18 | 19 | 18 | 15 | 114 |
| County of Madera | | | 0 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 14 |
| Total | | | 7 | 6 | 5 | 3 | 3 | 5 | 7 | 15 | 20 | 21 | 20 | 16 | 128 |

## TABLE B-6 (Cont.)

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1973 through September 1974

| WATER USER | MILEPOST FROM CANAL HEAD | | 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 | | 127 | 32 | 0 | 0 | 247 | 99 | 281 | 688 | 663 | 679 | 581 | 340 | 3737 |
| Dog Creek Water District | 14.8 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| International Water District | 14.9 | | 127 | 45 | 0 | 0 | 0 | 44 | 82 | 208 | 189 | 234 | 214 | 165 | 1308 |
| Academy Water District | 17.63 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Round Mountain Ranch | 20.22 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 0 | 9 |
| Consolidated Irrigation District | 28.50 | | 0 | 0 | 0 | 30000 | 14500 | 13000 | 40000 | 0 | 0 | 0 | 0 | 0 | 97500 |
| Last Chance Water Ditch Company | 28.50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Laguna Irrigation District | 28.50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Liberty Water District | 28.50 | | 0 | 0 | 0 | 1500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Corcoran Irrigation District | 28.50 | | 0 | 0 | 0 | 3000 | 2924 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5924 |
| Stratford Irrigation District | 28.50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tulare Lake Basin Water Storage District | 28.50 & 95.64 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alta Irrigation District | 28.50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| City of Fresno | 25.51 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9149 | 11851 | 21000 |
| Fresno Irrigation District | 25.51 & 28.50 | | 13 | 9 | 0 | 0 | 45 | 11293 | 708 | 8 | 4830 | 18205 | 21856 | 26 | 56993 |
| Murphy Slough Association | 28.50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cohn Central Consolidated R.D. #761 | 28.50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Empire Westside Irrigation District | 28.50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kings River Water Association | 28.50 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kings County Water District | 28.50 & 71.29 | | 0 | 0 | 0 | 15000 | 11288 | 2500 | 10000 | 5262 | 882 | 0 | 0 | 0 | 44932 |
| Hills Valley Irrigation District | 41.12 | | 60 | 7 | 0 | 0 | 0 | 0 | 0 | 34 | 110 | 133 | 43 | 0 | 387 |
| Orange Cove Irrigation District | 35.87 | 53.31 | 1236 | 817 | 0 | 0 | 0 | 3 | 543 | 5361 | 5594 | 7378 | 6755 | 5386 | 33073 |
| City of Orange Cove | 43.44 | | 38 | 0 | 0 | 0 | 0 | 8 | 33 | 56 | 60 | 86 | 81 | 61 | 423 |
| Stone Corral Irrigation District | 56.90 | 64.40 | 303 | 117 | 0 | 0 | 0 | 0 | 276 | 1325 | 1569 | 1918 | 2131 | 1104 | 8743 |
| Ivanhoe Irrigation District | 65.04 | 68.13 | 994 | 242 | 0 | 0 | 75 | 0 | 22 | 1434 | 1691 | 2899 | 3359 | 1872 | 12588 |
| Tulare Irrigation District | 68.14 | 71.29 | 0 | 0 | 0 | 0 | 32026 | 17233 | 25054 | 28408 | 24815 | 17869 | 32063 | 9699 | 187167 |
| Lakeside Irrigation District | 69.42 | | 0 | 0 | 0 | 0 | 3685 | 1093 | 407 | 0 | 0 | 0 | 0 | 0 | 5185 |
| Kaweah Delta Water Conservation District | 69.08 | 71.29 | 0 | 0 | 0 | 0 | 0 | 2500 | 28818 | 26027 | 1098 | 0 | 0 | 0 | 58443 |
| Exeter Irrigation District | 72.52 | 79.24 | 1339 | 392 | 0 | 0 | 137 | 334 | 1059 | 3479 | 3869 | 4671 | 4322 | 1755 | 21357 |
| Lewis Creek Water District | 81.54 | | 72 | 52 | 0 | 0 | 0 | 10 | 12 | 218 | 263 | 283 | 307 | 172 | 1389 |
| Lindsay-Strathmore Irrigation District | 85.56 | | 1765 | 811 | 0 | 0 | 0 | 0 | 146 | 92 | 701 | 3593 | 4306 | 4191 | 15605 |
| Lindmore Irrigation District | 86.17 | 91.12 | 2461 | 950 | 0 | 0 | 887 | 1511 | 2375 | 6743 | 9258 | 10780 | 10548 | 5083 | 50596 |
| Porterville Irrigation District | 93.93 | 98.62 | 462 | 393 | 0 | 0 | 1073 | 2543 | 3104 | 3312 | 4400 | 4500 | 3287 | 1954 | 25028 |
| Lower Tule Irrigation District | 95.67 | 98.62 | 10923 | 11082 | 0 | 0 | 16969 | 20858 | 21961 | 34324 | 40465 | 30887 | 30251 | 13447 | 231167 |
| Tea Pot Dome | 99.35 | | 333 | 96 | 0 | 0 | 23 | 8 | 129 | 892 | 860 | 1045 | 1009 | 920 | 5315 |
| Saucelito Irrigation District | 98.62 | 107.37 | 1073 | 233 | 24 | 0 | 1475 | 2904 | 4848 | 5227 | 7484 | 9094 | 8289 | 1219 | 41870 |
| Cloer Community Service District | 101.60 | | 8 | 0 | 0 | 0 | 21 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 49 |
| Terra Bella Irrigation District | 102.65 | | 751 | 388 | 0 | 0 | 0 | 53 | 391 | 3063 | 3088 | 3781 | 3902 | 3178 | 18595 |
| Pixley Irrigation District | 102.69 | | 853 | 0 | 0 | 0 | 1725 | 1432 | 1158 | 3471 | 6159 | 7800 | 7112 | 1204 | 30914 |
| Delano-Earlimart Irrigation District | 109.48 | 118.45 | 5258 | 3579 | 172 | 0 | 5584 | 16379 | 15269 | 20644 | 31688 | 32363 | 24722 | 11823 | 167481 |
| Alpaugh Irrigation District | 112.96 | | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 1000 | 2000 | 2493 | 2559 | 0 | 8252 |
| Southern San Joaquin Municipal Utility District | 117.44 | 127.97 | 3781 | 3298 | 386 | 0 | 3166 | 16273 | 12142 | 16986 | 23856 | 28130 | 22732 | 10055 | 140805 |
| Rag Gulch Water District | 117.96 | | 395 | 192 | 0 | 0 | 307 | 0 | 0 | 0 | 2366 | 0 | 0 | 0 | 3260 |
| Kern County Water Agency | 130.03 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 1000 |
| Shafter-Wasco Irrigation District | 134.42 | 137.17 | 2383 | 1045 | 167 | 24 | 3523 | 6855 | 4007 | 7429 | 11652 | 13743 | 11330 | 4233 | 66391 |
| Rosedale Rio Bravo Water Storage District | 151.81 | | 0 | 0 | 0 | 0 | 4790 | 0 | 11005 | 16370 | 7284 | 0 | 0 | 0 | 39449 |
| Buena Vista Water Storage District | 151.81 | | 0 | 0 | 0 | 0 | 6091 | 0 | 3000 | 3699 | 6243 | 0 | 0 | 0 | 19033 |
| Arvin-Edison Water Storage District | 151.80 | | 9549 | 7664 | 2729 | 282 | 5905 | 18072 | 26630 | 29628 | 30583 | 31744 | 28577 | 7698 | 199061 |
| Styrotek, Inc. | 116.40 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 59 |
| Total | | | 44304 | 31444 | 3478 | 49806 | 116666 | 135005 | 213480 | 226388 | 233720 | 234310 | 239492 | 97495 | [b] 1625588 |

Data furnished by U. S. Bureau of Reclamation. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources. Deliveries do not include operational spill.

a Does not include construction water. Hidden and Buchanan Dams as follows: October - 55 acre-feet; November - 4 acre-feet; December - 17 acre-feet; January - 1 acre-foot; February - 5 acre-feet; March - 9 acre-feet; April - 1 acre-foot; August - 159 acre-feet; and September - 53 acre-feet.

b Does not include operational spill as follows: November - 2 acre-feet; January - 696 acre-feet; February - 2 acre-feet; March - 2 acre-feet; and April - 3 acre-feet.

## TABLE B-7

DELIVERIES FROM CALIFORNIA AQUEDUCT[a]
October 1973 through September 1974

| WATER USER | IN ACRE-FEET | | | | | | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCT. | NOV. | DEC. | JAN. | FEB | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | |
| Delta Pumping Plant (Inflow to California Aqueduct) | 151403 | 105858 | 109092 | 44480 | 110652 | 116664 | 90266 | 158441 | 262445 | 361355 | 283352 | 91071 | 1885079 |
| | | | | | North San Joaquin Division | | | | | | | | |
| South Bay Pumping Plant | 4216 | 6831 | 6186 | 1200 | 2135 | 387 | 2809 | 9760 | 10976 | 12306 | 7134 | 6238 | 70178 |
| Oak Flat Water District | 12 | 0 | 0 | 0 | 395 | 499 | 751 | 1301 | 1308 | 1127 | 1131 | 268 | 6792 |
| Tracy Golf & Country Club | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5 | 5 |
| Total | 4228 | 6831 | 6186 | 1200 | 2530 | 886 | 3560 | 11061 | 12284 | 13433 | 8265 | 6511 | 76975 |
| California Aqueduct at Check 12 (Inflow to San Luis Field Division) | 147601 | 98614 | 102813 | 42874 | 108069 | 115162 | 86733 | 146992 | 249254 | 347305 | 274295 | 84114 | 1803826 |
| | | | | | O'Neill Forebay[b] | | | | | | | | |
| San Luis Water District | 53 | 77 | 7 | 105 | 428 | 382 | 589 | 795 | 788 | 758 | 774 | 301 | 5057 |
| | | | | | San Luis Division[b] | | | | | | | | |
| San Luis Water District | 76 | 18 | 336 | 1143 | 2141 | 1404 | 452 | 715 | 1467 | 2050 | 1314 | 332 | 11448 |
| Panoche Water District | 1547 | 5035 | 4009 | 2151 | 3277 | 4819 | 1624 | 2215 | 3287 | 7602 | 5085 | 941 | 41592 |
| Westlands Water District | 23113 | 22112 | 54758 | 65247 | 109819 | 111226 | 60466 | 87478 | 156260 | 181413 | 152345 | 38212 | 1062449[c] |
| City of Huron | 57 | 46 | 29 | 25 | 26 | 34 | 48 | 67 | 72 | 88 | 75 | 108 | 675 |
| Avenal Community Service District | 35 | 21 | 19 | 20 | 22 | 27 | 43 | 62 | 75 | 84 | 81 | 66 | 555 |
| Total | 24828 | 27232 | 59151 | 68586 | 115285 | 117510 | 62633 | 90537 | 161161 | 191237 | 158900 | 39659 | 1116719 |
| | | | | | South San Joaquin Division | | | | | | | | |
| Tulare Lake Basin Water Storage District | 16545 | 16528 | 13485 | 3297 | 7824 | 2077 | 1927 | 7 | 2250 | 18809 | 26052 | 18254 | 127055 |
| Empire West Side Irrigation District | 17 | 188 | 698 | 0 | 40 | 579 | 425 | 0 | 171 | 1091 | 861 | 131 | 4201 |
| Kings County | 165 | 165 | 165 | 165 | 165 | 165 | 15 | 0 | 165 | 165 | 165 | 165 | 1665 |
| Dudley Ridge Water District | 2798 | 577 | 2323 | 683 | 2485 | 4977 | 4589 | 5980 | 10919 | 12105 | 12151 | 5116 | 64703 |
| Hacienda Water District | 2619 | 1520 | 3281 | 0 | 850 | 455 | 74 | 0 | 0 | 744 | 355 | 1000 | 10898 |
| Kern County Water Agency | 17504 | 17978 | 15822 | 10101 | 39593 | 45777 | 32499 | 50044 | 90947 | 108969 | 97281 | 32592 | 559107 |
| Boswell Farms[d] | 0 | 0 | 0 | 998 | 499 | 290 | 713 | 0 | 0 | 0 | 0 | 0 | 2500 |
| Buena Vista Water Storage District[d] | 0 | 0 | 0 | 0 | 25 | 494 | 776 | 1445 | 1032 | 1529 | 1757 | 782 | 7840 |
| Total | 39648 | 36956 | 35774 | 15244 | 51481 | 54814 | 41018 | 57476 | 105484 | 143412 | 138622 | 58040 | 777969 |
| | | | | | Coastal Branch | | | | | | | | |
| Devil's Den Water District | 420 | 236 | 1378 | 1147 | 906 | 2250 | 1613 | 611 | 1369 | 2185 | 2279 | 243 | 14637 |
| Kern County Water Agency | 2430 | 734 | 1850 | 240 | 4729 | 9096 | 7464 | 13494 | 16834 | 22546 | 18810 | 4497 | 102724 |
| Green Valley Water District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 390 | 526 | 675 | 0 | 1741 |
| Total | 2850 | 970 | 3228 | 1387 | 5635 | 11346 | 9077 | 14255 | 18593 | 25257 | 21764 | 4740 | 119102 |

Data furnished by the Division of Operations and Maintenance.

a Entitlement and Surplus water have been combined in this table and do not include operational losses.
b Deliveries made by U. S. Bureau of Reclamation.
c Includes deliveries to City of Coalinga and San Luis Drain.
d Repayment of Preconsolidation water

## TABLE B-8

IMPORTS AND EXPORTS

October 1973 through September 1974

| WATER USER | IN ACRE-FEET | | | | | | | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCT. | NOV. | DEC. | JAN. | FEB | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | |
| | | | | | | Imports from Delta | | | | | | | |
| California Aqueduct (a) | 147175 | 99027 | 102906 | 43280 | 108122 | 115778 | 86706 | 147380 | 250161 | 347922 | 275087 | 84560 | 1808104 |
| Delta Mendota Canal | 205685 | 178062 | 95351 | 75824 | 192893 | 260573 | 152530 | 269287 | 261529 | 276533 | 277914 | 197568 | 2443749 |
| Total Imports | 352860 | 277089 | 198257 | 119104 | 301015 | 376351 | 239236 | 416667 | 511690 | 624455 | 553001 | 282128 | 4251853 |
| | | | | | | Exports | | | | | | | |
| City and County of San Francisco (b) | 16778 | 2901 | 20287 | 11354 | 1670 | 14066 | 14456 | 14982 | 22519 | 27037 | 28242 | 26820 | 201112 |
| A. D. Edmonston Pumping Plant (c) | 52075 | 52274 | 68465 | 25315 | 43534 | 60606 | 41999 | 56167 | 64659 | 61603 | 61705 | 44412 | 632814 |
| Total Exports | 68853 | 55175 | 88752 | 36669 | 45204 | 74672 | 56455 | 71149 | 87178 | 88640 | 89947 | 71232 | 833926 |

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tuolumne River exports furnished by City and County of San Francisco. Data for California Aqueduct furnished by Department of Water Resources, Division of Operations and Maintenance. Acre-feet values are published as received and not rounded to the criteria normally used by the Department of Water Resources.

(a) Water pumped at Delta Pumping Plant less deliveries to South Bay Aqueduct, Oak Flat Water District, and Tracy Golf and County Club.

(b) Exports from Tuolumne River.

(c) Deliveries to Southern California.

## DAILY MEAN GAGE HEIGHTS

Presented in Table B-9 are records of daily mean gage heights for key stations on major streams in the San Joaquin Valley for the 1973-74 water year.

At the bottom of the stage tables are shown the major river crests occurring for the 1973-74 water year. The table also shows the location of the station, maximum gage height of record, period of record, and datum of gage. 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. Gage height for stage tables is computed from recorder charts and is reported to one-hundredth of a foot.

TABLE B-9

DAILY MEAN GAGE HEIGHT
(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | 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 |
| 10 | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | 13 |
| 14 | | | | | | | | | | | | | 14 |
| 15 | | | | | | LAKE DRY | | | | | | | 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 | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | 29 |
| 30 | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | 31 |

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

E — ESTIMATED

NR — NO RECORD

NE — 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 | | |
| 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 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company.

TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07885 | SAN JOAQUIN RIVER BELOW FRIANT |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.32 | 1.74 | 1.84 | 1.87 | 4.21 | 2.08 | 2.35 | 3.49 | 2.80 | 2.38 | 2.38 | 2.23 | 1 |
| 2 | 2.33 | 1.73 | 1.83 | 1.87 | 3.74 | 2.14 | 2.80 | 3.49 | 3.76 | 2.42 | 2.39 | 2.23 | 2 |
| 3 | 2.33 | 1.73 | 1.83 | 1.86 | 3.39 | 2.44 | 2.40 | 3.50 | 4.24 | 2.48 | 2.38 | 2.24 | 3 |
| 4 | 2.33 | 1.73 | 1.83 | 1.90 | 3.19 | 2.20 | 2.29 | 3.22 | 4.24 | 2.48 | 2.38 | 2.24 | 4 |
| 5 | 2.33 | 1.73 | 1.83 | 1.93 | 2.96 | 1.96 | 2.23 | 2.50 | 4.23 | 2.48 | 2.38 | 2.24 | 5 |
| 6 | 2.30 | 1.78 | 1.83 | 1.99 | 2.39 | 1.93 | 2.64 | 2.38 | 4.20 | 2.32 | 2.38 | 2.19 | 6 |
| 7 | 2.27 | 1.93 | 1.84 | 2.27 | 1.88 | 1.92 | 3.14 | 2.36 | 4.21 | 2.43 | 2.37 | 2.14 | 7 |
| 8 | 2.28 | 1.94 | 1.85 | 2.18 | 1.89 | 2.06 | 3.13 | 2.36 | 4.21 | 2.43 | 2.37 | 2.14 | 8 |
| 9 | 2.27 | 2.03 | 1.85 | 2.10 | 1.89 | 2.05 | 3.14 | 2.36 | 4.21 | 2.43 | 2.37 | 2.13 | 9 |
| 10 | 2.27 | 2.11 | 1.85 | 2.23 | 1.98 | 2.04 | 3.13 | 2.36 | 3.91 | 2.43 | 2.36 | 2.13 | 10 |
| 11 | 2.23 | 2.12 | 1.84 | 2.17 | 2.08 | 2.02 | 3.12 | 2.36 | 3.09 | 2.44 | 2.36 | 2.13 | 11 |
| 12 | 2.18 | 2.12 | 1.84 | 2.18 | 2.09 | 1.99 | 3.10 | 2.36 | 2.40 | 2.46 | 2.36 | 2.13 | 12 |
| 13 | 2.18 | 2.12 | 1.84 | 2.15 | 2.15 | 1.97 | 3.44 | 2.34 | 2.26 | 2.45 | 2.35 | 2.13 | 13 |
| 14 | 2.18 | 2.12 | 1.84 | 2.14 | 2.13 | 1.97 | 3.96 | 2.32 | 2.11 | 2.44 | 2.34 | 2.13 | 14 |
| 15 | 2.19 | 2.12 | 1.84 | 2.13 | 2.12 | 1.96 | 3.95 | 2.34 | 2.14 | 2.43 | 2.34 | 2.13 | 15 |
| 16 | 2.19 | 2.07 | 1.84 | 2.22 | 2.12 | 1.97 | 3.69 | 2.39 | 2.15 | 2.44 | 2.34 | 2.13 | 16 |
| 17 | 2.19 | 1.98 | 1.84 | 2.33 | 2.09 | 1.96 | 3.49 | 2.39 | 2.16 | 2.43 | 2.33 | 2.13 | 17 |
| 18 | 2.15 | 1.98 | 1.84 | 2.67 | 2.04 | 1.96 | 3.52 | 2.39 | 2.15 | 2.41 | 2.34 | 2.13 | 18 |
| 19 | 2.10 | 1.97 | 1.85 | 3.35 | 2.05 | 1.96 | 3.52 | 2.39 | 2.17 | 2.41 | 2.34 | 2.13 | 19 |
| 20 | 2.08 | 1.97 | 1.85 | 3.70 | 2.06 | 1.95 | 3.52 | 2.39 | 2.26 | 2.41 | 2.32 | 2.13 | 20 |
| 21 | 2.05 | 1.92 | 1.85 E | 4.07 | 2.05 | 1.94 | 3.51 | 2.39 | 2.37 | 2.41 | 2.32 | 2.13 | 21 |
| 22 | 2.02 | 1.79 | 1.85 E | 4.48 | 2.04 | 1.92 | 3.51 | 2.40 | 2.37 | 2.41 | 2.32 | 2.13 | 22 |
| 23 | 1.97 | 1.78 | 1.85 E | 4.64 | 2.03 | 1.93 | 3.51 | 2.40 | 2.43 | 2.40 | 2.32 | 2.13 | 23 |
| 24 | 1.96 | 1.88 | 1.85 E | 4.63 | 2.05 | 1.92 | 3.51 | 2.40 | 2.30 | 2.40 | 2.31 | 2.12 | 24 |
| 25 | 1.96 | 1.90 | 1.85 E | 4.62 | 2.06 | 1.91 | 3.51 | 2.40 | 2.18 | 2.39 | 2.31 | 2.16 | 25 |
| 26 | 1.95 | 1.82 | 1.89 E | 4.62 | 2.06 | 1.92 | 3.51 | 2.40 | 2.21 | 2.39 | 2.29 | 2.20 | 26 |
| 27 | 1.92 | 1.80 | 1.92 | 4.61 | 2.06 | 1.93 | 3.51 | 2.47 | 2.20 | 2.39 | 2.25 | 2.20 | 27 |
| 28 | 1.87 | 1.80 | 1.88 | 4.56 | 2.06 | 2.07 | 3.50 | 2.49 | 2.29 | 2.39 | 2.25 | 2.21 | 28 |
| 29 | 1.87 | 1.81 | 1.86 | 4.55 | | 2.03 | 3.49 | 2.50 | 2.38 | 2.38 | 2.24 | 2.21 | 29 |
| 30 | 1.86 | 1.83 | 1.85 | 4.55 | | 2.03 | 3.49 | 2.51 | 2.39 | 2.38 | 2.23 | 2.21 | 30 |
| 31 | 1.85 | | 1.84 | 4.37 | | 2.02 | | 2.52 | | 2.38 | 2.24 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-22-74 | 1800 | 4.66 | 4-13-74 | 1700 | 3.96 | | | | | | |
| 1-24-74 | 1700 | 4.66 | 4-14-74 | 2400 | 3.96 | | | | | | |
| 4- 2-74 | 0130 | 3.54 | 6- 2-74 | 2400 | 4.25 | | | | | | |

| 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 | | |
| 36 59 04 | 119 43 24 | SW 7 11S 21E | 77,000 | 23.8 | 12-11-37 | OCT 07-DATE | | 1938 | | 294.00 | USGS |
| | | | 12,400[a] | 11.69 | 6-6-69 | | | | | | |

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

[a] Maximum flows since construction of Friant Dam in 1944.

## TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07400 | SAN JOAQUIN RIVER NEAR STEVINSON |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 61.50 | 61.55 | 61.44 | 65.42 | 67.21 | 61.33 | 64.45 | 62.38 | 61.12 | 61.09 | 60.99 | 61.53 | 1 |
| 2 | 61.59 | 61.49 | 61.66 | 65.27 | 66.78 | 61.30 | 65.42 | 62.20 | 61.08 | 61.10 | 60.92 | 61.66 | 2 |
| 3 | 61.83 | 61.41 | 61.96 | 65.22 | 66.48 | 61.71 | 67.78 | 61.92 | 61.12 | 61.00 | 61.00 | 61.82 | 3 |
| 4 | 61.78 | 61.37 | 62.89 | 64.83 | 65.38 | 65.08 | 70.62 | 61.73 | 61.22 | 60.88 | 61.07 | 61.82 | 4 |
| 5 | 61.60 | 61.28 | 62.45 | 64.99 | 64.57 | 68.43 | 69.96 | 61.81 | 61.41 | 60.82 | 61.01 | 61.78 | 5 |
| 6 | 61.72 | 61.10 | 62.20 | 65.48 | 64.10 | 68.32 | 68.80 | 62.08 | 61.55 | 60.79 | 60.99 | 61.87 | 6 |
| 7 | 62.22 | 61.43 | 61.77 | 66.00 | 63.78 | 67.00 | 67.88 | 62.21 | 61.48 | 60.81 | 60.92 | 61.87 | 7 |
| 8 | 63.81 | 62.95 | 61.55 | 68.13 | 63.37 | 65.88 | 67.06 | 62.12 | 61.47 | 60.84 | 60.90 | 61.83 | 8 |
| 9 | 64.92 | 63.20 | 61.48 | 68.80 | 63.29 | 66.02 | 66.16 | 61.76 | 61.31 | 60.81 | 60.92 | 61.92 | 9 |
| 10 | 64.77 | 62.94 | 61.41 | 68.56 | 63.25 | 66.26 | 65.87 | 61.50 | 61.21 | 60.84 | 60.90 | 61.81 | 10 |
| 11 | 64.25 | 62.62 | 61.43 | 67.60 | 63.18 | 66.16 | 65.44 | 61.40 | 61.20 | 61.36 | 60.92 | 61.74 | 11 |
| 12 | 63.60 | 62.38 | 61.45 | 66.71 | 63.19 | 65.18 | 65.52 | 61.32 | 61.23 | 61.73 | 60.99 | 61.72 | 12 |
| 13 | 63.57 | 62.24 | 61.61 | 66.17 | 63.01 | 64.24 | 65.32 | 61.26 | 61.21 | 62.21 | 61.05 | 61.58 | 13 |
| 14 | 63.54 | 61.66 | 62.63 | 65.84 | 62.77 | 63.14 | 64.37 | 61.28 | 61.18 | 62.25 | 61.07 | 61.50 | 14 |
| 15 | 63.28 | 61.49 | 62.89 | 65.54 | 62.65 | 62.68 | 63.91 | 61.21 | 61.16 | 62.08 | 61.12 | 61.49 | 15 |
| 16 | 63.00 | 61.48 | 62.62 | 65.36 | 62.59 | 62.39 | 64.26 | 61.15 | 61.15 | 61.63 | 61.21 | 61.67 | 16 |
| 17 | 62.85 | 61.46 | 62.39 | 64.95 | 62.45 | 62.22 | 64.22 | 61.28 | 61.08 | 61.42 | 61.36 | 61.87 | 17 |
| 18 | 62.84 | 61.64 | 62.35 | 64.49 | 62.35 | 62.11 | 63.91 | 61.29 | 61.09 | 61.40 | 61.34 | 61.88 | 18 |
| 19 | 62.81 | 61.83 | 61.86 | 65.43 | 62.23 | 62.13 | 63.27 | 61.33 | 61.12 | 61.29 | 61.29 | 61.86 | 19 |
| 20 | 62.63 | 61.79 | 61.59 | 67.16 | 62.13 | 61.92 | 62.78 | 61.35 | 61.14 | 61.17 | 61.34 | 61.78 | 20 |
| 21 | 62.45 | 61.72 | 61.70 | 67.44 | 62.10 | 61.76 | 62.60 | 61.44 | 61.13 | 61.03 | 61.44 | 61.82 | 21 |
| 22 | 61.90 | 61.70 | 63.36 | 67.59 | 61.89 | 61.80 | 62.35 | 61.35 | 61.06 | 60.87 | 61.55 | 61.78 | 22 |
| 23 | 61.62 | 61.63 | 64.27 | 67.94 | 61.78 | 61.74 | 62.30 | 61.28 | 61.05 | 60.91 | 61.62 | 61.71 | 23 |
| 24 | 61.50 | 61.46 | 63.92 | 68.05 | 61.67 | 61.58 | 62.25 | 61.58 | 61.08 | 61.03 | 61.43 | 61.70 | 24 |
| 25 | 61.82 | 61.50 | 63.09 | 68.59 | 61.61 | 61.54 | 62.09 | 61.80 | 61.14 | 61.06 | 61.45 | 61.56 | 25 |
| 26 | 62.24 | 61.50 | 62.76 | 66.95 | 61.54 | 61.56 | 62.01 | 61.77 | 61.11 | 61.01 | 61.73 | 61.56 | 26 |
| 27 | 62.05 | 61.55 | 63.02 | 67.35 | 61.51 | 61.63 | 61.87 | 61.80 | 61.10 | 60.93 | 62.01 | 61.67 | 27 |
| 28 | 61.91 | 61.52 | 65.60 | 67.23 | 61.38 | 62.45 | 61.88 | 61.68 | 61.10 | 60.82 | 61.72 | 62.13 | 28 |
| 29 | 61.81 | 61.46 | 67.83 | 67.11 | | 63.68 | 62.12 | 61.45 | 61.02 | 60.80 | 61.57 | 62.32 | 29 |
| 30 | 61.72 | 61.45 | 67.53 | 67.04 | | 63.51 | 62.32 | 61.28 | 61.03 | 60.92 | 61.69 | 62.36 | 30 |
| 31 | 61.60 | | 66.44 | 67.18 | | 64.00 | | 61.15 | | 60.99 | 61.55 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 4-74 | 1345 | 70.80 | | | | | | | | | |
| 1-25-74 | 0245 | 69.03 | | | | | | | | | |
| 3- 5-74 | 2100 | 68.76 | | | | | | | | | |

| 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 | 26740 | 76.23 | 2-26-69 | OCT 61-DATE | MAY 61-SEP 61 | 1961 | | 0.00 | USCGS |

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.

## TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07375 | SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 55.90 | 55.50 | 55.72 | 59.00 | 60.57 | 56.30 | 58.18 | 56.50 | 55.73 | 55.35 | 55.34 | 56.03 | 1 |
| 2 | 55.93 | 55.43 | 55.78 | 58.48 | 60.18 | 56.26 | 58.68 | 56.40 | 55.69 | 55.43 | 55.29 | 56.05 | 2 |
| 3 | 55.66 | 55.37 | 55.86 | 58.54 | 60.02 | 56.24 | 59.89 | 56.23 | 55.75 | 55.36 | 55.23 | 56.26 | 3 |
| 4 | 55.56 | 55.24 | 56.03 | 58.25 | 59.21 | 57.38 | 62.60 | 56.04 | 55.76 | 55.26 | 55.37 | 56.23 | 4 |
| 5 | 55.48 | 55.05 | 56.17 | 58.08 | 58.41 | 60.52 | 63.04 | 56.01 | 55.76 | 55.19 | 55.36 | 56.17 | 5 |
| 6 | 55.49 | 54.98 | 55.97 | 58.43 | 57.89 | 61.58 | 62.45 | 56.17 | 55.62 | 55.25 | 55.39 | 56.05 | 6 |
| 7 | 55.65 | 55.06 | 55.77 | 58.76 | 57.60 | 60.93 | 61.64 | 56.39 | 55.55 | 55.37 | 55.39 | 56.00 | 7 |
| 8 | 56.23 | 55.67 | 55.59 | 60.27 | 57.29 | 59.76 | 60.95 | 56.16 | 55.54 | 55.47 | 55.32 | 55.95 | 8 |
| 9 | 56.63 | 56.16 | 55.48 | 61.76 | 57.06 | 59.47 | 60.06 | 55.92 | 55.63 | 55.57 | 55.23 | 55.86 | 9 |
| 10 | 56.72 | 56.16 | 55.38 | 61.92 | 56.97 | 59.85 | 59.58 | 55.74 | 55.64 | 55.69 | 55.23 | 55.81 | 10 |
| 11 | 56.76 | 56.03 | 55.37 | 61.46 | 56.92 | 59.91 | 59.15 | 55.67 | 55.79 | 55.85 | 55.28 | 55.61 | 11 |
| 12 | 56.42 | 55.93 | 55.43 | 60.57 | 56.96 | 59.32 | 58.96 | 55.64 | 55.62 | 56.08 | 55.33 | 55.42 | 12 |
| 13 | 56.35 | 55.87 | 55.53 | 59.84 | 56.90 | 58.47 | 58.94 | 55.63 | 55.45 | 56.28 | 55.30 | 55.36 | 13 |
| 14 | 56.32 | 55.74 | 55.76 | 59.41 | 56.90 | 57.74 | 58.25 | 55.59 | 55.27 | 56.46 | 55.29 | 55.38 | 14 |
| 15 | 56.28 | 55.63 | 56.23 | 59.06 | 56.83 | 57.31 | 57.68 | 55.53 | 55.19 | 56.34 | 55.35 | 55.38 | 15 |
| 16 | 56.15 | 55.67 | 56.18 | 58.89 | 56.83 | 57.09 | 57.64 | 55.43 | 55.33 | 56.20 | 55.34 | 55.55 | 16 |
| 17 | 55.96 | 55.71 | 56.01 | 58.63 | 56.85 | 56.91 | 57.64 | 55.29 | 55.40 | 55.74 | 55.37 | 55.82 | 17 |
| 18 | 55.78 | 55.76 | 55.97 | 58.26 | 56.82 | 56.82 | 57.38 | 55.47 | 55.51 | 55.64 | 55.50 | 55.90 | 18 |
| 19 | 55.78 | 55.82 | 55.86 | 58.29 | 56.66 | 56.79 | 57.06 | 55.64 | 55.66 | 55.57 | 55.63 | 55.79 | 19 |
| 20 | 55.72 | 55.90 | 55.64 | 59.87 | 56.68 | 56.72 | 56.76 | 55.71 | 55.68 | 55.55 | 55.61 | 55.84 | 20 |
| 21 | 55.71 | 55.94 | 55.67 | 60.64 | 56.67 | 56.59 | 56.74 | 55.84 | 55.70 | 55.53 | 55.75 | 55.85 | 21 |
| 22 | 55.68 | 55.81 | 56.16 | 60.90 | 56.62 | 56.53 | 56.76 | 56.02 | 55.70 | 55.48 | 55.88 | 55.88 | 22 |
| 23 | 55.60 | 55.71 | 57.07 | 61.17 | 56.42 | 56.46 | 56.67 | 55.93 | 55.63 | 55.32 | 55.98 | 55.89 | 23 |
| 24 | 55.51 | 55.64 | 57.13 | 61.34 | 56.32 | 56.33 | 56.59 | 55.87 | 55.59 | 55.46 | 55.89 | 55.81 | 24 |
| 25 | 55.51 | 55.58 | 56.75 | 61.83 | 56.32 | 56.36 | 56.40 | 56.00 | 55.65 | 55.45 | 55.79 | 55.61 | 25 |
| 26 | 55.57 | 55.62 | 56.43 | 60.98 | 56.34 | 56.44 | 56.41 | 56.13 | 55.72 | 55.24 | 55.80 | 55.58 | 26 |
| 27 | 55.64 | 55.60 | 56.47 | 60.72 | 56.44 | 56.54 | 56.42 | 56.23 | 55.59 | 55.24 | 56.00 | 55.58 | 27 |
| 28 | 55.64 | 55.65 | 57.54 | 60.68 | 56.38 | 56.75 | 56.35 | 56.26 | 55.47 | 55.17 | 55.94 | 55.81 | 28 |
| 29 | 55.60 | 55.63 | 59.86 | 60.52 | | 57.43 | 56.35 | 56.14 | 55.42 | 55.14 | 55.77 | 56.14 | 29 |
| 30 | 55.55 | 55.66 | 60.77 | 60.41 | | 57.90 | 56.48 | 55.96 | 55.32 | 55.16 | 55.90 | 56.31 | 30 |
| 31 | 55.55 | | 60.04 | 60.42 | | 58.00 | | 55.78 | | 55.21 | 56.05 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 5-74 | 0230 | 63.14 | | | | | | | | | |
| 1-25-74 | 1300 | 61.98 | | | | | | | | | |
| 3- 6-74 | 0830 | 61.66 | | | | | | | | | |

| 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 | | | FRDM | TO | | |
| 37 18 35 | 120 55 45 | | 9180a | 68.05 | 2-26-69 | 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 upstream from the Merced River. Drainage area is approximately 8,090 square miles.

a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B05170 | MERCED RIVER BELOW SNELLING |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.29 | 5.46 | 8.10 | 9.67 | 9.27 | 7.29 | 7.05 | 8.42 | 8.24 | 6.46 | 6.27 | 6.32 | 1 |
| 2 | 6.28 | 5.43 | 8.06 | 9.45 | 9.26 | 7.31 | 7.03 | 8.31 | 8.21 | 6.47 | 6.20 | 6.31 | 2 |
| 3 | 6.27 | 5.42 | 8.03 | 9.29 | 9.27 | 7.39 | 6.93 | 8.07 | 8.18 | 6.42 | 6.24 | 6.29 | 3 |
| 4 | 6.28 | 5.42 | 8.04 | 9.34 | 8.78 | 8.21 | 6.84 | 7.91 | 8.18 | 6.44 | 6.35 | 6.27 | 4 |
| 5 | 6.29 | 5.44 | 8.06 | 9.23 | 8.26 | 9.28 | 6.84 | 7.91 | 8.24 | 6.46 | 6.32 | 6.35 | 5 |
| 6 | 6.22 | 5.53 | 8.04 | 9.45 | 8.28 | 9.26 | 6.83 | 7.92 | 8.32 | 6.48 | 6.35 | 6.52 | 6 |
| 7 | 6.87 | 6.57 | 8.03 | 9.49 | 8.27 | 8.87 | 6.85 | 8.08 | 9.36 | 6.51 | 6.35 | 6.51 | 7 |
| 8 | 7.39 | 6.46 | 8.03 | 9.35 | 8.12 | 8.41 | 6.88 | 8.14 | 11.42 | 6.55 | 6.31 | 6.49 | 8 |
| 9 | 7.44 | 6.88 | 8.01 | 9.31 | 7.52 | 7.37 | 6.93 | 8.12 | 11.43 | 6.53 | 6.29 | 6.44 | 9 |
| 10 | 7.47 | 7.48 | 7.88 | 9.31 | 7.43 | 7.31 | 6.83 | 8.10 | 10.32 | 6.52 | 6.27 | 6.35 | 10 |
| 11 | 7.08 | 7.46 | 7.16 | 9.31 | 7.80 | 7.94 | 6.95 | 8.10 | 8.81 | 6.53 | 6.27 | 6.23 | 11 |
| 12 | 6.58 | 7.44 | 6.93 | 9.31 | 8.04 | 7.77 | 6.92 | 8.12 | 8.76 | 6.51 | 6.30 | 6.25 | 12 |
| 13 | 6.47 | 7.42 | 7.31 | 9.29 | 7.82 | 7.00 | 6.91 | 8.07 | 9.01 | 6.48 | 6.33 | 6.26 | 13 |
| 14 | 6.48 | 7.42 | 7.89 | 9.29 | 7.82 | 6.95 | 6.86 | 8.07 | 9.99 | 6.48 | 6.28 | 6.22 | 14 |
| 15 | 6.54 | 7.43 | 7.91 | 9.29 | 7.76 | 6.96 | 6.69 | 8.05 | 9.53 | 6.41 | 6.34 | 6.25 | 15 |
| 16 | 6.11 | 7.74 | 7.91 | 9.30 | 7.44 | 6.80 | 6.96 | 8.07 | 8.67 | 6.44 | 6.26 | 6.23 | 16 |
| 17 | 6.24 | 8.55 | 7.92 | 9.29 | 7.40 | 6.82 | 6.89 | 8.11 | 8.49 | 6.55 | 6.40 | 6.23 | 17 |
| 18 | 6.59 | 9.07 | 7.92 | 9.30 | 7.56 | 6.89 | 6.87 | 8.09 | 7.73 | 6.49 | 6.39 | 6.26 | 18 |
| 19 | 6.60 | 10.10 | 7.92 | 9.29 | 7.71 | 6.98 | 6.92 | 8.05 | 6.67 | 6.47 | 6.42 | 6.25 | 19 |
| 20 | 6.62 | 9.86 | 7.92 | 9.28 | 7.48 | 6.94 | 6.96 | 8.07 | 6.59 | 6.55 | 6.43 | 6.28 | 20 |
| 21 | 6.63 | 9.11 | 7.95 | 9.28 | 7.46 | 6.89 | 6.97 | 8.12 | 6.51 | 6.52 | 6.35 | 6.29 | 21 |
| 22 | 6.65 | 8.72 | 7.94 | 9.28 | 7.45 | 6.83 | 6.97 | 7.76 | 6.44 | 6.50 | 6.33 | 6.32 | 22 |
| 23 | 6.67 | 8.63 | 7.93 | 9.28 | 7.42 | 6.81 | 6.95 | 7.27 | 6.54 | 6.45 | 6.35 | 6.33 | 23 |
| 24 | 6.54 | 8.67 | 7.91 | 9.28 | 7.37 | 6.76 | 6.98 | 7.19 | 6.52 | 6.40 | 6.41 | 6.33 | 24 |
| 25 | 5.97 | 8.69 | 7.92 | 9.28 | 7.36 | 6.67 | 6.97 | 7.11 | 6.51 | 6.37 | 6.38 | 6.19 | 25 |
| 26 | 6.63 | 8.67 | 7.94 | 9.28 | 7.37 | 6.70 | 8.02 | 7.14 | 6.42 | 6.44 | 6.41 | 6.19 | 26 |
| 27 | 6.64 | 8.38 | 9.05 | 9.27 | 7.33 | 6.78 | 8.80 | 7.13 | 6.39 | 6.43 | 6.42 | 6.26 | 27 |
| 28 | 6.21 | 8.05 | 9.71 | 9.28 | 7.23 | 6.90 | 8.78 | 7.12 | 6.45 | 6.42 | 6.38 | 6.34 | 28 |
| 29 | 5.55 | 8.02 | 9.65 | 9.27 | | 6.93 | 8.70 | 7.75 | 6.51 | 6.39 | 6.36 | 6.38 | 29 |
| 30 | 5.49 | 8.04 | 9.64 | 9.28 | | 6.93 | 8.53 | 8.27 | 6.52 | 6.38 | 6.32 | 6.40 | 30 |
| 31 | 5.47 | | 9.61 | 9.27 | | 6.87 | | 8.22 | | 6.36 | 6.30 | | 31 |

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-19-73 | 0330 | 10.15 | | | | | | | | | |
| 6-10-74 | 1515 | 11.53 | | | | | | | | | |

E — ESTIMATED

NR — NO RECORD

NE — 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 30 06 | 120 27 03 | NE17 5S 14E | 14500 | 17.10 | 1-7-65 | NOV 58-DATE | | 1958 | | 221.12 | USGS |

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

## TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B05155 | MERCED RIVER AT CRESSEY |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.23 | 11.39 | 12.93 | 15.16 | 14.47 | 11.80 | 11.52 | 13.13 | 12.58 | 10.92 | 10.84 | 10.96 | 1 |
| 2 | 11.15 | 11.38 | 12.91 | 15.26 | 14.46 | 11.84 | 12.07 | 13.09 | 12.67 | 10.85 | 10.79 | 10.94 | 2 |
| 3 | 11.10 | 11.36 | 12.83 | 14.70 | 14.45 | 12.06 | 11.87 | 12.84 | 12.60 | 10.82 | 10.77 | 10.88 | 3 |
| 4 | 11.13 | 11.31 | 12.83 | 14.65 | 14.44 | 12.43 | 11.58 | 12.61 | 12.57 | 10.81 | 10.82 | 10.85 | 4 |
| 5 | 11.17 | 11.31 | 12.83 | 14.70 | 13.36 | 13.81 | 11.49 | 12.47 | 12.55 | 10.81 | 10.89 | 10.82 | 5 |
| 6 | 11.25 | 11.31 | 12.84 | 14.87 | 13.10 | 14.27 | 11.44 | 12.42 | 12.57 | 10.82 | 10.84 | 10.85 | 6 |
| 7 | 11.37 | 11.58 | 12.81 | 15.71 | 13.07 | 14.25 | 11.42 | 12.42 | 12.74 | 10.89 | 10.77 | 10.97 | 7 |
| 8 | 12.12 | 12.16 | 12.82 | 15.42 | 12.98 | 13.85 | 11.45 | 12.52 | 15.81 | 10.96 | 10.79 | 11.01 | 8 |
| 9 | 12.19 | 12.15 | 12.81 | 14.78 | 12.61 | 13.08 | 11.49 | 12.51 | 17.58 | 11.01 | 10.82 | 10.97 | 9 |
| 10 | 12.28 | 12.17 | 12.82 | 14.66 | 12.13 | 12.10 | 11.47 | 12.50 | 17.66 | 11.12 | 10.81 | 10.98 | 10 |
| 11 | 12.34 | 12.21 | 12.44 | 14.63 | 12.04 | 11.98 | 11.42 | 12.47 | 14.52 | 11.05 | 10.85 | 10.98 | 11 |
| 12 | 11.85 | 12.23 | 11.80 | 14.64 | 12.70 | 12.90 | 11.53 | 12.45 | 13.47 | 11.08 | 10.90 | 10.90 | 12 |
| 13 | 11.53 | 12.18 | 11.63 | 14.65 | 12.54 | 12.09 | 11.52 | 12.50 | 13.27 | 11.01 | 10.83 | 10.92 | 13 |
| 14 | 11.39 | 12.18 | 12.18 | 14.60 | 12.40 | 11.64 | 11.50 | 12.43 | 14.42 | 10.97 | 10.83 | 10.95 | 14 |
| 15 | 11.34 | 12.16 | 12.59 | 14.58 | 12.39 | 11.56 | 11.45 | 12.40 | 15.23 | 10.95 | 10.84 | 10.93 | 15 |
| 16 | 11.35 | 12.18 | 12.62 | 14.56 | 12.20 | 11.50 | 11.39 | 12.38 | 13.88 | 10.90 | 10.91 | 10.92 | 16 |
| 17 | 11.38 | 12.82 | 12.63 | 14.56 | 11.99 | 11.39 | 11.51 | 12.38 | 13.22 | 10.87 | 10.91 | 10.86 | 17 |
| 18 | 11.93 | 13.65 | 12.64 | 14.56 | 11.92 | 11.40 | 11.50 | 12.45 | 12.80 | 10.94 | 10.96 | 10.88 | 18 |
| 19 | 12.27 | 14.94 | 12.63 | 14.65 | 12.28 | 11.48 | 11.43 | 12.50 | 11.83 | 10.96 | 10.99 | 10.84 | 19 |
| 20 | 12.31 | 15.78 | 12.62 | 14.61 | 12.15 | 11.50 | 11.50 | 12.48 | 11.30 | 10.99 | 10.99 | 10.88 | 20 |
| 21 | 12.34 | 15.12 | 12.66 | 14.53 | 12.00 | 11.50 | 11.55 | 12.50 | 11.16 | 10.99 | 11.01 | 10.95 | 21 |
| 22 | 12.37 | 14.07 | 12.73 | 14.53 | 12.00 | 11.42 | 11.56 | 12.53 | 11.04 | 10.98 | 10.92 | 10.98 | 22 |
| 23 | 12.43 | 13.73 | 12.67 | 14.51 | 11.96 | 11.34 | 11.52 | 11.98 | 11.06 | 10.97 | 10.86 | 10.99 | 23 |
| 24 | 12.45 | 13.67 | 12.67 | 14.50 | 11.92 | 11.32 | 11.56 | 11.71 | 11.06 | 10.91 | 10.88 | 10.95 | 24 |
| 25 | 12.21 | 13.67 | 12.65 | 14.50 | 11.89 | 11.29 | 11.59 | 11.66 | 10.99 | 10.87 | 10.90 | 10.95 | 25 |
| 26 | 11.90 | 13.68 | 12.67 | 14.50 | 11.88 | 11.26 | 11.65 | 11.65 | 10.95 | 10.80 | 10.91 | 10.89 | 26 |
| 27 | 12.35 | 13.66 | 13.21 | 14.51 | 11.88 | 11.19 | 13.24 | 11.67 | 10.90 | 10.84 | 10.91 | 10.88 | 27 |
| 28 | 12.42 | 13.13 | 15.06 | 14.49 | 11.80 | 11.36 | 13.63 | 11.58 | 10.87 | 10.89 | 10.92 | 10.91 | 28 |
| 29 | 11.88 | 12.89 | 15.22 | 14.49 | | 11.47 | 13.51 | 11.55 | 10.86 | 10.95 | 10.90 | 11.01 | 29 |
| 30 | 11.55 | 12.85 | 15.12 | 14.47 | | 11.48 | 13.46 | 12.33 | 10.87 | 10.87 | 10.92 | 11.03 | 30 |
| 31 | 11.45 | | 15.05 | 14.47 | | 11.47 | | 12.55 | | 10.88 | 10.99 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-30-74 | 2300 | 15.48 | | | | | | | | | |
| 6-10-74 | 1800 | 17.80 | | | | | | | | | |

| 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 25 28 | 120 39 47 | SW 9 6S 12E | 34400 | 22.67 | 12-4-50 | JUL 41-DATE | APR 41-JUL 41 | 1950 | 1962 | 96.24 | USCGS |
| | | | | 32.67a | 12-4-50 | | | 1962 | | 86.23 | USCGS |

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.

a Reflects present datum.

## TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07300 | SAN JOAQUIN RIVER NEAR NEWMAN |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 48.86 | 49.19 | 50.49 | 54.07 | 54.34 | 49.95 | 50.92 | 51.15 | 50.13 | 48.88 | 48.66 | 49.11 | 1 |
| 2 | 48.99 | 49.10 | 50.57 | 53.75 | 54.20 | 49.93 | 51.17 | 50.89 | 50.17 | 48.90 | 48.62 | 49.24 | 2 |
| 3 | 48.84 | 49.05 | 50.60 | 53.72 | 54.04 | 49.99 | 51.74 | 50.78 | 50.29 | 48.82 | 48.59 | 49.22 | 3 |
| 4 | 48.71 | 48.98 | 50.68 | 53.34 | 53.74 | 50.44 | 53.38 | 50.68 | 50.27 | 48.72 | 48.62 | 49.20 | 4 |
| 5 | 48.69 | 48.88 | 50.72 | 53.12 | 53.23 | 51.92 | 54.83 | 50.56 | 50.15 | 48.66 | 48.71 | 49.16 | 5 |
| 6 | 48.69 | 48.81 | 50.58 | 53.21 | 52.32 | 53.93 | 54.87 | 50.50 | 50.07 | 48.69 | 48.72 | 49.06 | 6 |
| 7 | 49.01 | 48.82 | 50.48 | 53.60 | 51.87 | 54.36 | 54.11 | 50.58 | 50.09 | 48.80 | 48.70 | 48.99 | 7 |
| 8 | 49.44 | 49.04 | 50.36 | 54.58 | 51.65 | 53.68 | 53.23 | 50.47 | 50.32 | 48.88 | 48.60 | 49.05 | 8 |
| 9 | 50.06 | 49.65 | 50.29 | 55.46 | 51.40 | 53.11 | 52.44 | 50.40 | 52.33 | 49.12 | 48.60 | 49.07 | 9 |
| 10 | 50.35 | 49.81 | 20.21 | 55.66 | 51.07 | 52.99 | 52.01 | 50.23 | 53.77 | 49.17 | 48.54 | 49.06 | 10 |
| 11 | 50.26 | 49.86 | 50.17 | 55.50 | 50.79 | 52.60 | 51.73 | 50.21 | 53.93 | 49.39 | 48.59 | 49.06 | 11 |
| 12 | 20.07 | 49.90 | 49.97 | 54.93 | 50.71 | 52.31 | 51.48 | 50.21 | 52.00 | 49.54 | 48.68 | 48.94 | 12 |
| 13 | 49.88 | 49.90 | 49.71 | 54.36 | 50.93 | 52.09 | 51.43 | 50.20 | 50.99 | 49.55 | 48.70 | 48.76 | 13 |
| 14 | 49.72 | 49.85 | 49.65 | 53.99 | 50.83 | 51.23 | 51.07 | 50.20 | 50.70 | 49.55 | 48.65 | 48.75 | 14 |
| 15 | 49.64 | 49.77 | 50.00 | 53.72 | 50.72 | 50.70 | 50.68 | 50.18 | 51.46 | 49.40 | 48.67 | 48.79 | 15 |
| 16 | 49.50 | 49.76 | 50.17 | 53.56 | 50.72 | 50.42 | 50.43 | 50.07 | 51.98 | 49.06 | 48.71 | 48.91 | 16 |
| 17 | 49.39 | 49.82 | 50.10 | 53.43 | 50.62 | 50.28 | 50.37 | 49.85 | 51.32 | 48.94 | 48.64 | 48.98 | 17 |
| 18 | 49.29 | 50.15 | 50.09 | 53.25 | 50.43 | 50.29 | 50.25 | 49.83 | 50.82 | 48.86 | 48.79 | 49.13 | 18 |
| 19 | 49.52 | 50.68 | 50.08 | 53.16 | 50.38 | 50.18 | 50.12 | 49.98 | 50.56 | 48.74 | 48.97 | 49.09 | 19 |
| 20 | 49.70 | 51.78 | 50.00 | 53.77 | 50.51 | 50.15 | 49.91 | 50.15 | 49.95 | 48.70 | 48.92 | 49.10 | 20 |
| 21 | 49.74 | 52.46 | 50.02 | 54.43 | 50.42 | 50.12 | 49.90 | 50.26 | 49.61 | 48.73 | 48.94 | 49.13 | 21 |
| 22 | 49.77 | 52.10 | 50.17 | 54.68 | 50.29 | 50.14 | 50.04 | 50.40 | 49.42 | 48.71 | 49.03 | 49.18 | 22 |
| 23 | 49.01 | 51.39 | 50.64 | 54.88 | 50.20 | 49.98 | 50.03 | 50.33 | 49.28 | 48.77 | 49.08 | 49.30 | 23 |
| 24 | 49.75 | 51.01 | 50.78 | 55.03 | 50.15 | 49.87 | 50.00 | 49.98 | 49.28 | 48.76 | 49.02 | 49.27 | 24 |
| 25 | 49.77 | 50.91 | 50.66 | 55.22 | 50.12 | 49.86 | 49.91 | 49.88 | 49.20 | 48.71 | 49.02 | 49.10 | 25 |
| 26 | 49.77 | 50.96 | 50.48 | 55.19 | 50.08 | 49.89 | 49.89 | 49.76 | 49.14 | 48.58 | 49.07 | 49.06 | 26 |
| 27 | 49.61 | 50.94 | 50.57 | 54.65 | 50.10 | 49.90 | 49.95 | 49.82 | 49.04 | 48.60 | 49.07 | 49.06 | 27 |
| 28 | 49.71 | 50.96 | 51.77 | 54.57 | 50.05 | 50.01 | 50.70 | 49.74 | 48.91 | 48.63 | 49.03 | 49.05 | 28 |
| 29 | 49.75 | 50.65 | 54.06 | 54.45 | | 50.40 | 51.11 | 49.62 | 48.85 | 48.62 | 48.99 | 49.10 | 29 |
| 30 | 49.56 | 50.48 | 54.81 | 54.34 | | 50.70 | 51.18 | 49.57 | 48.85 | 47.59 | 49.04 | 49.32 | 30 |
| 31 | 49.31 | | 54.62 | 54.27 | | 50.73 | | 49.98 | | 48.59 | 49.18 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-10-74 | 1630 | 55.69 | | | | | | | | | |
| 3- 7-74 | 0300 | 54.48 | | | | | | | | | |
| 4- 5-74 | 2200 | 55.02 | | | | | | | | | |

| 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 | 34700a | 65.90 | 2-26-69 | APR 12-DATE | | 1912 | | 47.24 | USCGS |
| | | | | | | | | | 1959 | 47.31 | USCGS |
| | | | | | | | | 1959 | | 0.00 | USCGS |

Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,520 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". Flows regulated by upstream reservoirs and diversions.

a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (34,700 cfs) includes flow in Merced River Slough.

## TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07200 | SAN JOAQUIN RIVER AT PATTERSON BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 33.66 | 33.56 | 34.55 | 38.19 | 38.44 | 33.98 | 35.25 | 34.97 | 34.09 | 33.16 | 33.00 | 33.52 | 1 |
| 2 | 33.68 | 33.48 | 34.55 | 37.78 | 38.43 | 34.05 | 35.48 | 34.82 | 34.24 | 33.11 | 33.01 | 33.47 | 2 |
| 3 | 33.73 | 33.41 | 34.59 | 37.67 | 38.26 | 34.54 | 35.76 | 34.67 | 34.36 | 32.99 | 32.91 | 33.52 | 3 |
| 4 | 33.67 | 33.34 | 34.60 | 37.54 | 38.10 | 34.79 | 36.61 | 34.65 | 34.34 | 33.02 | 32.93 | 33.41 | 4 |
| 5 | 33.60 | 33.29 | 34.66 | 37.28 | 37.72 | 35.34 | 38.17 | 34.66 | 34.20 | 33.01 | 32.94 | 33.33 | 5 |
| 6 | 33.54 | 33.24 | 34.61 | 37.28 | 37.04 | 36.86 | 38.85 | 34.64 | 34.06 | 33.01 | 32.91 | 33.42 | 6 |
| 7 | 33.78 | 33.21 | 34.53 | 37.57 | 36.32 | 38.13 | 38.72 | 34.70 | 34.12 | 33.02 | 32.92 | 33.35 | 7 |
| 8 | 34.36 | 33.26 | 34.45 | 38.24 | 36.00 | 38.23 | 37.99 | 34.66 | 34.25 | 33.23 | 32.88 | 33.29 | 8 |
| 9 | 34.53 | 33.57 | 34.37 | 39.07 | 35.72 | 37.56 | 37.09 | 34.57 | 34.98 | 33.43 | 32.95 | 33.31 | 9 |
| 10 | 34.80 | 33.84 | 34.31 | 39.50 | 35.43 | 37.52 | 36.50 | 34.41 | 36.66 | 33.52 | 32.98 | 33.36 | 10 |
| 11 | 34.86 | 33.93 | 34.26 | 39.62 | 35.09 | 37.14 | 36.28 | 34.37 | 37.44 | 33.48 | 33.01 | 33.42 | 11 |
| 12 | 34.72 | 33.97 | 34.20 | 39.41 | 34.91 | 36.73 | 35.91 | 34.50 | 36.90 | 33.60 | 33.02 | 33.41 | 12 |
| 13 | 34.45 | 33.99 | 33.99 | 38.87 | 34.96 | 36.46 | 35.73 | 34.53 | 35.47 | 33.79 | 32.93 | 33.25 | 13 |
| 14 | 34.29 | 33.98 | 33.84 | 38.39 | 35.00 | 35.97 | 35.43 | 34.44 | 34.96 | 33.82 | 33.00 | 33.24 | 14 |
| 15 | 34.22 | 33.94 | 33.93 | 38.06 | 34.85 | 35.19 | 35.07 | 34.47 | 35.11 | 33.66 | 33.00 | 33.28 | 15 |
| 16 | 34.04 | 33.88 | 34.17 | 37.81 | 34.79 | 34.81 | 34.66 | 34.32 | 35.96 | 33.48 | 33.03 | 33.35 | 16 |
| 17 | 33.81 | 33.92 | 34.19 | 37.67 | 34.76 | 34.63 | 34.45 | 34.17 | 35.83 | 33.30 | 33.02 | 33.40 | 17 |
| 18 | 33.68 | 34.00 | 34.15 | 37.55 | 34.59 | 34.55 | 34.35 | 34.04 | 35.14 | 33.12 | 33.11 | 33.51 | 18 |
| 19 | 33.70 | 34.35 | 34.14 | 37.40 | 34.48 | 34.43 | 34.31 | 34.26 | 34.95 | 33.05 | 33.25 | 33.58 | 19 |
| 20 | 33.85 | 34.85 | 34.11 | 37.53 | 34.36 | 34.32 | 34.16 | 34.46 | 34.59 | 32.98 | 33.27 | 33.61 | 20 |
| 21 | 33.90 | 35.75 | 34.09 | 38.14 | 34.38 | 34.22 | 34.17 | 34.35 | 34.15 | 33.01 | 33.15 | 33.59 | 21 |
| 22 | 33.94 | 36.01 | 34.15 | 38.56 | 34.28 | 34.19 | 34.24 | 34.46 | 33.81 | 33.08 | 33.16 | 33.61 | 22 |
| 23 | 33.96 | 35.58 | 34.36 | 38.81 | 34.13 | 34.17 | 34.15 | 34.39 | 33.69 | 33.00 | 33.19 | 33.78 | 23 |
| 24 | 33.96 | 35.09 | 34.62 | 39.00 | 34.06 | 34.14 | 34.12 | 34.27 | 33.69 | 32.89 | 33.20 | 33.67 | 24 |
| 25 | 33.94 | 34.87 | 34.64 | 39.11 | 34.07 | 34.10 | 34.11 | 34.04 | 33.49 | 32.92 | 33.27 | 33.57 | 25 |
| 26 | 33.97 | 34.85 | 34.52 | 39.32 | 34.02 | 34.09 | 33.99 | 34.02 | 33.47 | 32.89 | 33.36 | 33.59 | 26 |
| 27 | 33.88 | 34.88 | 34.61 | 39.02 | 34.01 | 34.12 | 34.02 | 33.93 | 33.39 | 32.82 | 33.24 | 33.63 | 27 |
| 28 | 33.84 | 34.89 | 35.18 | 38.75 | 33.98 | 34.47 | 34.38 | 33.85 | 33.23 | 32.86 | 33.29 | 33.56 | 28 |
| 29 | 33.90 | 34.81 | 36.72 | 38.66 | | 34.74 | 34.84 | 33.80 | 33.19 | 33.02 | 33.30 | 33.57 | 29 |
| 30 | 33.89 | 34.57 | 37.98 | 38.54 | | 35.02 | 34.97 | 33.76 | 33.22 | 32.94 | 33.29 | 33.77 | 30 |
| 31 | 33.68 | | 38.38 | 38.45 | | 35.01 | | 33.85 | | 32.92 | 33.38 | | 31 |

### MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-11-74 | 0945 | 39.64 | | | | | | | | | |
| 4- 6-74 | 1330 | 38.93 | | | | | | | | | |
| 2- 2-74 | 0215 | 38.47 | | | | | | | | | |

E — ESTIMATED

NR — NO RECORD

NE — 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 29 52 | 121 04 52 | SW15 5S 8E | | 54.0 | 6-13-38 | | APR 38-SEP 66 | 1938 | 1959 | 0.00 | USED |
| | | | | 50.47a | 6-13-38 | OCT 69-DATE | | 1959 | | 0.00 | USCGS |
| | | | 5460b | 42.65 | 3- 9-70 | | | 1959 | | 3.53 | USED |

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.

a Reflects present datum.
b Maximum discharge since station was rated in October 1969

TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B04150 | TUOLUMNE RIVER AT HICKMAN BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 70.11 | 72.85 | 71.16 | 71.12 | 72.64 | 71.27 | 70.59 | 69.98 | 69.73 | 69.69 | 69.68 | 71.02 | 1 |
| 2 | 71.40 | 72.43 | 71.05 | 71.38 | 72.11 | 71.48 | 70.47 | 69.74 | 69.72 | 69.90 | 70.05 | 71.02 | 2 |
| 3 | 72.11 | 72.28 | 71.03 | 72.99 | 71.39 | 71.09 | 70.15 | 69.68 | 69.68 | 69.68 | 70.38 | 71.04 | 3 |
| 4 | 73.88 | 72.04 | 71.10 | 73.42 | 71.25 | 71.03 | 70.01 | 69.68 | 70.16 | 69.96 | 69.74 | 71.28 | 4 |
| 5 | 71.53 | 71.93 | 71.09 | 73.21 | 72.42 | 71.42 | 70.00 | 69.68 | 70.30 | 69.67 | 69.66 | 71.28 | 5 |
| 6 | 71.36 | 71.81 | 71.09 | 72.61 | 72.48 | 71.86 | 69.99 | 69.68 | 70.19 | 69.67 | 70.05 | 71.24 | 6 |
| 7 | 71.56 | 71.24 | 71.18 | 72.35 | 72.35 | 72.11 | 69.98 | 69.66 | 70.25 | 69.64 | 70.40 | 71.29 | 7 |
| 8 | 70.84 | 71.16 | 71.12 | 73.35 | 72.24 | 72.26 | 69.97 | 70.08 | 69.75 | 69.60 | 70.16 | 71.12 | 8 |
| 9 | 70.83 | 71.14 | 71.02 | 73.22 | 71.90 | 71.66 | 69.99 | 70.17 | 69.69 | 69.95 | 69.75 | 71.03 | 9 |
| 10 | 71.33 | 71.14 | 71.01 | 73.25 | 71.33 | 71.09 | 69.98 | 69.77 | 69.67 | 69.77 | 69.68 | 71.54 | 10 |
| 11 | 71.33 | 71.09 | 71.10 | 73.06 | 71.15 | 71.13 | 69.97 | 69.71 | 70.31 | 69.61 | 69.64 | 71.73 | 11 |
| 12 | 71.33 | 71.10 | 71.37 | 72.46 | 72.20 | 71.45 | 69.98 | 69.70 | 70.08 | 69.59 | 69.63 | 71.45 | 12 |
| 13 | 71.32 | 71.18 | 71.35 | 71.52 | 72.36 | 71.42 | 69.97 | 69.69 | 69.91 | 69.59 | 69.62 | 71.32 | 13 |
| 14 | 71.33 | 71.14 | 71.16 | 71.45 | 72.34 | 71.45 | 69.97 | 69.67 | 69.71 | 69.59 | 70.91 | 71.11 | 14 |
| 15 | 70.95 | 71.13 | 71.09 | 72.66 | 72.26 | 71.06 | 69.97 | 69.65 | 69.64 | 69.59 | 71.13 | 71.02 | 15 |
| 16 | 72.15 | 71.13 | 70.91 | 72.64 | 71.84 | 71.02 | 69.97 | 69.64 | 69.64 | 69.57 | 71.16 | 71.08 | 16 |
| 17 | 72.90 | 71.15 | 70.76 | 72.62 | 71.28 | 70.91 | 69.96 | 69.65 | 69.65 | 69.58 | 71.13 | 72.58 | 17 |
| 18 | 72.94 | 71.10 | 70.86 | 72.51 | 70.63 | 70.77 | 70.04 | 69.67 | 69.63 | 69.59 | 71.12 | 73.04 | 18 |
| 19 | 72.83 | 71.08 | 70.86 | 72.15 | 70.82 | 70.92 | 70.03 | 69.68 | 69.63 | 70.08 | 70.90 | 73.16 | 19 |
| 20 | 72.33 | 71.13 | 71.01 | 71.43 | 71.12 | 70.88 | 69.95 | 69.68 | 69.62 | 70.35 | 70.86 | 73.12 | 20 |
| 21 | 71.76 | 71.13 | 71.58 | 71.46 | 71.28 | 70.61 | 69.96 | 69.65 | 69.61 | 69.87 | 70.98 | 72.99 | 21 |
| 22 | 70.90 | 71.12 | 71.45 | 72.68 | 71.40 | 70.58 | 69.96 | 69.65 | 69.63 | 69.68 | 71.07 | 72.67 | 22 |
| 23 | 71.25 | 71.05 | 70.99 | 72.62 | 71.15 | 70.58 | 69.96 | 69.65 | 69.64 | 70.25 | 71.15 | 72.72 | 23 |
| 24 | 72.55 | 71.13 | 70.80 | 72.67 | 70.88 | 70.57 | 69.96 | 69.88 | 69.61 | 70.44 | 71.18 | 73.04 | 24 |
| 25 | 72.68 | 71.05 | 70.84 | 72.65 | 70.75 | 70.69 | 69.97 | 69.76 | 69.56 | 70.62 | 71.06 | 73.10 | 25 |
| 26 | 73.07 | 71.06 | 70.84 | 72.31 | 71.18 | 70.74 | 69.96 | 69.73 | 69.59 | 70.67 | 71.11 | 72.93 | 26 |
| 27 | 72.76 | 71.11 | 71.69 | 71.53 | 71.09 | 70.71 | 69.97 | 69.70 | 69.59 | 70.14 | 71.17 | 72.84 | 27 |
| 28 | 72.23 | 71.13 | 71.62 | 71.48 | 71.03 | 70.85 | 69.98 | 69.68 | 69.58 | 69.73 | 71.08 | 72.73 | 28 |
| 29 | 72.08 | 71.11 | 71.14 | 72.68 | | 70.56 | 69.97 | 69.66 | 70.06 | 69.65 | 71.05 | 72.50 | 29 |
| 30 | 73.09 | 71.11 | 70.89 | 72.68 | | 70.55 | 69.97 | 69.66 | 70.14 | 69.61 | 71.05 | 72.68 | 30 |
| 31 | 73.07 | | 70.85 | 72.73 | | 70.54 | | 69.64 | | 69.67 | 71.03 | | 31 |

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1- 4-74 | 0330 | 74.37 | | | | | | | | | |
| 10- 4-74 | 0500 | 74.25 | | | | | | | | | |

E — ESTIMATED

NR — NO RECORD

NE — 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 38 10 | 120 45 14 | NW34 3S 11E | 59000 | 96.2 | 12-8-50 | JUL 32-OCT 36<br>JAN 37-MAR 37<br>JUL 37-FEB 38<br>JUL 38-DEC 38<br>MAR 39-DATE | | 1932 | | -1.13 | USCGS |

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. Drainage area is 1,655 square miles. 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-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B04130 | DRY CREEK NEAR MODESTO |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 68.13 | 67.67 | 67.80 | 68.92 | 67.83 | 67.83 | 68.51 | 68.29 | 68.50 | 68.26 | 68.22 | 68.25 | 1 |
| 2 | 68.15 | 67.65 | 67.85 | 70.74 | 67.82 | 71.41 | 73.36 | 68.29 | 68.48 | 68.33 | 68.26 | 68.28 | 2 |
| 3 | 68.18 | 67.64 | 67.85 | 69.17 | 67.79 | 74.07 | 72.68 | 68.38 | 68.48 | 68.34 | 68.20 | 68.46 | 3 |
| 4 | 68.22 | 67.64 | 67.87 | 68.64 | 67.77 | 74.44 | 69.48 | 68.47 | 68.49 | 68.34 | 68.38 | 68.39 | 4 |
| 5 | 68.25 | 67.65 | 68.61 | 68.48 | 67.76 | 70.53 | 68.85 | 68.37 | 68.42 | 68.32 | 68.35 | 68.30 | 5 |
| 6 | 68.21 | 67.71 | 68.95 | 68.97 | 67.74 | 68.98 | 68.57 | 68.51 | 68.32 | 68.27 | 68.28 | 68.59 | 6 |
| 7 | 68.37 | 67.69 | 68.90 | 73.01 | 67.73 | 68.65 | 68.47 | 68.43 | 68.32 | 68.25 | 68.20 | 69.15 | 7 |
| 8 | 69.98 | 67.67 | 68.88 | 71.87 | 67.72 | 68.83 | 68.37 | 68.28 | 68.30 | 68.25 | 68.23 | 69.18 | 8 |
| 9 | 69.53 | 67.66 | 68.85 | 69.90 | 67.72 | 71.20 | 68.31 | 68.33 | 68.40 | 68.45 | 68.23 | 69.13 | 9 |
| 10 | 68.50 | 67.65 | 68.85 | 68.94 | 67.71 | 69.17 | 68.40 | 68.39 | 68.32 | 68.93 | 68.10 | 69.16 | 10 |
| 11 | 68.08 | 67.64 | 68.85 | 68.59 | 67.67 | 68.74 | 68.28 | 68.36 | 68.28 | 68.78 | 68.11 | 69.38 | 11 |
| 12 | 67.89 | 67.65 | 69.04 | 68.59 | 67.66 | 68.56 | 68.31 | 68.37 | 68.36 | 68.62 | 68.09 | 69.47 | 12 |
| 13 | 67.82 | 67.66 | 69.08 | 69.01 | 67.65 | 68.45 | 68.26 | 68.49 | 68.41 | 68.65 | 68.15 | 69.38 | 13 |
| 14 | 67.78 | 67.68 | 69.06 | 68.75 | 67.65 | 68.37 | 68.19 | 68.46 | 68.39 | 68.57 | 68.26 | 69.61 | 14 |
| 15 | 67.78 | 67.70 | 69.05 | 68.43 | 67.65 | 68.31 | 68.19 | 68.43 | 68.35 | 68.65 | 68.36 | 69.55 | 15 |
| 16 | 67.77 | 67.83 | 69.04 | 68.30 | 67.65 | 68.25 | 68.18 | 68.41 | 68.32 | 68.63 | 68.31 | 69.50 | 16 |
| 17 | 67.74 | 67.77 | 69.04 | 68.23 | 67.66 | 68.21 | 68.27 | 68.50 | 68.31 | 68.50 | 68.19 | 69.42 | 17 |
| 18 | 67.72 | 67.74 | 69.16 | 68.19 | 67.67 | 68.19 | 68.25 | 68.34 | 68.37 | 68.38 | 68.27 | 69.48 | 18 |
| 19 | 67.73 | 67.72 | 69.15 | 68.55 | 67.68 | 68.15 | 68.38 | 68.39 | 68.47 | 68.36 | 68.24 | 69.45 | 19 |
| 20 | 67.73 | 67.70 | 69.09 | 68.86 | 67.65 | 68.12 | 68.36 | 68.60 | 68.56 | 68.35 | 68.27 | 69.30 | 20 |
| 21 | 67.70 | 67.68 | 68.92 | 68.47 | 67.65 | 68.08 | 68.20 | 68.67 | 68.47 | 68.22 | 68.17 | 69.40 | 21 |
| 22 | 67.69 | 67.66 | 68.13 | 68.29 | 67.67 | 68.04 | 68.17 | 68.50 | 68.56 | 68.23 | 68.18 | 69.37 | 22 |
| 23 | 67.69 | 67.65 | 69.08 | 68.19 | 67.74 | 68.02 | 68.25 | 68.48 | 68.57 | 68.31 | 68.24 | 69.26 | 23 |
| 24 | 67.69 | 67.65 | 68.69 | 68.14 | 67.90 | 68.00 | 68.45 | 68.45 | 68.49 | 68.25 | 68.25 | 69.02 | 24 |
| 25 | 67.76 | 67.64 | 68.19 | 68.08 | 67.97 | 68.00 | 68.56 | 68.41 | 68.37 | 68.29 | 68.32 | 68.78 | 25 |
| 26 | 67.79 | 67.66 | 67.99 | 68.02 | 67.96 | 68.09 | 68.54 | 68.41 | 68.42 | 68.33 | 68.37 | 68.45 | 26 |
| 27 | 67.74 | 67.68 | 69.72 | 67.98 | 67.95 | 68.03 | 68.45 | 68.43 | 68.31 | 68.30 | 68.30 | 68.51 | 27 |
| 28 | 67.72 | 67.63 | 78.67 | 67.94 | 67.87 | 68.17 | 68.40 | 68.40 | 68.28 | 68.22 | 68.31 | 68.45 | 28 |
| 29 | 67.75 | 67.61 | 74.25 | 67.92 | | 68.20 | 68.37 | 68.60 | 68.40 | 68.26 | 68.35 | 68.46 | 29 |
| 30 | 67.71 | 67.74 | 70.13 | 67.88 | | 68.35 | 68.33 | 68.51 | 68.26 | 68.28 | 68.27 | 68.46 | 30 |
| 31 | 67.69 | | 69.48 | 67.87 | | 68.35 | | 68.43 | | 68.27 | 68.24 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12-28-73 | 1730 | 79.72 | | | | | | | | | |
| 3- 2-74 | 2245 | 77.32 | | | | | | | | | |
| 4- 2-74 | 1845 | 78.25 | | | | | | | | | |

| 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 downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 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. There are no upstream impairments.

TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B04120 | TUOLUMNE RIVER AT MODESTO |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 41.11 | 42.52 | 41.54 | 41.65 | 42.61 | 41.69 E | 41.85 | 41.29 | 41.17 | 41.35 | 41.17 | 41.70 | 1 |
| 2 | 41.31 | 42.19 | 41.51 | 41.78 | 42.39 | 41.91 E | 42.33 | 41.25 | 41.23 | 41.22 | 41.21 | 41.69 | 2 |
| 3 | 41.53 | 42.09 | 41.49 | 42.38 | 42.04 | 43.97 E | 42.58 | 41.20 | 41.20 | 41.29 | 41.42 | 41.70 | 3 |
| 4 | 42.39 | 41.97 | 41.50 | 42.40 | 41.57 | 42.55 E | 41.80 | 41.19 | 41.25 | 41.22 | 41.39 | 41.79 | 4 |
| 5 | 42.49 | 41.89 | 41.54 | 43.29 | 42.16 | 42.45 E | 41.67 | 41.21 | 41.44 | 41.37 | 41.23 | 41.81 | 5 |
| 6 | 41.70 | 41.92 | 41.57 | 42.98 | 42.40 | 41.62 | 41.57 | 40.40 | 41.43 | 41.22 | 41.24 | 41.81 | 6 |
| 7 | 41.76 | 41.72 | 41.63 | 42.55 | 42.37 | 42.42 | 41.50 | 41.22 | 41.43 | 41.25 | 41.46 | 41.93 | 7 |
| 8 | 41.83 | 41.57 | 41.64 | 43.98 | 42.29 | 42.65 | 41.40 | 41.22 | 41.37 | 41.22 | 41.47 | 41.90 | 8 |
| 9 | 41.64 | 41.53 | 41.59 | 43.65 | 42.23 | 42.81 | 41.36 | 41.38 | 41.24 | 41.38 | 41.34 | 41.84 | 9 |
| 10 | 41.64 | 41.52 | 41.58 | 43.43 | 41.97 | 42.13 | 41.36 | 41.32 | 41.23 | 41.49 | 41.22 | 41.93 | 10 |
| 11 | 41.63 | 41.49 | 41.60 | 43.34 | 41.57 | 41.98 | 41.34 | 41.21 | 41.30 | 41.33 | 41.23 | 42.10 | 11 |
| 12 | 41.59 | 41.50 | 41.67 | 42.94 | 42.11 | 42.15 | 41.35 | 41.18 | 41.42 | 41.26 | 41.18 | 42.06 | 12 |
| 13 | 41.61 | 41.52 | 41.76 | 42.23 | 42.33 | 42.14 | 41.35 | 41.23 | 41.35 | 41.28 | 41.11 | 41.99 | 13 |
| 14 | 41.63 | 41.51 | 41.71 | 41.75 | 42.40 | 42.23 | 41.32 | 41.18 | 41.30 | 41.23 | 41.23 | 41.96 | 14 |
| 15 | 41.52 | 41.51 | 41.66 | 42.37 | 42.36 | 42.03 | 41.31 | 41.14 | 41.24 | 41.25 | 41.64 | 41.91 | 15 |
| 16 | 41.63 | 41.52 | 41.61 | 42.54 | 42.29 | 41.90 | 41.29 | 41.15 | 41.23 | 41.25 | 41.69 | 41.88 | 16 |
| 17 | 41.49 | 41.53 | 41.54 | 42.50 | 41.97 | 41.86 | 41.31 | 41.15 | 40.46 | 41.24 | 41.71 | 42.15 | 17 |
| 18 | 42.36 | 41.51 | 41.56 | 42.46 | 41.58 | 41.70 | 41.33 | 41.12 | 41.19 | 41.18 | 41.73 | 42.70 | 18 |
| 19 | 42.35 | 41.49 | 41.57 | 42.41 | 41.47 | 41.72 | 41.35 | 41.19 | 41.26 | 41.24 | 41.70 | 43.12 | 19 |
| 20 | 42.25 | 41.50 | 41.56 | 42.09 | 41.65 | 41.74 | 41.33 | 41.21 | 41.25 | 41.45 | 41.62 | 43.22 | 20 |
| 21 | 41.91 | 41.51 | 41.77 | 41.67 | 41.71 | 41.65 | 41.31 | 41.19 | 41.27 | 41.38 | 41.61 | 43.23 | 21 |
| 22 | 41.61 | 41.50 | 41.79 | 42.37 | 41.85 | 41.59 | 41.28 | 41.16 | 41.19 | 41.28 | 41.67 | 43.06 | 22 |
| 23 | 41.43 | 41.48 | 41.68 | 42.50 | 41.77 | 41.56 | 41.30 | 41.15 | 41.24 | 41.28 | 41.70 | 42.61 | 23 |
| 24 | 41.87 | 41.49 | 41.57 | 42.52 | 41.70 | 41.57 | 41.35 | 41.17 | 41.23 | 41.50 | 41.73 | 42.86 | 24 |
| 25 | 42.14 | 41.48 | 41.49 | 42.51 | 41.61 E | 41.55 | 41.37 | 41.23 | 41.19 | 41.55 | 41.72 | 43.07 | 25 |
| 26 | 42.33 | 41.46 | 41.47 | 42.47 | 41.53 E | 41.71 | 41.37 | 41.23 | 41.18 | 41.64 | 41.71 | 42.90 | 26 |
| 27 | 42.46 | 41.49 | 41.73 | 42.09 | 41.70 E | 41.61 | 41.38 | 41.19 | 41.19 | 41.50 | 41.74 | 42.82 | 27 |
| 28 | 42.14 | 41.50 | 43.56 | 41.58 | 41.70 E | 41.90 | 41.34 | 41.16 | 41.16 | 41.34 | 41.73 | 42.76 | 28 |
| 29 | 41.89 | 41.50 | 42.79 | 42.35 | | 41.81 | 41.32 | 41.21 | 41.24 | 41.23 | 41.72 | 42.72 | 29 |
| 30 | 42.30 | 41.50 | 41.79 | 42.49 | | 41.79 | 41.29 | 41.18 | 41.37 | 41.16 | 41.71 | 42.58 | 30 |
| 31 | 42.52 | | 41.64 | 42.65 | | 41.79 | | 41.13 | | 41.13 | 41.69 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12-28-73 | 2000 | 44.30 | | | | | | | | | |
| 1- 8-74 | 1430 | 44.90 | | | | | | | | | |
| 4- 2-74 | 2400 | 43.46 | | | | | | | | | |

| 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<br>MAR 40-DATE | 1878-1884<br>1891-1894 | 1940 | | 0.00 | USCGS |

Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in 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. Flows regulated by upstream reservoirs and diversions.

## TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B04105 | TUOLUMNE RIVER AT TUOLUMNE CITY |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 23.16 | 27.78 | NR | 25.50 | 28.35 | 24.77 | 25.27 | 23.61 | 23.17 | 23.63 | 23.11 | 24.93 | 1 |
| 2 | 23.31 | 27.31 | NR | 25.67 | 28.13 | 25.33 | 25.76 | 23.59 | 23.28 | 23.29 | 23.10 | 24.89 | 2 |
| 3 | 24.21 | 26.69 | NR | 26.54 | 27.34 | 27.49 | 27.63 | 23.48 | 23.35 | 23.26 | 23.39 | 24.93 | 3 |
| 4 | 25.59 | 26.36 | NR | 28.29 | 26.24 | 27.41 | 25.84 | 23.47 | 23.34 | 23.20 | 23.77 | 25.04 | 4 |
| 5 | 27.97 | 25.99 | 24.52 | 29.00 | 26.31 | 26.76 | 25.33 | 23.47 | 23.67 | 23.45 | 23.49 | 25.24 | 5 |
| 6 | 25.82 | 25.90 | 24.70 | 28.82 | 27.42 | 26.65 | 25.42 | 23.49 | 23.87 | 23.36 | 23.30 | 25.23 | 6 |
| 7 | 25.48 | 25.62 | 24.75 | 28.37 | 27.46 | 27.16 | 25.37 | 23.49 | 23.78 | 23.28 | 23.48 | 25.48 | 7 |
| 8 | 25.90 | 24.93 | 24.83 | 29.12 | 27.25 | 27.74 | 25.02 | 23.45 | 23.83 | 23.29 | 23.83 | 25.71 | 8 |
| 9 | 25.33 | 24.70 | 24.76 | 29.88 | 27.03 | 27.96 | 24.54 | 23.67 | 23.45 | 23.33 | 23.67 | 25.55 | 9 |
| 10 | 24.90 | 24.60 | 24.65 | 29.60 | 26.43 | 27.08 | 24.31 | 23.82 | 23.35 | 23.79 | 23.28 | 25.48 | 10 |
| 11 | 25.01 | 24.54 | 24.65 | 29.58 | 25.49 | 26.29 | 24.14 | 23.54 | 23.38 | 23.70 | 23.29 | 25.99 | 11 |
| 12 | 24.80 | 24.50 | 24.78 | 29.31 | 25.62 | 26.29 | 24.08 | 23.44 | 23.88 | 23.40 | 23.25 | 26.29 | 12 |
| 13 | 24.86 | 24.46 | 25.12 | 28.24 | 26.81 | 26.46 | 24.05 | 23.49 | 23.74 | 23.35 | 23.09 | 26.08 | 13 |
| 14 | 24.83 | NR | 25.13 | 26.77 | 27.08 | 26.44 | 23.98 | 23.43 | 23.57 | 23.30 | 23.11 | 25.98 | 14 |
| 15 | 24.81 | NR | 24.92 | 26.88 | 27.08 | 26.21 | 23.84 | 23.35 | 23.44 | 23.29 | 24.06 | 25.77 | 15 |
| 16 | 24.49 | NR | 24.82 | 27.93 | 26.94 | 25.65 | 23.78 | 23.30 | 23.38 | 23.27 | 24.69 | 25.64 | 16 |
| 17 | 25.79 | NR | 24.63 | 28.00 | 26.25 | 25.48 | 23.76 | 23.24 | 23.26 | 23.20 | 24.80 | 25.88 | 17 |
| 18 | 27.08 | NR | 24.50 | 27.91 | 25.35 | 25.24 | 23.80 | 23.23 | 23.16 | 23.14 | 24.87 | 27.39 | 18 |
| 19 | 27.33 | NR | 24.58 | 27.82 | 24.63 | 25.00 | 23.85 | 23.28 | 23.26 | 23.07 | 24.94 | 28.34 | 19 |
| 20 | 27.19 | NR | 24.57 | 27.28 | 24.70 | 25.07 | 23.93 | 23.40 | 23.29 | 23.36 | 24.69 | 28.68 | 20 |
| 21 | 26.45 | NR | 24.83 | 26.28 | 24.97 | 24.94 | 23.80 | 23.41 | 23.34 | 23.72 | 24.57 | 28.75 | 21 |
| 22 | 25.48 | NR | 25.45 | 26.82 | 25.23 | 24.70 | 23.73 | 23.34 | 23.27 | 23.38 | 24.79 | 28.65 | 22 |
| 23 | 24.56 | NR | 25.10 | 28.08 | 25.27 | 24.59 | 23.72 | 23.14 | 23.30 | 23.16 | 24.88 | 28.20 | 23 |
| 24 | 24.87 | NR | 24.84 | 28.22 | 25.01 | 24.61 | 23.83 | 23.23 | 23.32 | 23.63 | 24.95 | 27.85 | 24 |
| 25 | 26.41 | NR | 24.44 | 28.34 | 24.65 | 24.58 | 23.91 | 23.33 | 23.18 | 23.85 | 25.05 | 27.49 | 25 |
| 26 | 26.94 | NR | 24.34 | 28.44 | 24.50 | 24.78 | 23.79 | 23.42 | 23.18 | 24.15 | 24.86 | 27.50 | 26 |
| 27 | 27.56 | NR | 24.74 | 27.90 | 24.90 | 24.83 | 23.79 | 23.40 | 23.22 | 24.15 | 24.89 | 27.68 | 27 |
| 28 | 27.09 | NR | 27.28 | 26.71 | 24.87 | 25.14 | 23.80 | 23.33 | 23.17 | 23.73 | 25.03 | 27.78 | 28 |
| 29 | 26.26 | NR | 28.84 | 26.97 | | 25.35 | 23.77 | 23.37 | 23.11 | 23.47 | 25.00 | 28.02 | 29 |
| 30 | 26.36 | NR | 26.57 | 28.11 | | 25.15 | 23.67 | 23.37 | 23.44 | 23.32 | 24.97 | 27.96 | 30 |
| 31 | 27.64 | | 25.74 | 28.29 | | 25.19 | | 23.20 | | 23.15 | 24.93 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1- 8-74 | 2200 | 30.16 | | | | | | | | | |

| 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 | 1930-DATE | | | 1959 | 0.00 | USED |
| | | | | 43.15a | 12- 9-50 | | | 1960 | | 0.00 | USCGS |
| | | | 37900b | 42.86 | 1-27-69 | | | 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. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.
b Maximum discharge since Department of Water Resources began operation of station in April 1966.

## TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT
(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07040 | SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.98 | 16.95 | 16.23 | 19.27 | 21.44 | 16.24 | 19.26 | 17.02 | 17.83 | 14.86 | 14.32 | 15.67 | 1 |
| 2 | 14.83 | 16.84 | 16.27 | 19.16 | 21.32 | 16.40 | 19.67 | 17.32 | 18.07 | 14.66 | 14.32 | 15.77 | 2 |
| 3 | 15.17 | 16.86 | 16.25 | 19.22 | 20.89 | 17.73 | 20.62 | 17.26 | 18.33 | 14.55 | 14.26 | 15.72 | 3 |
| 4 | 15.60 | 16.13 | 16.23 | 19.95 | 20.35 | 18.27 | 20.68 | 17.15 | 18.29 | 14.49 | 14.46 | 15.68 | 4 |
| 5 | 16.91 | 15.86 | 16.27 | 20.34 | 19.87 | 18.10 | 20.56 | 17.13 | 18.06 | 14.63 | 14.47 | 15.66 | 5 |
| 6 | 16.42 | 15.72 | 16.37 | 20.36 | 19.95 | 18.33 | 20.93 | 17.20 | 17.94 | 14.56 | 14.30 | 15.67 | 6 |
| 7 | 15.98 | 15.66 | 16.35 | 20.35 | 19.58 | 19.18 | 21.08 | 16.89 | 17.93 | 14.53 | 14.28 | 15.74 | 7 |
| 8 | 16.59 | 15.30 | 16.38 | 20.52 | 19.15 | 19.78 | 20.82 | 16.75 | 17.92 | 14.74 | 14.48 | 15.90 | 8 |
| 9 | 16.59 | 15.22 | 16.32 | 21.35 | 18.84 | 19.87 | 20.23 | 17.08 | 18.20 | 14.93 | 14.52 | 15.88 | 9 |
| 10 | 16.39 | 15.38 | 16.22 | 21.51 | 18.50 | 19.67 | 19.80 | 17.52 | 18.76 | 15.35 | 14.42 | 15.75 | 10 |
| 11 | 16.54 | 15.48 | 16.15 | 21.62 | 17.96 | 19.20 | 19.41 | 17.88 | 18.84 | 15.37 | 14.45 | 16.01 | 11 |
| 12 | 16.46 | 15.49 | 16.17 | 21.59 | 17.51 | 18.84 | 19.22 | 18.05 | 18.23 | 15.21 | 14.51 | 16.26 | 12 |
| 13 | 16.35 | 15.49 | 16.24 | 21.12 E | 18.03 | 18.73 | 19.17 | 17.94 | 17.46 | 15.20 | 14.36 | 16.10 | 13 |
| 14 | 16.19 | 15.54 | 16.20 | 20.30 E | 18.24 | 18.51 | 19.17 | 17.74 | 17.12 | 15.27 | 14.31 | 16.00 | 14 |
| 15 | 16.10 | 15.52 | 16.08 | 20.37 E | 18.26 | 18.11 | 18.95 | 17.99 | 16.67 | 15.12 | 14.59 | 15.92 | 15 |
| 16 | 15.81 | 15.47 | 16.37 | 21.00 E | 18.11 | 17.51 | 18.59 | 18.29 | 17.27 | 14.84 | 14.94 | 15.91 | 16 |
| 17 | 15.93 | 15.49 | 16.55 | 21.29 E | 17.72 | 17.26 | 18.25 | 18.28 | 17.81 | 14.70 | 15.11 | 15.98 | 17 |
| 18 | 16.50 | 15.55 | 16.52 | 21.25 E | 17.20 | 17.10 | 18.09 | 18.18 | 17.47 | 14.53 | 15.25 | 16.57 | 18 |
| 19 | 16.73 | 15.59 | 16.55 | 21.12 E | 16.65 | 16.85 | 18.11 | 18.12 | 17.09 | 14.38 | 15.34 | 17.24 | 19 |
| 20 | 16.83 | 15.81 | 16.55 | 20.93 | 16.46 | 16.85 | 18.17 | 18.02 | 16.59 | 14.41 | 15.27 | 17.58 | 20 |
| 21 | 16.71 | 16.27 | 16.59 | 20.78 | 16.55 | 16.74 | 17.94 | 17.64 | 16.02 | 14.63 | 15.20 | 17.68 | 21 |
| 22 | 16.22 | 16.67 | 16.91 | 20.76 | 16.67 | 16.62 | 17.48 | 16.72 | 15.67 | 14.59 | 15.15 | 17.69 | 22 |
| 23 | 15.79 | 16.64 | 16.99 | 21.49 | 16.73 | 16.57 | 17.15 | 16.03 | 15.46 | 14.34 | 15.26 | 17.65 | 23 |
| 24 | 15.66 | 16.34 | 16.99 | 21.63 | 16.62 | 16.51 | 16.55 | 15.81 | 15.52 | 14.27 | 15.30 | 17.49 | 24 |
| 25 | 16.31 | 16.13 | 16.90 | 21.90 | 16.47 | 16.60 | 16.44 | 15.67 | 15.31 | 14.43 | 15.47 | 17.61 | 25 |
| 26 | 16.63 | 16.12 | 16.81 | 22.16 | 16.27 | 16.70 | 16.25 | 15.60 | 15.27 | 14.55 | 15.52 | 17.68 | 26 |
| 27 | 16.96 | 16.18 | 16.95 | 22.19 | 16.40 | 17.59 | 16.18 | 15.53 | 15.15 | 14.68 | 15.47 | 17.62 | 27 |
| 28 | 16.91 | 16.28 | 18.04 | 21.55 E | 16.36 | 18.20 | 16.76 | 15.39 | 15.01 | 14.50 | 15.42 | 17.62 | 28 |
| 29 | 16.46 | 16.34 | 19.84 | 21.35 E | | 18.68 | 17.12 | 16.15 | 14.78 | 14.49 | 15.53 | 17.58 | 29 |
| 30 | 16.23 | 16.24 | 19.65 | 21.87 | | 18.70 | 17.04 | 16.80 | 14.82 | 14.42 | 15.49 | 17.68 | 30 |
| 31 | 16.88 | | 19.35 | 21.74 E | | 18.98 | | 17.46 | | 14.30 | 15.56 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-11-74 | 1200 | 21.71 | | | | | | | | | |
| 1-30-74 | 1600 | 21.98 | | | | | | | | | |
| 4- 7-74 | 1600 | 21.10 | | | | | | | | | |

| 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 | 45,550 | 38.31a | 1-27-69 | JAN 50-MAR 52 | SEP 43-DEC 49 | 1943 | 1959 | 0.00 | USED |
| | | | | | | OCT 65-DATE | APR 52-SEP 65 | 1959 | | 0.00 | USCGS |
| | | | | | | | | 1959 | | 3.41 | USED |

Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.

a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1975 | B03175 | STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.73 | 2.13 | 4.64 | 6.51 | 7.44 | 5.28 | 10.27 | 7.16 | 9.44 | 1.53 | 1.51 | 1.51 | 1 |
| 2 | 1.74 | 2.13 | 4.52 | 6.38 | 7.04 | 6.35 | 10.86 | 6.85 | 9.40 | 1.51 | 1.46 | 1.56 | 2 |
| 3 | 1.73 | 2.13 | 4.50 | 6.35 | 7.06 | 5.88 | 9.96 | 6.85 | 8.85 | 1.51 | 1.44 | 1.53 | 3 |
| 4 | 1.73 | 2.15 | 4.52 | 6.36 | 6.66 | 5.52 | 9.94 | 6.82 | 8.39 | 1.52 | 1.45 | 1.52 | 4 |
| 5 | 1.76 | 2.16 | 4.51 | 6.37 | 6.06 | 5.27 | 9.94 | 6.81 | 8.51 | 1.54 | 1.50 | 1.48 | 5 |
| 6 | 1.85 | 2.19 | 4.53 | 6.82 | 6.06 | 5.00 | 9.74 | 5.14 | 8.40 | 1.60 | 1.62 | 1.49 | 6 |
| 7 | 1.91 | 2.21 | 4.49 | 6.55 | 6.05 | 5.00 | 9.34 | 6.67 | 8.61 | 1.64 | 1.64 | 1.52 | 7 |
| 8 | 2.32 | 2.17 | 4.45 | 6.43 | 6.06 | 5.33 | 8.92 | 7.25 | 9.16 | 1.67 | 1.63 | 1.51 | 8 |
| 9 | 1.72 | 2.17 | 4.45 | 6.37 | 6.08 | 5.20 | 8.88 | 8.54 | 9.05 | 1.79 | 1.52 | 1.55 | 9 |
| 10 | 1.53 | 2.16 | 4.47 | 6.33 | 6.09 | 5.17 | 8.85 | 9.38 | 6.83 | 1.85 | 1.44 | 1.51 | 10 |
| 11 | 1.57 | 2.17 | 4.52 | 6.35 | 6.10 | 5.17 | 9.08 | 8.58 | 4.69 | 1.77 | 1.43 | 1.53 | 11 |
| 12 | 1.38 | 2.20 | 4.53 | 6.39 | 6.12 | 5.16 | 9.50 | 8.05 | 4.43 | 1.66 | 1.45 | 1.54 | 12 |
| 13 | 1.32 | 2.27 | 4.58 | 6.36 | 6.12 | 5.16 | 9.49 | 8.33 | 5.26 | 1.62 | 1.41 | 1.57 | 12 |
| 14 | 1.31 | 2.39 | 5.15 | 6.27 | 6.13 | 5.16 | 9.46 | 9.37 | 4.18 | 1.60 | 1.40 | 1.57 | 14 |
| 15 | 1.31 | 2.44 | 6.40 | 6.22 | 5.72 | 5.23 | 9.21 | 9.40 | 5.85 | 1.61 | 1.39 | 1.55 | 15 |
| 16 | 1.31 | 2.42 | 6.39 | 6.13 | 5.13 | 5.34 | 8.69 | 9.28 | 6.64 | 1.63 | 1.41 | 1.60 | 16 |
| 17 | 1.34 | 2.42 | 6.40 | 7.40 | 5.13 | 5.35 | 8.55 | 9.17 | 6.17 | 1.60 | 1.44 | 1.69 | 17 |
| 18 | 2.64 | 2.45 | 6.40 | 9.94 | 5.13 | 5.64 | 8.27 | 8.68 | 5.53 | 1.63 | 1.46 | 1.74 | 18 |
| 19 | 2.89 | 2.41 | 6.38 | 9.86 | 5.14 | 6.18 | 8.94 | 7.89 | 3.50 | 1.66 | 1.48 | 1.65 | 19 |
| 20 | 2.72 | 2.35 | 6.36 | 9.41 | 5.29 | 6.18 | 7.19 | 6.77 | 2.89 | 1.60 | 1.44 | 1.62 | 20 |
| 21 | 2.76 | 1.97 | 6.40 | 9.39 | 5.65 | 6.18 | 7.10 | 4.75 | 2.89 | 1.55 | 1.43 | 1.65 | 21 |
| 22 | 2.55 | 2.30 | 6.52 | 9.03 | 5.66 | 6.17 | 6.10 | 3.15 | 2.89 | 1.51 | 1.42 | 1.73 | 22 |
| 23 | 1.65 | 2.39 | 6.36 | 9.04 | 5.66 | 6.14 | 3.93 | 2.63 | 2.95 | 1.53 | 1.41 | 1.68 | 23 |
| 24 | 1.36 | 3.56 | 6.33 | 10.07 | 5.65 | 6.00 | 3.63 | 2.47 | 3.46 | 1.52 | 1.44 | 1.64 | 24 |
| 25 | 1.28 | 3.78 | 6.32 | 10.04 | 5.64 | 6.79 | 3.67 | 1.87 | 3.78 | 1.53 | 1.44 | 1.63 | 25 |
| 26 | 1.26 | 4.00 | 6.33 | 10.07 | 5.50 | 9.03 | 4.16 | 1.71 | 2.65 | 1.57 | 1.43 | 1.61 | 26 |
| 27 | 1.25 | 4.51 | 7.11 | 9.99 | 5.26 | 8.78 | 6.19 | 2.79 | 2.06 | 1.53 | 1.46 | 1.63 | 27 |
| 28 | 1.23 | 4.51 | 6.94 | 10.01 | 5.25 | 8.57 | 6.20 | 7.22 | 1.75 | 1.55 | 1.53 | 1.70 | 28 |
| 29 | 1.24 | 4.51 | 6.48 | 9.40 | | 8.73 | 6.16 | 8.51 | 1.63 | 1.54 | 1.52 | 1.70 | 29 |
| 30 | 1.53 | 4.49 | 6.41 | 7.93 | | 9.42 | 6.56 | 9.73 | 1.59 | 1.57 | 1.49 | 1.68 | 30 |
| 31 | 2.17 | | 6.37 | 7.67 | | 9.67 | | 9.43 | | 1.52 | 1.52 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 1-74 | 2400 | 11.58 | | | | | | | | | |
| 1-24-74 | 1600 | 10.31 | | | | | | | | | |
| 5-30-74 | 0815 | 10.04 | | | | | | | | | |

| 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 | REP. DATUM |
| | | | CFS | GAGE HT. | DATE | | | FROM | TO | | |
| 37 47 18 | 120 45 41 | SW 4 2S 11E | 62000 | 31.8 | 12-23-55 | JUN 28-DEC 39<br>APR 40-DATE | | | | 117.21 | USCGS |

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.

TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B03125 | STANISLAUS RIVER AT RIPON |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 36.67 | 36.20 | 40.34 | 44.08 | 47.33 | 42.62 | 50.97 | 45.34 | 50.32 | 37.89 | 36.99 | 37.15 | 1 |
| 2 | 36.46 | 36.37 | 40.65 | 44.23 | 46.76 | 43.24 | 51.64 | 46.18 | 50.46 | 37.47 | 36.88 | 37.37 | 2 |
| 3 | 36.66 | 36.38 | 40.57 | 44.03 | 46.15 | 44.44 | 52.57 | 45.86 | 50.41 | 37.40 | 37.10 | 37.33 | 3 |
| 4 | 36.78 | 36.37 | 40.58 | 44.02 | 46.07 | 43.98 | 52.05 | 45.86 | 49.76 | 37.32 | 37.05 | 37.05 | 4 |
| 5 | 36.80 | 36.38 | 40.58 | 44.05 | 45.24 | 43.19 | 51.79 | 45.85 | 48.74 | 37.36 | 37.05 | 37.40 | 5 |
| 6 | 36.92 | 36.43 | 40.43 | 44.22 | 44.43 | 42.90 | 51.69 | 45.90 | 48.88 | 37.74 | 37.11 | 37.50 | 6 |
| 7 | 36.87 | 36.41 | 40.45 | 44.92 | 44.25 | 42.47 | 51.44 | 43.67 | 48.78 | 37.78 | 36.82 | 37.31 | 7 |
| 8 | 37.68 | 36.37 | 40.39 | 44.58 | 44.15 | 42.46 | 50.82 | 45.22 | 49.09 | 37.48 | 36.63 | 37.28 | 8 |
| 9 | 37.41 | 36.34 | 40.33 | 44.25 | 44.12 | 42.75 | 50.34 | 46.41 | 49.82 | 37.52 | 36.57 | 37.59 | 9 |
| 10 | 37.07 | 36.34 | 40.31 | 44.09 | 44.10 | 42.85 | 50.23 | 48.53 | 49.80 | 38.46 | 36.87 | 37.96 | 10 |
| 11 | 36.61 | 36.31 | 40.36 | 44.02 | 44.09 | 43.04 | 49.89 | 49.82 | 46.40 | 38.44 | 37.05 | 37.01 | 11 |
| 12 | 36.45 | 36.33 | 40.43 | 44.12 | 44.08 | 42.78 | 50.27 | 49.18 | 42.76 | 37.97 | 36.94 | 37.55 | 12 |
| 13 | 36.44 | 36.40 | 40.45 | 44.26 | 44.09 | 42.57 | 50.84 | 48.32 | 42.60 | 37.96 | 36.79 | 37.41 | 13 |
| 14 | 36.41 | 36.51 | 40.53 | 44.10 | 44.06 | 42.49 | 50.91 | 48.65 | 42.87 | 37.64 | 36.91 | 37.40 | 14 |
| 15 | 36.27 | 36.69 | 41.47 | 43.94 | 44.04 | 42.32 | 50.86 | 50.07 | 42.17 | 37.70 | 36.82 | 37.26 | 15 |
| 16 | 36.24 | 36.79 | 43.14 | 43.87 | 43.24 | 42.66 | 50.51 | 50.56 | 44.21 | 37.25 | 36.99 | 37.28 | 16 |
| 17 | 35.47 | 36.86 | 43.43 | 43.79 | 42.51 | 42.83 | 49.94 | 50.55 | 44.48 | 37.41 | 36.94 | 37.37 | 17 |
| 18 | 35.99 | 36.90 | 43.50 | 46.13 | 42.38 | 42.95 | 49.50 | 50.47 | 44.72 | 37.29 | 36.93 | 37.53 | 18 |
| 19 | 36.47 | 36.90 | 43.60 | 49.51 | 42.35 | 43.32 | 49.11 | 49.82 | 43.28 | 37.07 | 36.88 | 37.80 | 19 |
| 20 | 37.38 | 36.88 | 43.62 | 50.25 | 42.28 | 44.02 | 49.39 | 48.65 | 40.70 | 37.14 | 36.88 | 37.92 | 20 |
| 21 | 37.36 | 36.84 | 43.68 | 49.90 | 42.62 | 43.95 | 47.52 | 46.39 | 39.65 | 37.22 | 36.80 | 37.67 | 21 |
| 22 | 37.42 | 36.61 | 43.89 | 49.78 | 43.02 | 43.97 | 46.92 | 43.12 | 39.46 | 37.33 | 36.64 | 37.73 | 22 |
| 23 | 37.40 | 36.55 | 44.01 | 49.40 | 43.25 | 43.90 | 44.93 | 40.77 | 39.61 | 37.17 | 36.49 | 37.61 | 23 |
| 24 | 36.73 | 36.76 | 43.79 | 49.37 | 43.35 | 43.86 | 42.59 | 40.12 | 39.87 | 36.98 | 36.55 | 37.47 | 24 |
| 25 | 36.34 | 37.99 | 43.73 | 50.59 | 43.34 | 43.61 | 42.10 | 39.77 | 40.26 | 36.87 | 36.79 | 37.42 | 25 |
| 26 | 36.15 | 38.72 | 43.73 | 50.93 | 43.28 | 45.36 | 41.99 | 39.16 | 40.58 | 36.79 | 36.89 | 37.58 | 26 |
| 27 | 36.03 | 39.20 | 44.24 | 51.08 | 43.03 | 48.62 | 43.09 | 38.99 | 39.38 | 36.86 | 36.62 | 37.78 | 27 |
| 28 | 35.97 | 39.92 | 46.09 | 51.05 | 42.71 | 49.24 | 45.19 | 40.87 | 38.76 | 37.03 | 36.52 | 38.24 | 28 |
| 29 | 35.93 | 40.08 | 45.59 | 51.10 | | 49.19 | 45.11 | 45.62 | 38.17 | 36.98 | 36.91 | 38.48 | 29 |
| 30 | 35.90 | 40.16 | 44.50 | 50.39 | | 49.33 | 44.73 | 48.06 | 37.95 | 36.86 | 36.89 | 38.33 | 30 |
| 31 | 35.90 | | 44.16 | 48.11 | | 50.31 | | 50.14 | | 37.04 | 37.04 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-29-74 | 2200 | 51.14 | | | | | | | | | |
| 4- 3-74 | 0730 | 52.73 | | | | | | | | | |
| 5-16-74 | 0630 | 50.59 | | | | | | | | | |

| 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 downstream from 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-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B03115 | STANISLAUS RIVER AT KOETITZ RANCH |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 28.18 | 27.21 | 31.26 | 34.78 | 37.78 | 33.48 | 40.90 | 35.86 | 40.30 | 29.50 | 28.46 | 28.49 | 1 |
| 2 | 28.14 | 27.44 | 31.57 | 34.91 | 37.36 | 33.69 | 41.38 | 36.83 | 40.50 | 29.22 | 28.33 | 28.78 | 2 |
| 3 | 28.27 | 27.48 | 31.58 | 34.76 | 36.70 | 35.15 | 42.25 | 36.50 | 40.42 | 29.11 | 28.34 | 28.84 | 3 |
| 4 | 28.33 | 27.48 | 31.56 | 34.73 | 36.58 | 34.70 | 42.12 | 36.52 | 40.01 | 29.09 | 28.53 | 28.39 | 4 |
| 5 | 28.43 | 27.49 | 31.58 | 34.73 | 36.05 | 34.07 | 41.81 | 36.50 | 39.07 | 29.28 | 28.50 | 28.69 | 5 |
| 6 | 28.46 | 27.54 | 31.45 | 34.82 | 35.17 | 33.86 | 41.69 | 36.54 | 39.10 | 29.41 | 28.46 | 28.81 | 6 |
| 7 | 28.57 | 27.51 | 31.45 | 35.47 | 35.00 | 33.47 | 41.52 | 34.94 | 39.02 | 29.38 | 28.10 | 28.51 | 7 |
| 8 | 29.07 | 27.47 | 31.40 | 35.26 | 34.91 | 33.40 | 41.05 | 35.75 | 39.15 | 29.29 | 28.01 | 28.63 | 8 |
| 9 | 28.82 | 27.44 | 31.33 | 34.98 | 34.87 | 33.68 | 40.59 | 36.70 | 39.80 | 29.34 | 28.05 | 28.90 | 9 |
| 10 | 28.54 | 27.44 | 31.31 | 34.79 | 34.84 | 33.85 | 40.46 | 38.55 | 39.95 | 29.75 | 28.32 | 29.19 | 10 |
| 11 | 28.19 | 27.40 | 31.35 | 34.72 | 34.83 | 33.99 | 40.18 | 39.78 | 37.47 | 30.06 | 28.56 | 29.04 | 11 |
| 12 | 27.96 | 27.40 | 31.42 | 34.77 | 34.81 | 33.80 | 40.36 | 39.51 | 34.27 | 29.56 | 28.36 | 28.85 | 12 |
| 13 | 27.88 | 27.45 | 31.44 | 34.92 | 34.81 | 33.58 | 40.89 | 38.77 | 33.53 | 29.47 | 28.08 | 28.84 | 13 |
| 14 | 27.75 | 27.54 | 31.50 | 34.79 | 34.79 | 33.54 | 41.04 | 38.88 | 34.23 | 29.28 | 28.25 | 28.68 | 14 |
| 15 | 27.67 | 27.70 | 32.04 | 34.65 | 34.77 | 33.34 | 40.95 | 39.96 | 33.25 | 29.44 | 28.17 | 28.78 | 15 |
| 16 | 27.51 | 27.81 | 33.67 | 34.57 | 34.27 | 33.51 | 40.64 | 40.57 | 34.98 | 29.06 | 28.15 | 28.70 | 16 |
| 17 | 27.33 | 27.89 | 34.10 | 34.50 | 33.49 | 33.67 | 40.18 | 40.59 | 35.88 | 29.06 | 28.22 | 28.74 | 17 |
| 18 | 27.22 | 27.95 | 34.25 | 35.86 | 33.33 | 33.77 | 39.73 | 40.57 | 35.64 | 29.00 | 28.22 | 28.72 | 18 |
| 19 | 27.39 | 27.96 | 34.33 | 39.12 | 33.28 | 34.01 | 39.45 | 40.13 | 34.66 | 28.80 | 28.31 | 28.95 | 19 |
| 20 | 28.26 | 27.95 | 34.35 | 40.10 | 33.23 | 34.70 | 39.64 | 39.16 | 32.38 | 28.88 | 28.21 | 29.22 | 20 |
| 21 | 28.39 | 27.93 | 34.40 | 39.95 | 33.39 | 34.71 | 38.29 | 37.42 | 31.37 | 28.91 | 28.25 | 28.94 | 21 |
| 22 | 28.44 | 27.77 | 34.54 | 39.78 | 33.81 | 34.84 | 37.55 | 34.53 | 31.09 | 28.97 | 28.11 | 28.67 | 22 |
| 23 | 28.48 | 27.60 | 34.72 | 39.62 | 33.96 | 34.82 | 36.05 | 32.39 | 31.17 | 28.77 | 27.85 | 28.90 | 23 |
| 24 | 28.00 | 27.78 | 34.53 | 39.32 | 34.12 | 34.72 | 33.87 | 31.71 | 31.19 | 28.53 | 28.09 | 28.80 | 24 |
| 25 | 27.57 | 28.55 | 34.46 | 40.34 | 34.12 | 34.61 | 33.27 | 31.39 | 31.53 | 28.42 | 28.27 | 28.68 | 25 |
| 26 | 27.35 | 29.47 | 34.47 | 40.77 | 34.05 | 35.59 | 33.13 | 30.86 | 32.01 | 28.16 | 28.25 | 28.93 | 26 |
| 27 | 27.22 | 29.90 | 34.77 | 40.96 | 33.90 | 38.66 | 33.80 | 30.65 | 31.03 | 28.26 | 27.83 | 29.00 | 27 |
| 28 | 27.13 | 30.69 | 36.32 | 40.96 | 33.56 | 39.41 | 35.79 | 31.62 | 30.39 | 28.39 | 27.84 | 29.35 | 28 |
| 29 | 27.09 | 30.97 | 36.31 | 40.99 | | 39.46 | 35.84 | 35.90 | 29.86 | 28.39 | 28.12 | 29.69 | 29 |
| 30 | 27.04 | 31.10 | 35.27 | 40.69 | | 39.45 | 35.44 | 37.93 | 29.55 | 28.36 | 28.28 | 29.72 | 30 |
| 31 | 27.02 | | 34.90 | 38.77 | | 40.25 | | 39.96 | | 28.34 | 28.40 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-30-74 | 0100 | 41.05 | | | | | | | | | |
| 4- 3-74 | 1645 | 42.41 | | | | | | | | | |

| 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 | | 50.5 | 12-24-55 | OCT 62-DATE | MAR 50-SEP 62 | 1950 | 1962 | -0.63 | USC&GS |
| | | | | | | | | 1963 | 1969 | 0.37 | USC&GS |
| | | | | | | | | 1970 | | 0.00 | USC&GS |

Station located on left bank 9.35 miles upstream from 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. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,094 square miles.

TABLE B-9 (Cont.)

## DAILY MEAN GAGE HEIGHT

(IN FEET)

| WATER YEAR | STATION NO. | STATION NAME |
|---|---|---|
| 1974 | B07020 | SAN JOAQUIN RIVER NEAR VERNALIS |

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | DAY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.06 | 12.70 | 12.62 | 15.83 | 18.23 | 13.27 | 16.43 | 14.17 | 14.92 | 11.19 | 10.35 | 11.53 | 1 |
| 2 | 10.92 | 12.64 | 12.66 | 15.76 | 18.05 | 13.32 | 16.80 | 13.83 | 15.13 | 10.98 | 10.35 | 11.71 | 2 |
| 3 | 11.12 | 12.26 | 12.70 | 15.77 | 17.65 | 14.50 | 17.60 | 13.81 | 15.37 | 10.85 | 10.28 | 11.64 | 3 |
| 4 | 11.49 | 12.04 | 12.70 | 16.33 | 17.18 | 15.07 | 17.83 | 13.90 | 15.34 | 10.80 | 10.41 | 11.58 | 4 |
| 5 | 12.63 | 11.83 | 12.70 | 16.73 | 16.68 | 14.90 | 17.72 | 14.02 | 15.10 | 10.88 | 10.48 | 11.58 | 5 |
| 6 | 12.62 | 11.67 | 12.74 | 16.81 | 16.61 | 14.92 | 18.04 | 14.13 | 14.93 | 10.87 | 10.35 | 11.56 | 6 |
| 7 | 12.06 | 11.61 | 12.74 | 16.85 | 16.32 | 15.52 | 18.18 | 13.88 | 14.93 | 10.84 | 10.27 | 11.57 | 7 |
| 8 | 12.62 | 11.28 | 12.75 | 16.97 | 15.91 | 16.02 | 18.00 | 13.51 | 14.91 | 10.98 | 10.40 | 11.76 | 8 |
| 9 | 12.75 | 11.13 | 12.74 | 17.61 | 15.55 | 16.22 | 17.42 | 14.02 | 15.23 | 11.07 | 10.44 | 11.82 | 9 |
| 10 | 12.53 | 11.23 | 12.64 | 17.84 | 15.38 | 16.17 | 17.02 | 14.50 | 15.67 | 11.47 | 10.46 | 11.63 | 10 |
| 11 | 12.54 | 11.34 | 12.59 | 17.92 | 14.93 | 15.80 | 16.59 | 14.96 | 15.73 | 11.65 | 10.44 | 11.83 | 11 |
| 12 | 12.46 | 11.36 | 12.58 | 17.99 | NR | 15.49 | 16.36 | 15.17 | 14.88 | 11.51 | 10.52 | 12.10 | 12 |
| 13 | 12.31 | 11.36 | 12.64 | 17.73 | NR | 15.36 | 16.35 | 15.07 | 13.90 | 11.41 | 10.35 | 12.02 | 13 |
| 14 | 12.15 | 11.39 | 12.65 | 17.07 | NR | 15.18 | 16.39 | 14.90 | 13.66 | 11.51 | 10.28 | 11.93 | 14 |
| 15 | 12.03 | 11.41 | 12.58 | 16.41 | 15.07 | 14.86 | 16.23 | 15.04 | 13.14 | 11.37 | 10.43 | 11.88 | 15 |
| 16 | 11.74 | 11.42 | 13.00 | 16.67 | 14.95 | 14.35 | 15.88 | 15.39 | 13.26 | 11.04 | 10.77 | 11.85 | 16 |
| 17 | 11.68 | 11.43 | 13.32 | 16.70 | 14.52 | 14.15 | 15.53 | 15.44 | 14.38 | 10.86 | 10.92 | 11.88 | 17 |
| 18 | 12.15 | 11.48 | 13.33 | 16.76 | 14.09 | 14.03 | 15.30 | 15.35 | 14.34 | 10.72 | 11.08 | 12.28 | 18 |
| 19 | 12.42 | 11.50 | 13.37 | 17.51 | 13.57 | 13.92 | 15.29 | 15.24 | 13.81 | 10.53 | 11.17 | 12.94 | 19 |
| 20 | 12.63 | 11.67 | 13.40 | 17.99 | 13.38 | 14.00 | 15.29 | 15.08 | 13.20 | 10.52 | 11.11 | 13.37 | 20 |
| 21 | 12.69 | 12.03 | 13.43 | 17.90 | 13.42 | 13.93 | 15.11 | 14.62 | 12.50 | 10.71 | 11.06 | 13.52 | 21 |
| 22 | 12.28 | 12.41 | 13.69 | 17.79 | 13.57 | 13.82 | 14.58 | 13.67 | 12.12 | 10.76 | 10.96 | 13.51 | 22 |
| 23 | 11.90 | 12.48 | 13.83 | 18.40 | 13.67 | 13.77 | 14.19 | 12.77 | 11.93 | 10.53 | 11.05 | 13.54 | 23 |
| 24 | 11.67 | 12.28 | 13.83 | 18.53 | 13.63 | 13.69 | 13.46 | 12.37 | 11.98 | 10.41 | 11.07 | 13.35 | 24 |
| 25 | 12.06 | 12.10 | 13.75 | 18.83 | 13.54 | 13.77 | 13.17 | 12.20 | 11.88 | 10.52 | 11.27 | 13.40 | 25 |
| 26 | 12.37 | 12.17 | 13.68 | 19.04 | 13.58 | 13.84 | 12.97 | 12.07 | 11.92 | 10.56 | 11.39 | 13.52 | 26 |
| 27 | 12.64 | 12.30 | 13.79 | 19.08 | 13.43 | 14.87 | 12.87 | 11.97 | 11.73 | 10.64 | 11.31 | 13.53 | 27 |
| 28 | 12.69 | 12.49 | 14.73 | 18.79 | 13.41 | 15.49 | 13.54 | 11.79 | 11.52 | 10.58 | 11.18 | 13.57 | 28 |
| 29 | 12.30 | 12.62 | 16.38 | 18.41 | | 15.94 | 13.98 | 12.90 | 11.27 | 10.56 | 11.28 | 13.56 | 29 |
| 30 | 12.01 | 12.63 | 16.29 | 18.80 | | 15.91 | 14.12 | 13.74 | 11.18 | 10.53 | 11.33 | 13.67 | 30 |
| 31 | 12.53 | | 15.93 | 18.65 | | 16.15 | | 14.53 | | 10.39 | 11.40 | | 31 |

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

| DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE | DATE | TIME | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-27-74 | 0700 | 19.16 | | | | | | | | | |

| 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 55 | | 79000 | 27.75 | 12-9-50 | JUL 22-DEC 23 | | 1931 | 1959 | 8.4 | USED |
| | | | | 32.81a | 12-9-50 | JAN 24-FEB 25 | | | | | |
| | | | 52600 | 34.55 | 1-27-69 | JUN 25-OCT 28 | | 1931 | 1959 | 5.06 | USCGS |
| | | | | | | MAY 29-DATE | | 1959 | | 0.00 | USCGS |

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, 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.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-10

CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published.

For other corrections and revisions to previously published reports dating back to 1924, refer to Page 160, Table B-11, Bulletin No. 130-66, Volume IV.

## TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

| LOCATION OF ERROR | | | ITEM | CHANGE | |
|---|---|---|---|---|---|
| PAGE | MILE & BANK | NAME | | FROM | TO |
| | | Bulletin No. 23-58 Surface Water Flow for 1958 | | | |
| 132 | | Table 149 San Joaquin River at Whitehouse | July acre-feet | 247300 | 24730 |
| | | | Water Year Total | 1292000 | 1069000 |
| | | Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley | | | |
| B-19 | | Table B-9 Miami Creek near Oakhurst | Maximum Discharge 1963 Water Year | 1140E | 804 |
| | | | Maximum Discharge of record | 1140E | 804 |
| B-29 | | Table B-19 Bear Creek near Cathay | Maximum Discharge 1963 Water Year — flow | 3850E | 4170E |
| | | | gage ht. | 9.98 | 10.07 |
| | | | Maximum Discharge of record — flow | 3850E | 4170E |
| | | | gage ht. | 9.98 | 10.07 |
| B-98 | 8 (12.00-13.75) | Table B-87 Tranquillity Irrigation District | Diversions — Oct. | 204 | 204 |
| | | | Nov. | | |
| | | | Dec. | | |
| | | | Jan. | | 52 |
| | | | Feb. | 1777 | 2005 |
| | | | March | 4066 | 4112 |
| | | | April | | 383 |
| | | | May | | 2291 |
| | | | June | | 7200 |
| | | | July | 557 | 7454 |
| | | | Aug. | 6306 | 6659 |
| | | | Sept. | 1414 | 1414 |
| | | | Total | 14324 | 31774 |
| | | Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley | | | |
| 68 | | Table B-4 Miami Creek near Oakhurst | Maximum Discharge of record | 1140E | 804 |
| 78 | | Table B-4 Bear Creek near Catheys Valley | Maximum Discharge of record — flow | 3850E | 4170E |
| | | | gage ht. | 9.98 | 10.07 |
| | | Bulletin No. 130-65 Hydrologic Data 1965 Volume IV, San Joaquin Valley | | | |
| 61 | | Table B-5 Miami Creek near Oakhurst | Maximum Discharge of record | 1140E | 804 |
| 72 | | Table B-5 Bear Creek near Catheys Valley | Maximum Discharge of record — flow | 4166E | 4170E |
| | | | gage ht. | 9.97 | 10.07 |
| | | | date | 1-7-65 | 2-1-63 |
| 82 | | Table B-5 Orestimba Creek near Crows Landing | Daily Mean Discharge Jan. 8 | 0.0 | B NR |
| | | | 9 | 0.0 | A NR |
| | | | 10 | 0.0 | C NR |
| | | | 11 | 0.0 | K NR |
| | | | 12 | 0.0 | W NR |
| | | | 13 | 0.0 | A NR |
| | | | 14 | 0.0 | T NR |
| | | | 15 | 0.0 | E NR |
| | | | 16 | 0.0 | R NR |
| | | | 17 | 0.0 | NR |
| 115 | 112.55R | Table B-7 Diversions - San Joaquin River | L. A. Thompson | Delete Entire Line | |
| 117 | 233.63L | Table B-7 United Packing Company | Diversions — Total | omitted in 1965 | 700 |
| | | Bulletin No. 130-66 Hydrologic Data 1966 Volume IV, San Joaquin Valley | | | |
| 76 | | Table B-4 Bear Creek near Catheys Valley | Maximum Discharge of record — flow | 4166E | 4170E |
| | | | gage ht. | 9.97 | 10.07 |
| | | | date | 1-7-65 | 2-1-63 |
| 78 | | Table B-4 Burns Creek at Hornitos | Maximum Discharge 1966 Water Year | 1330E | 2020E |

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

| LOCATION OF ERROR | | | ITEM | CHANGE | |
|---|---|---|---|---|---|
| PAGE | MILE & BANK | NAME | | FROM | TO |
| 86 | | Table B-4 Merced River at Cressey | Minimum discharge 1966 Water Year — Month | 7 | 8 |
| 130 | | Table B-7 Turlock Irrigation District | Total acre-feet diverted - January | 18033 | 1833 |
| | | | Average cubic feet per second | 293 | 29.8 |
| | | | Monthly use in percent of seasonal | 3.5 | 0.4 |
| | | | Total Diversion | 516577 | 500377 |
| | | | Average cubic feet per second | 714 | 691 |
| 133 | | Table B-9 Exports from Tuolumne River | Total acre-feet — Oct. | 15655 | 15696 |
| | | | Nov. | 12685 | 12721 |
| | | | Dec. | 14987 | 15023 |
| | | | Jan. | 7812 | 7851 |
| | | | Feb. | 11913 | 11946 |
| | | | March | 15566 | 12607 |
| | | | April | 11060 | 11106 |
| | | | May | 15208 | 15260 |
| | | | June | 18388 | 18438 |
| | | | July | 21398 | 21462 |
| | | | Aug. | 21312 | 21379 |
| | | | Sept. | 19498 | 19552 |
| | | | Total | 185482 | 183041 |
| | | *Bulletin No. 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley | | | |
| 122 | 255.34R | Table B-6 Sycamore Island Stock Ranch 5 | Diversions — Sept. | 40 | 17 |
| | | | Total | 278 | 255 |
| | | Bulletin No. 130-68 Hydrologic Data 1968 Volume IV, San Joaquin Valley | | | |
| 104 | | Table B-5 Laguna Water District | Diversions — May | | 90 |
| | | | June | | 110 |
| | | | July | | 110 |
| | | | Aug. | | 90 |
| | | | Total | | 400 |
| 107 | 1.9 L<br>2.9 L | Table B-5 J. V. Steenstrup Estate | Name | J. V. Steen-strup Estate | John & Robert Bogetti |
| | | Bulletin No. 130-69 Hydrologic Data 1969 Volume IV, San Joaquin Valley | | | |
| 54 | | Table B-4 San Joaquin River near Dos Palos | Maximum Discharge 1969 Water Year — Month | 3 | 6 |
| | | | Day | 11 | 16 |
| | | | Time | 2300 | 0800 |
| | | | Gage Ht. | 10.42 | 10.38 |
| | | | Flow | 5560 | 5900 |
| 78 | | Table B-4 Merced River below Snelling | Daily Mean Discharge Jan. 21 | 946 | 980 |
| | | | Monthly Mean | 189 | 190 |
| | | | Monthly acre-feet | 11620 | 11680 |
| 87 | | Table B-4 San Joaquin River at Maze Road Bridge | Maximum 1969 Water Year — Discharge | 42800 | 45550 |
| | | | Gage Ht. | 36.46 | 36.87 |
| | | | Time | 0400 | 0300 |
| | | | Maximum Discharge of record — CFS | 42800 | 45550 |
| | | | Gage Ht. | 36.46 | 36.87 |
| | | | Last line — Feet | 37.00 | 38.31 |
| | | | Hours | 2400 | 2000 |
| | | | Date | 2-28-69 | 1-27-69 |
| 95 | | Table B-4 Tule River below Porterville | Maximum Discharge 1969 Water Year — Discharge | | 3066 |
| | | | Gage Ht. | | 5.35 |
| | | | Month | | 2 |
| | | | Day | | 26 |
| | | | Time | | 1200 |
| 130 | | Table B-12 San Joaquin River at Fremont Ford Bridge | Maximum Discharge of Record — CFS | 8260b | 9180b |
| | | | Gage Ht. | 68.02 | 68.05 |
| | | | Date | 2-27-69 | 2-26-69 |
| | | | Footnote a | Delete Entire Note | |

* Additional corrections for 1967 are listed on page 120

## TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

| LOCATION OF ERROR | | | ITEM | CHANGE | |
|---|---|---|---|---|---|
| PAGE | MILE & BANK | NAME | | FROM | TO |
| 133 | | Table B-12 San Joaquin River near Newman | Maximum Discharge of Record CFS | 33300a | 34700a |
| 140 | | Table B-12 San Joaquin River at Maze Road Bridge | Maximum Discharge of Record Gage Ht. | 37.00a | 38.31a |
| | | | Date | 2-28-69 | 1-27-69 |
| | | Bulletin No. 130-70 Hydrologic Data 1970 Volume IV, San Joaquin Valley | | | |
| 95 | | Table B-4 Woods-Central Ditch near Porterville | Daily Mean Discharge June 5 | 132.0 | 27.5 |
| | | | Monthly Acre-feet | 7604 | 7397 |
| | | | Water Year Total | 43386 | 43179 |
| 102 | | Table B-6 Firebaugh Canal Company | Diversion for April | 9657 | 7370 |
| | | Firebaugh Canal Company | Total Diversion for Year | 51595 | 49308 |
| | | Fremont Ford Bridge to Gravelly Ford | Total for Reach | 897796 | 895509 |
| 108 | | Table B-6 Woods-Central Ditch | Diversions June | 7604 | 7397 |
| | | | Total | 43386 | 43179 |
| 117 | | Table B-11 San Joaquin River at Fremont Ford Bridge | Maximum Discharge of record CFS | 8260b | 9180b |
| | | | Gage Ht. | 68.02 | 68.05 |
| | | | Date | 2-27-69 | 2-26-69 |
| | | | Footnote a | Delete Entire Note | |
| 120 | | Table B-11 San Joaquin River near Newman | Maximum Discharge of Record CFS | 33300a | 34700a |
| | | Bulletin No. 130-73 Hydrologic Data 1973 Volume IV, San Joaquin Valley | | | |
| 78 | | Table B-3 Friant-Kern Canal Delivery to Tule River | Discharge Monthly March Acre-feet | 3906 | 0 |
| | | | April Acre-feet | 0 | 3906 |
| | | Bulletin 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley | | | |
| 128 | | Merced Irrigation District, Main Canal | | | |
| | | Table B-7 Diversion and Acreage Irrigated East Side Canals and Irrigation Districts | Monthly Acre-feet Jan | 0 | 1227 |
| | | | Feb | 0 | 1100 |
| | | | Mar | 504 | 1575 |
| | | | Total Acre-feet | 548009 | 551407 |

# 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. In preparation of the ground water maps most of the well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 500 wells for reporting of actual measurements.

This appendix presents ground water measurement data on these wells for the period October 1, 1973, through September 30, 1974. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on 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.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:

5-22.15

Region (Central Valley Region)

Ground Water Basin (San Joaquin Valley)

District or area (Fresno Irrigation District)

The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:

13S / 19E - 16 K 01 M

Township

Range

Section

Tract

Sequence Number

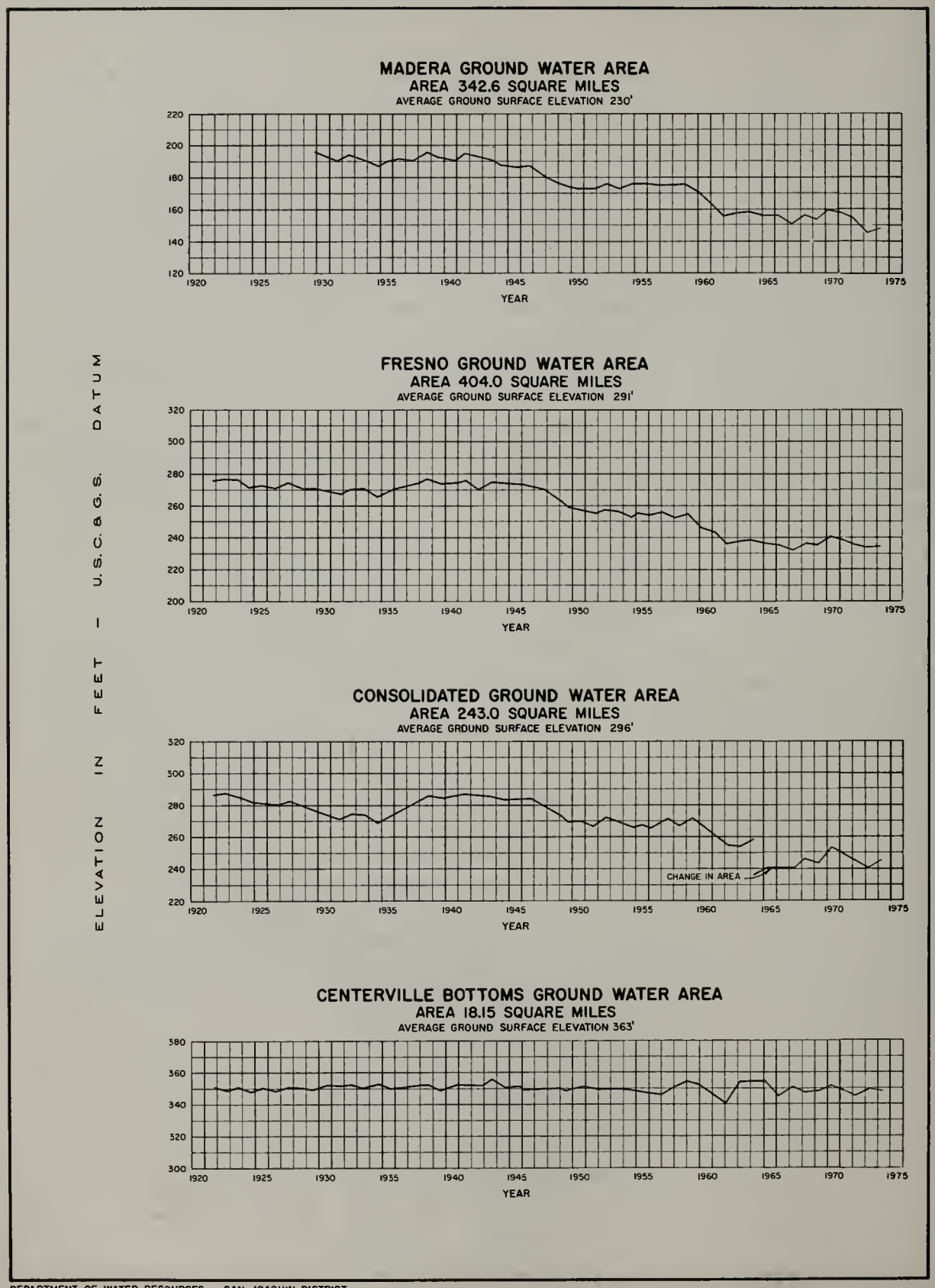
Base and Meridian (M) Mount Diablo (S) San Bernardino

This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

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

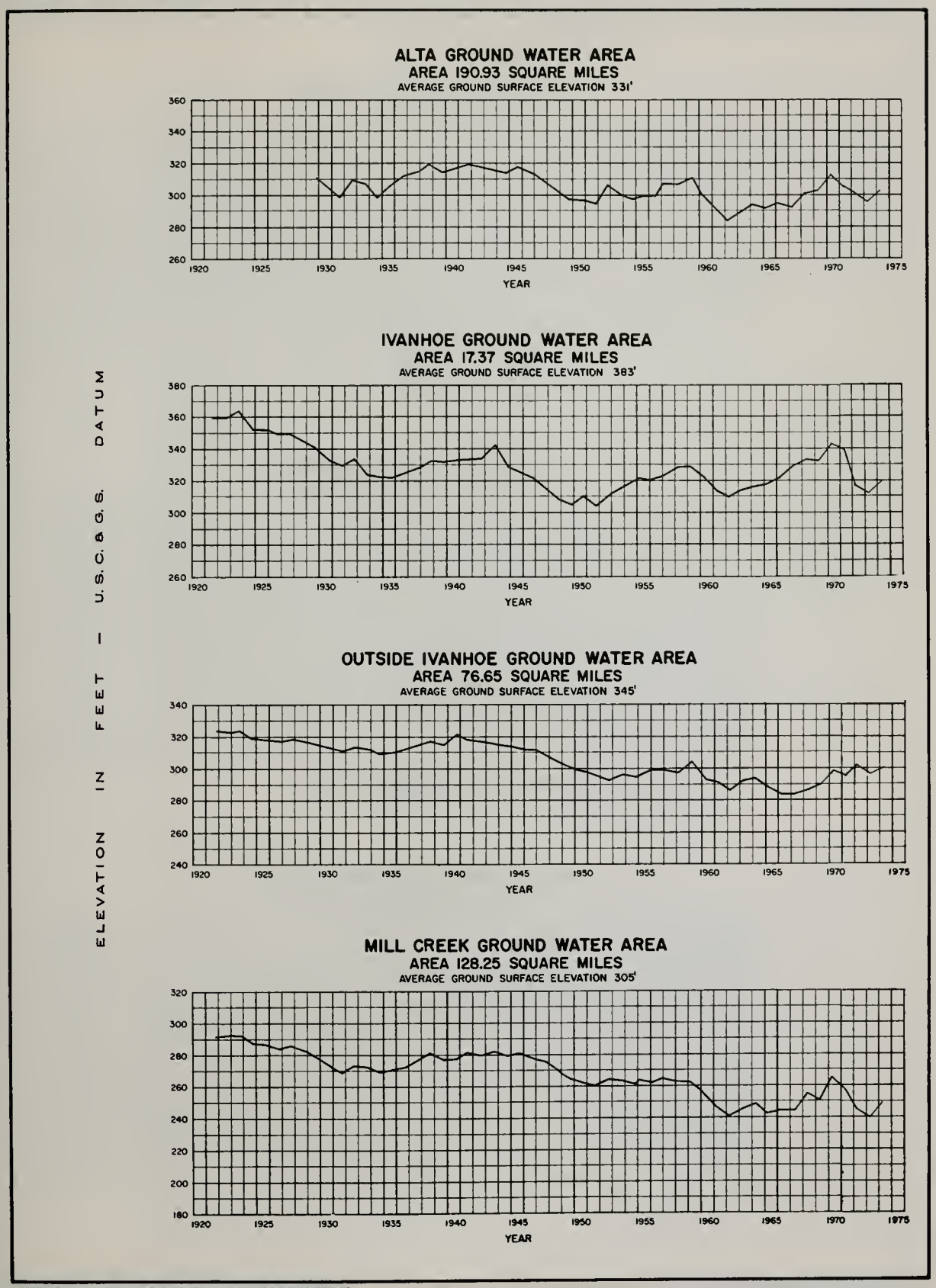
Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

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



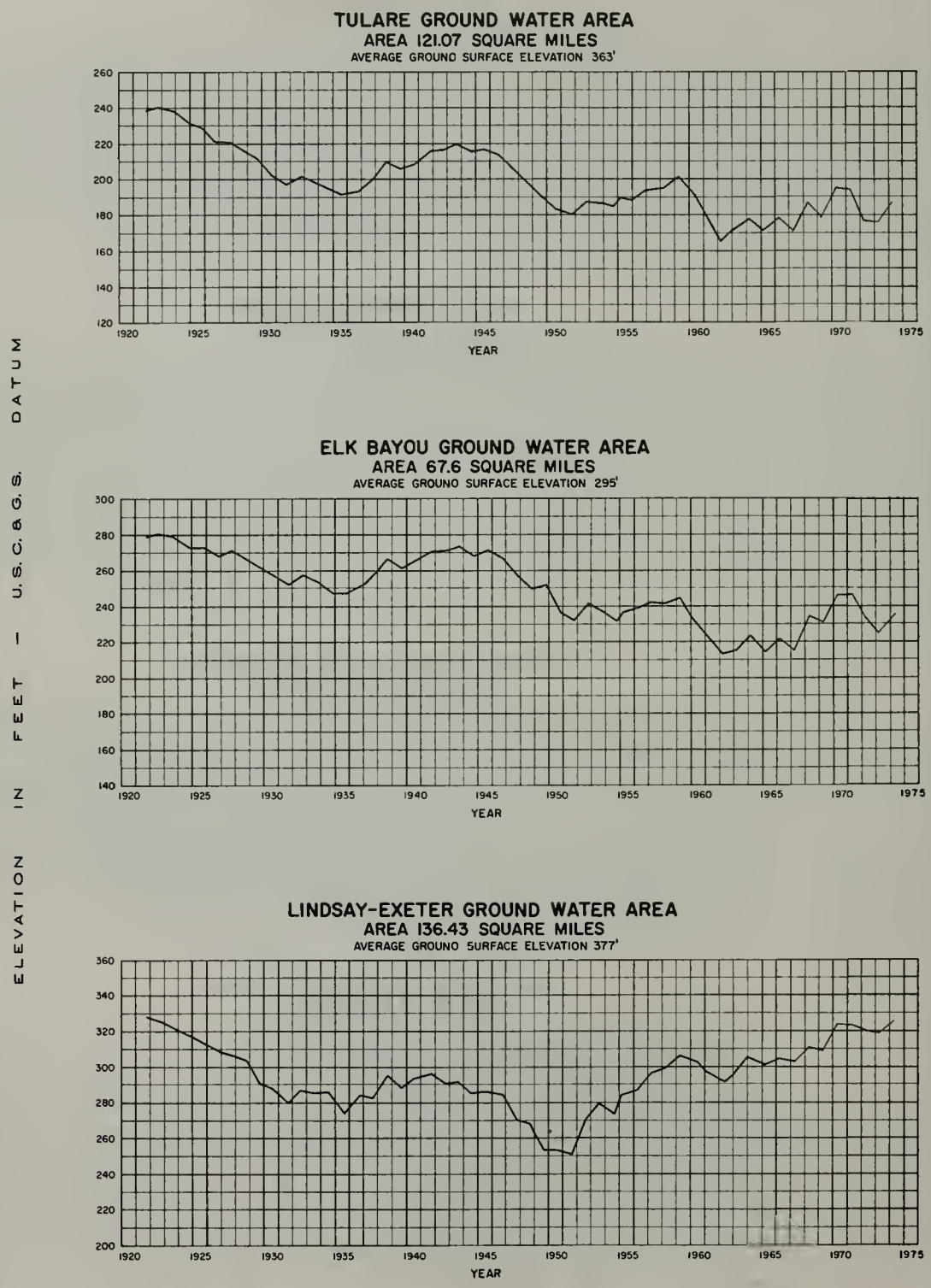

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



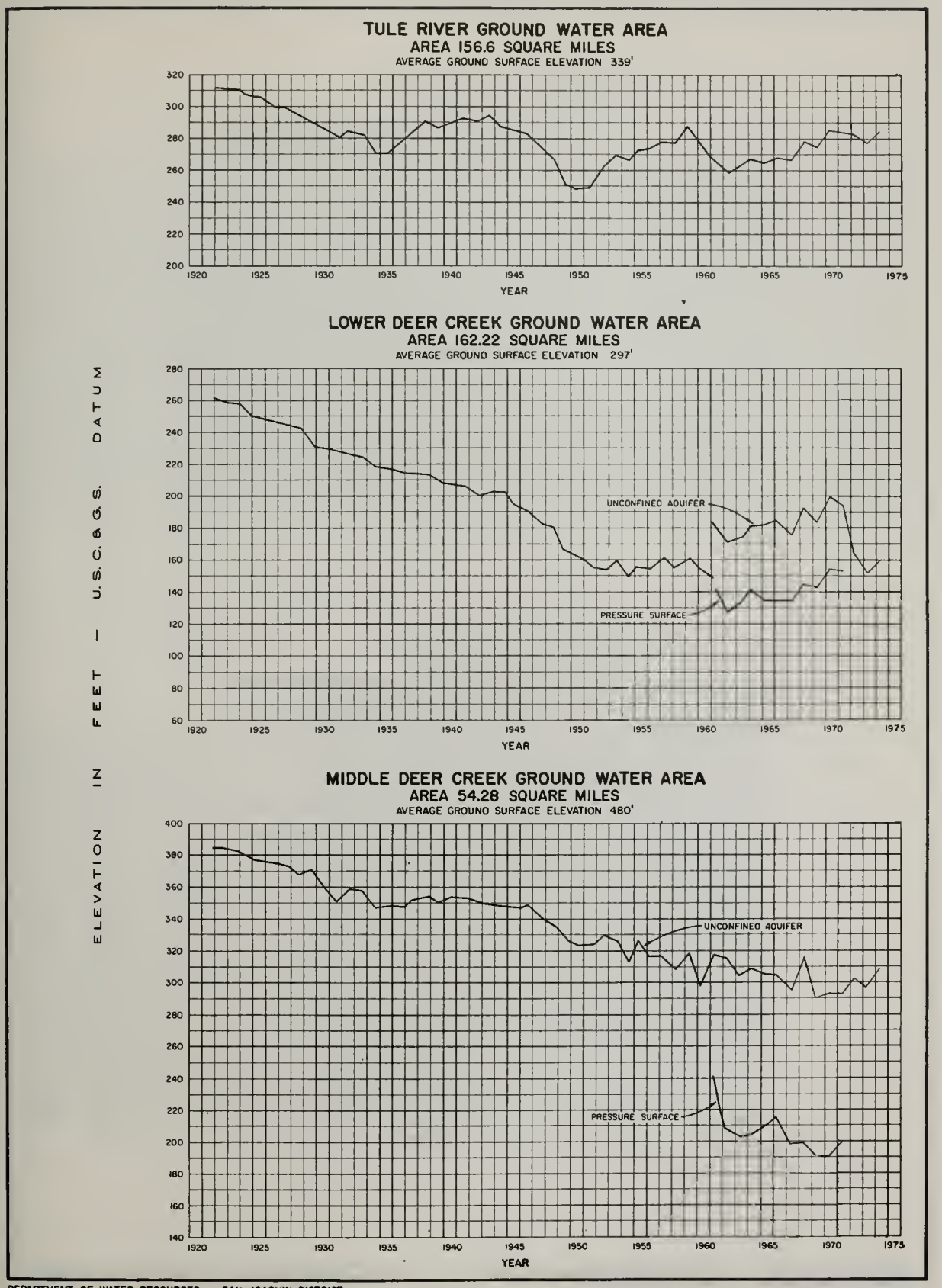

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



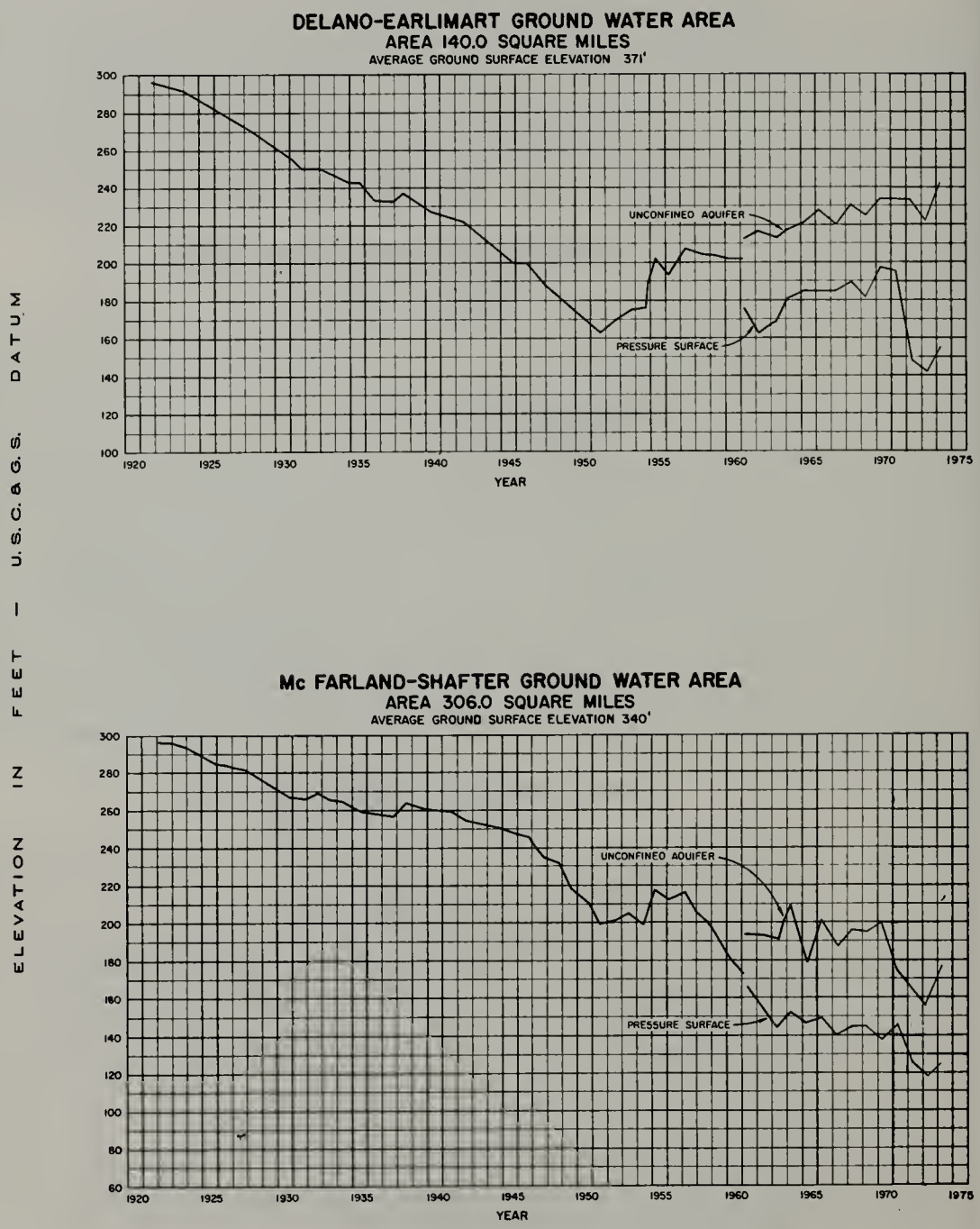

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



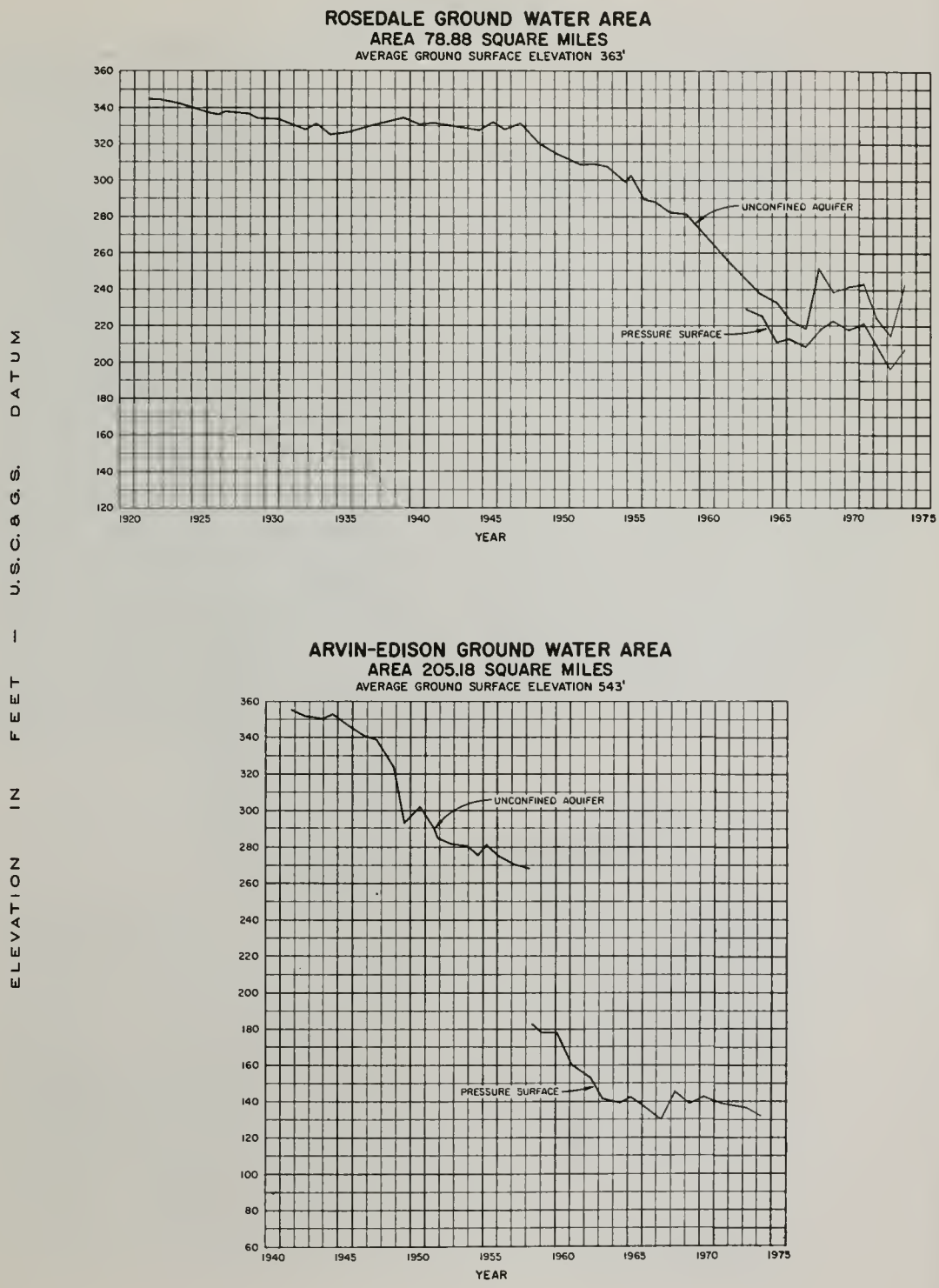

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



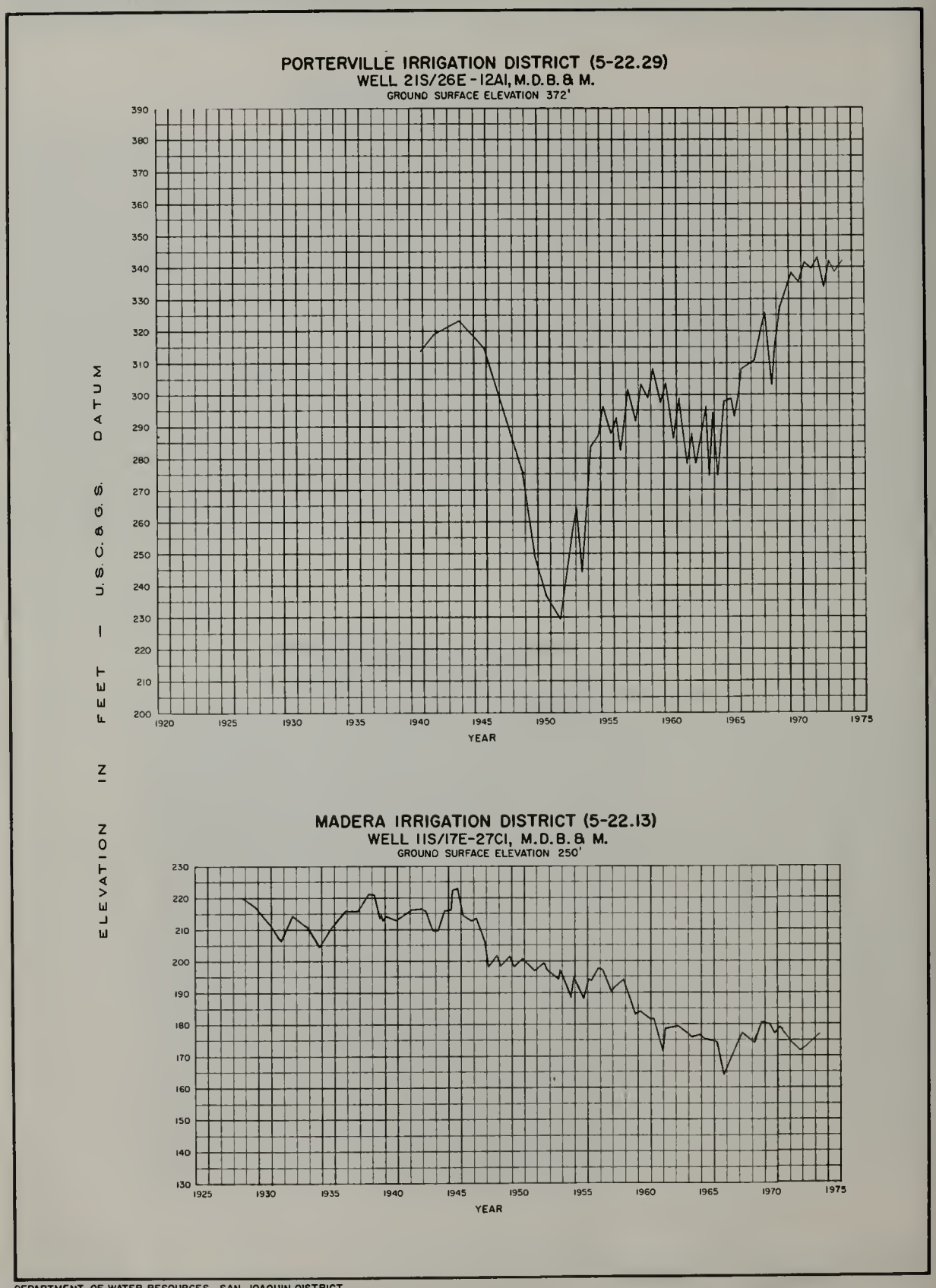

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



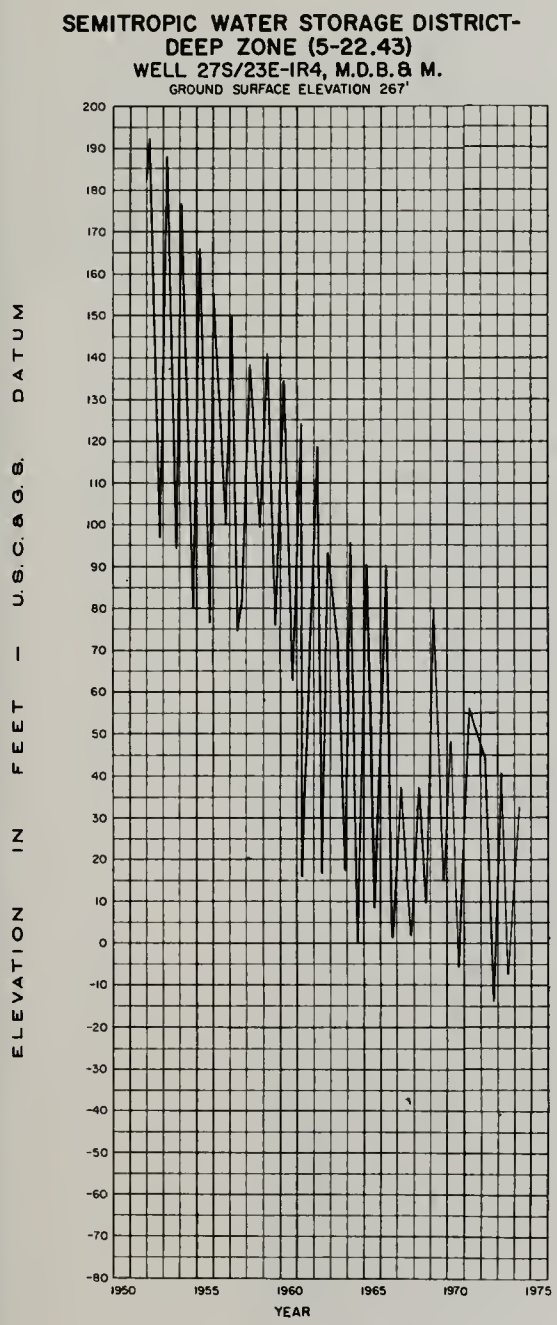

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

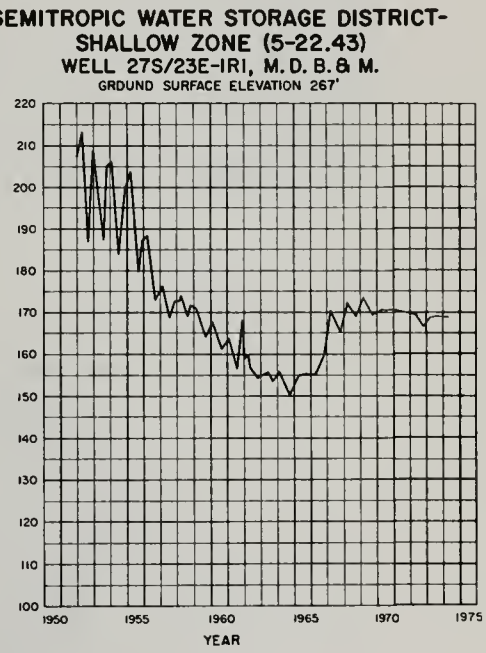
Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

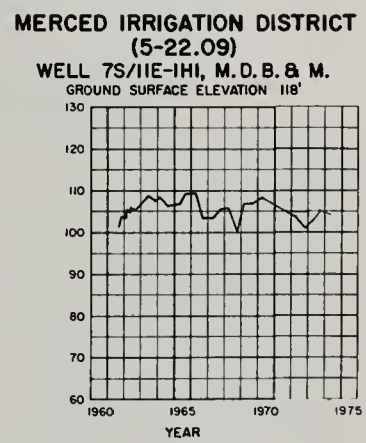



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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

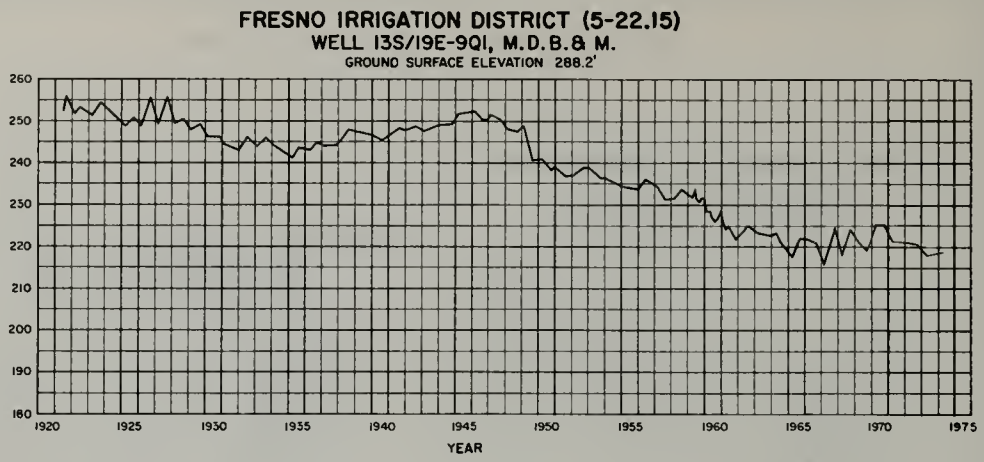


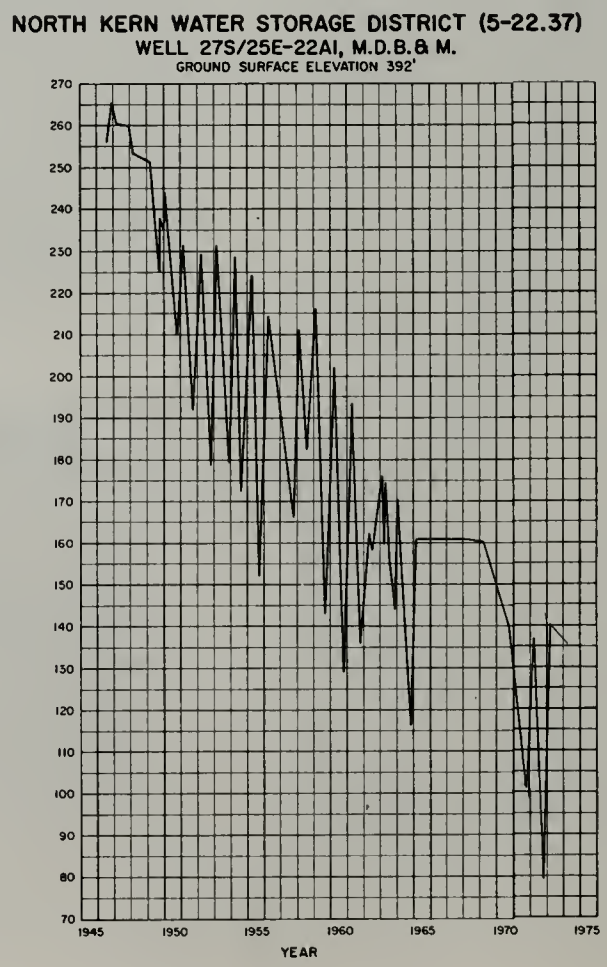




DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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

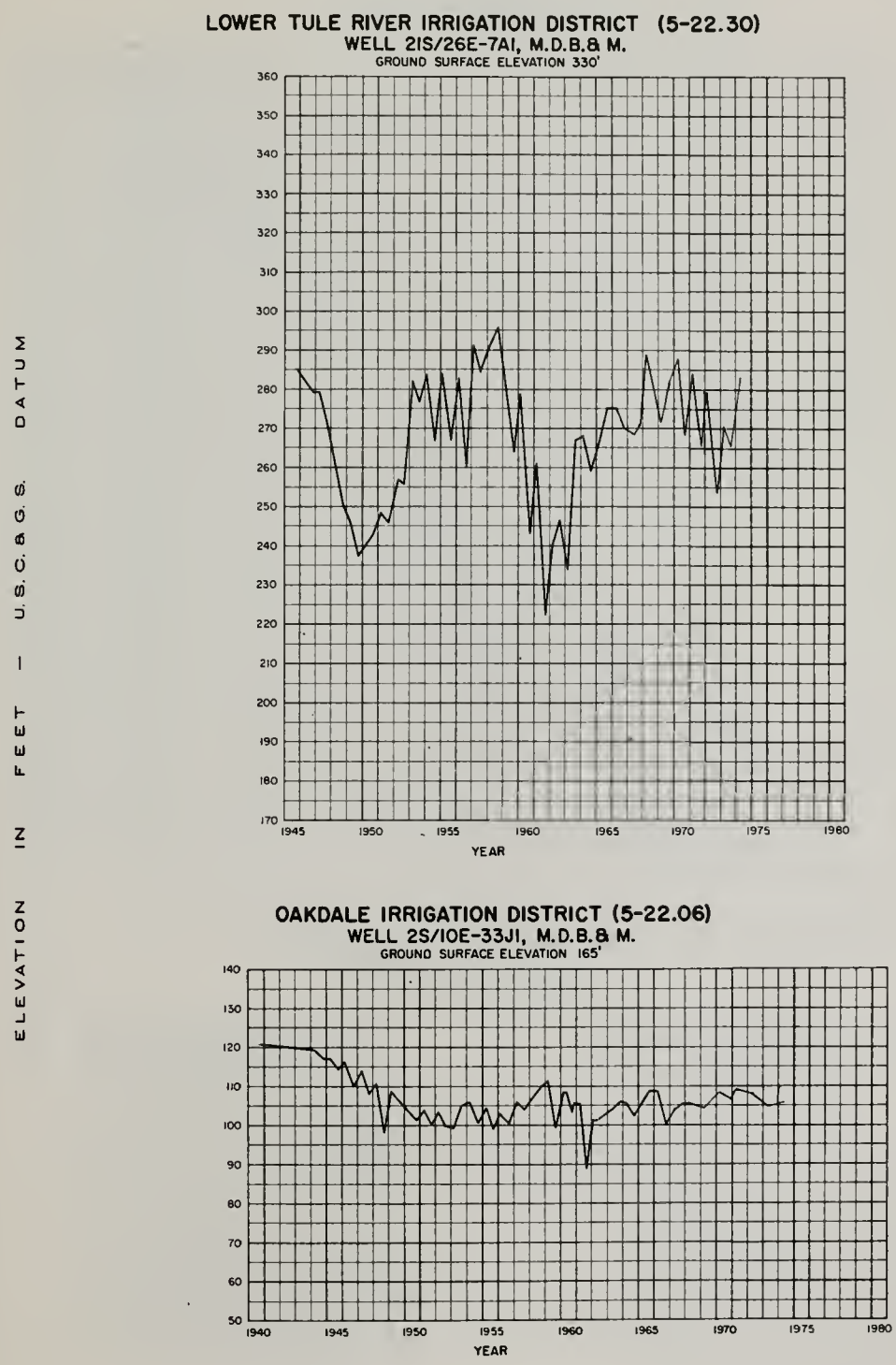



ELEVATION IN FEET — U.S.C.& G.S. DATUM

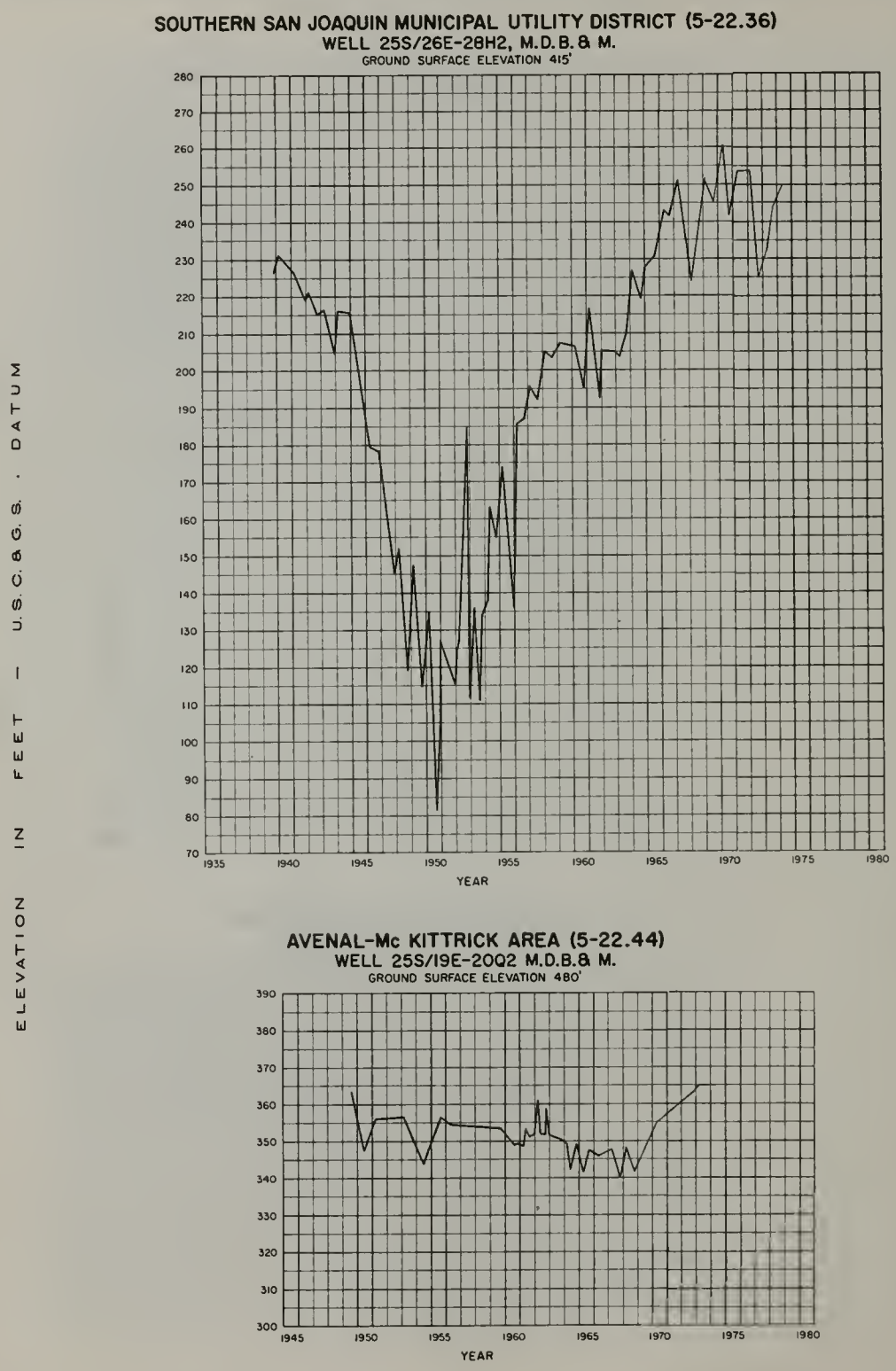
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



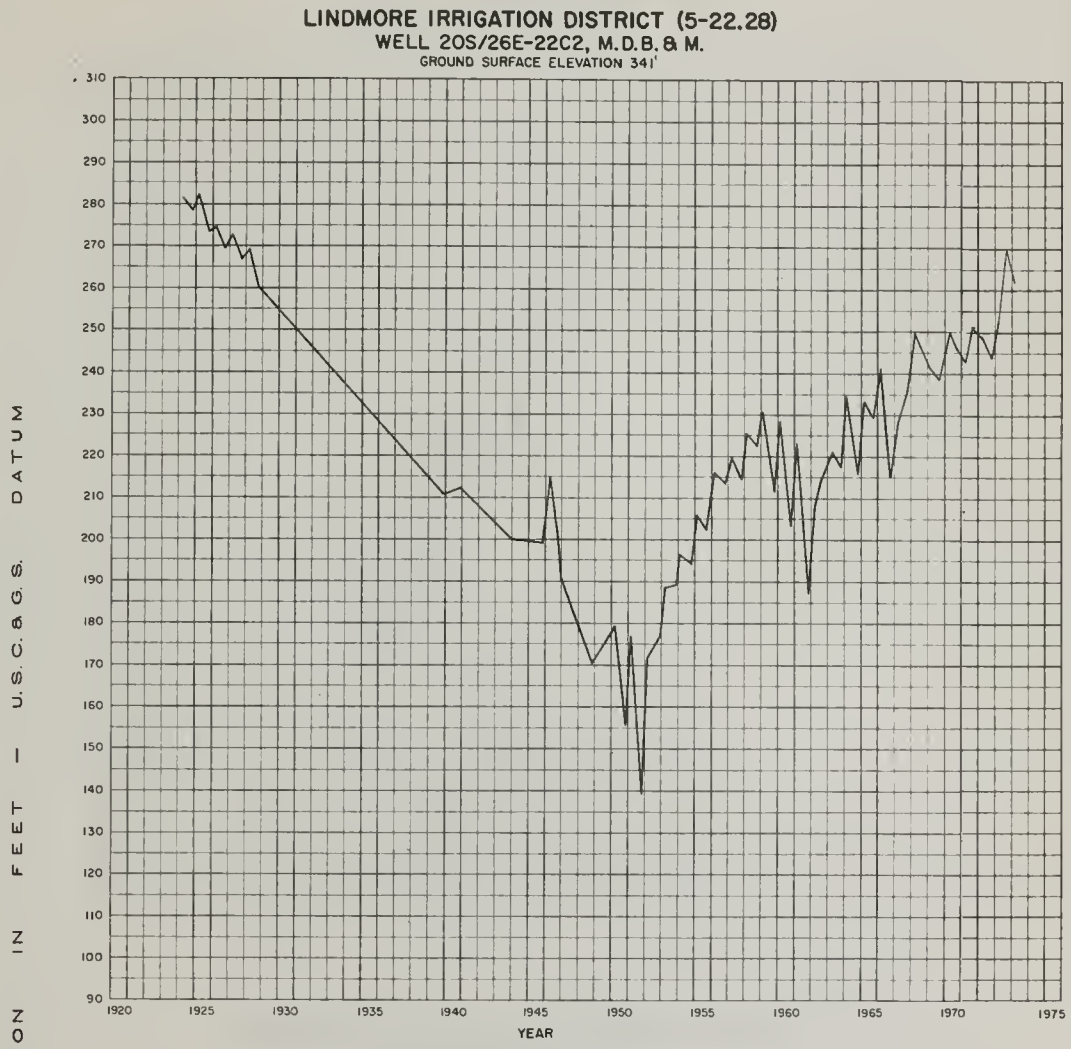

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

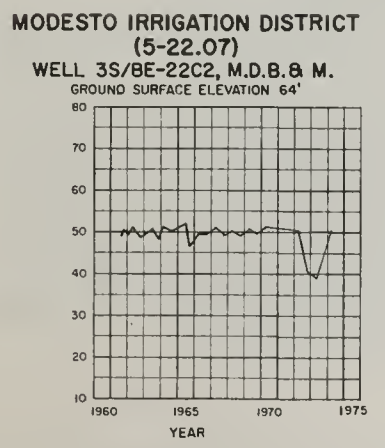
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

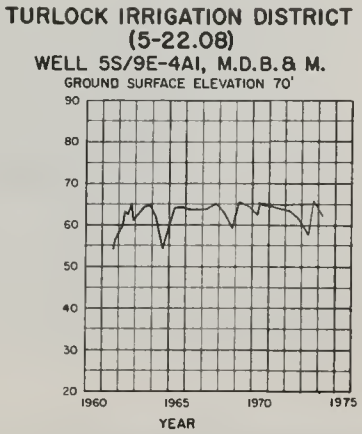



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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

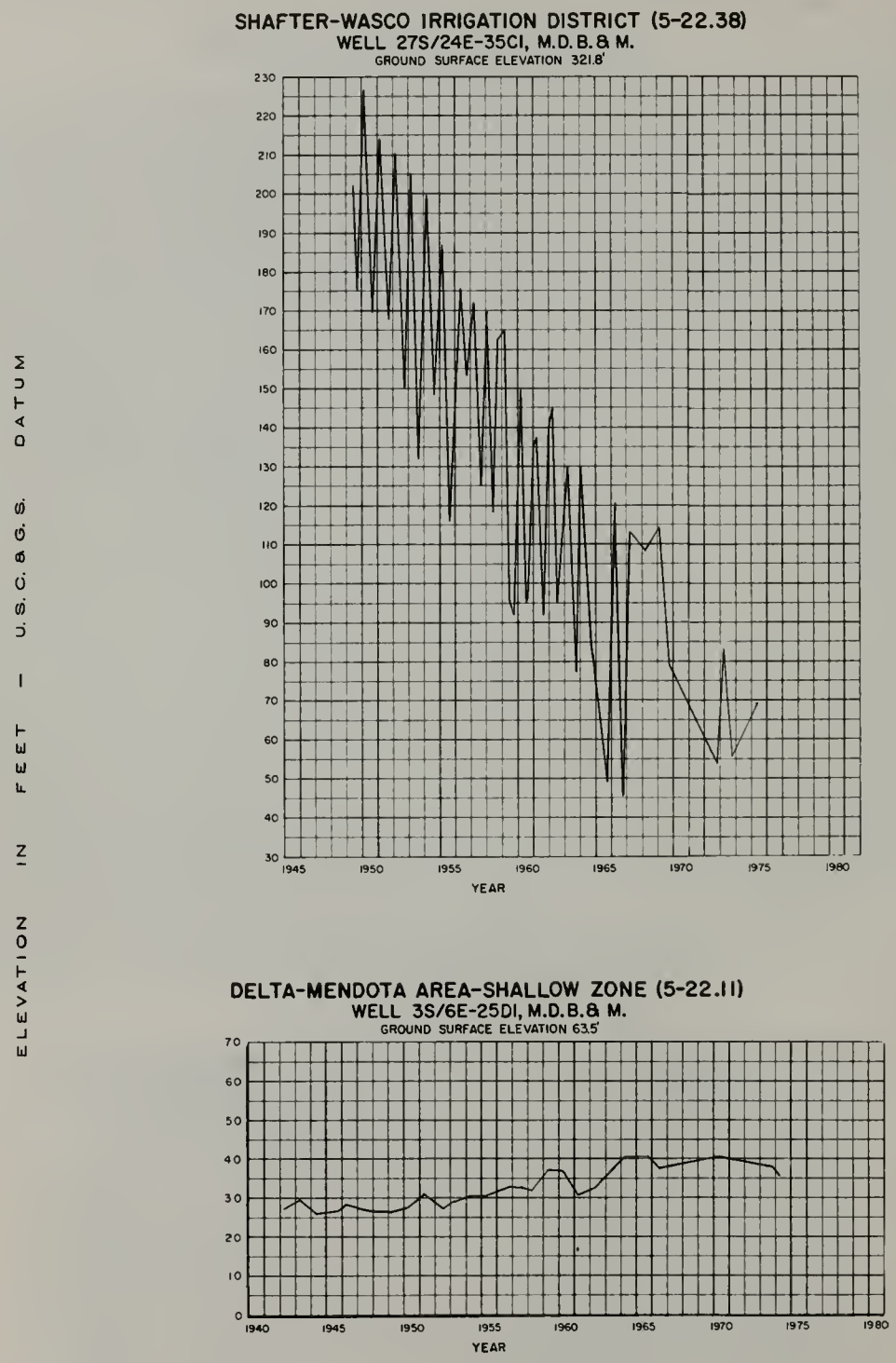


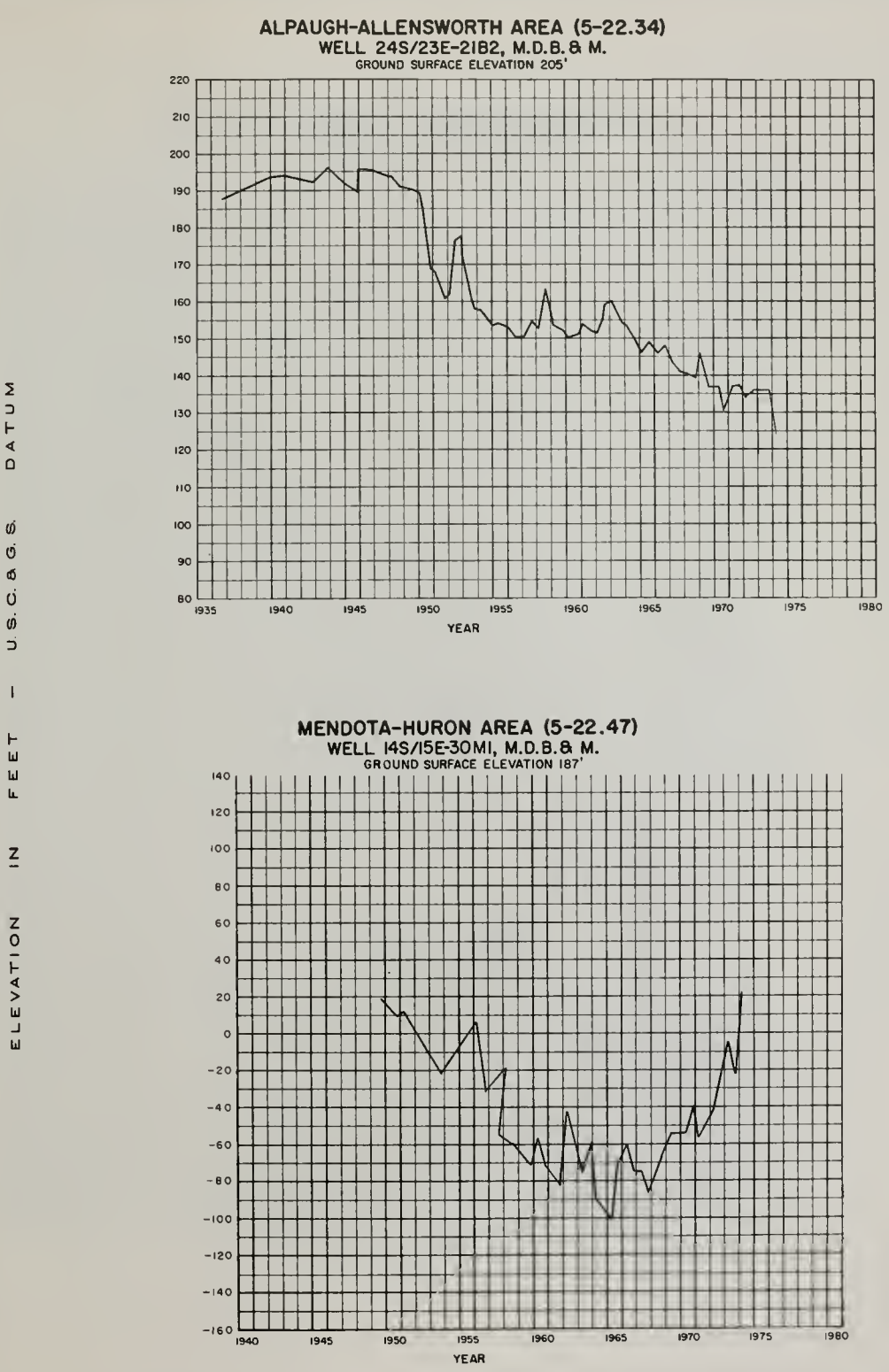

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



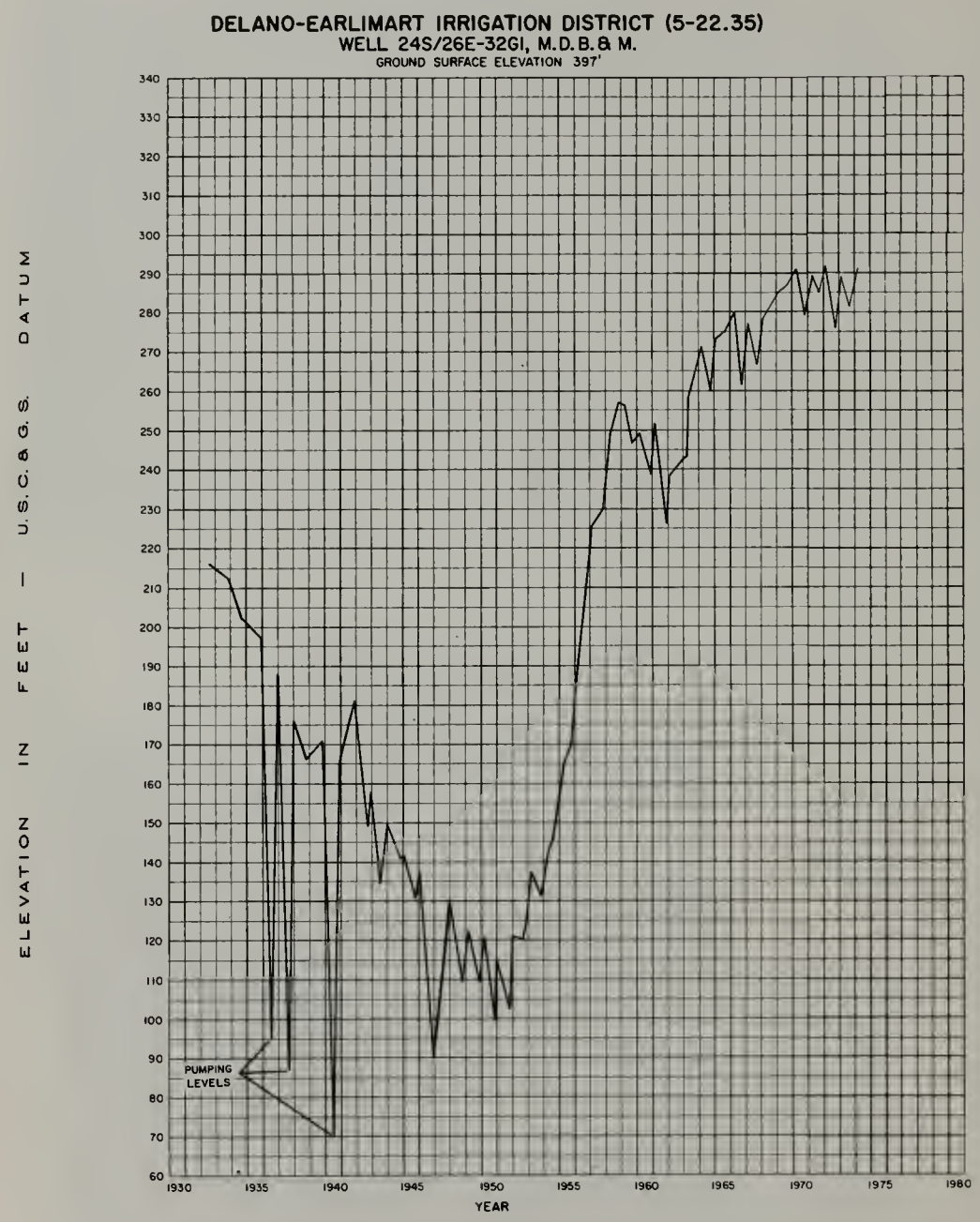

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



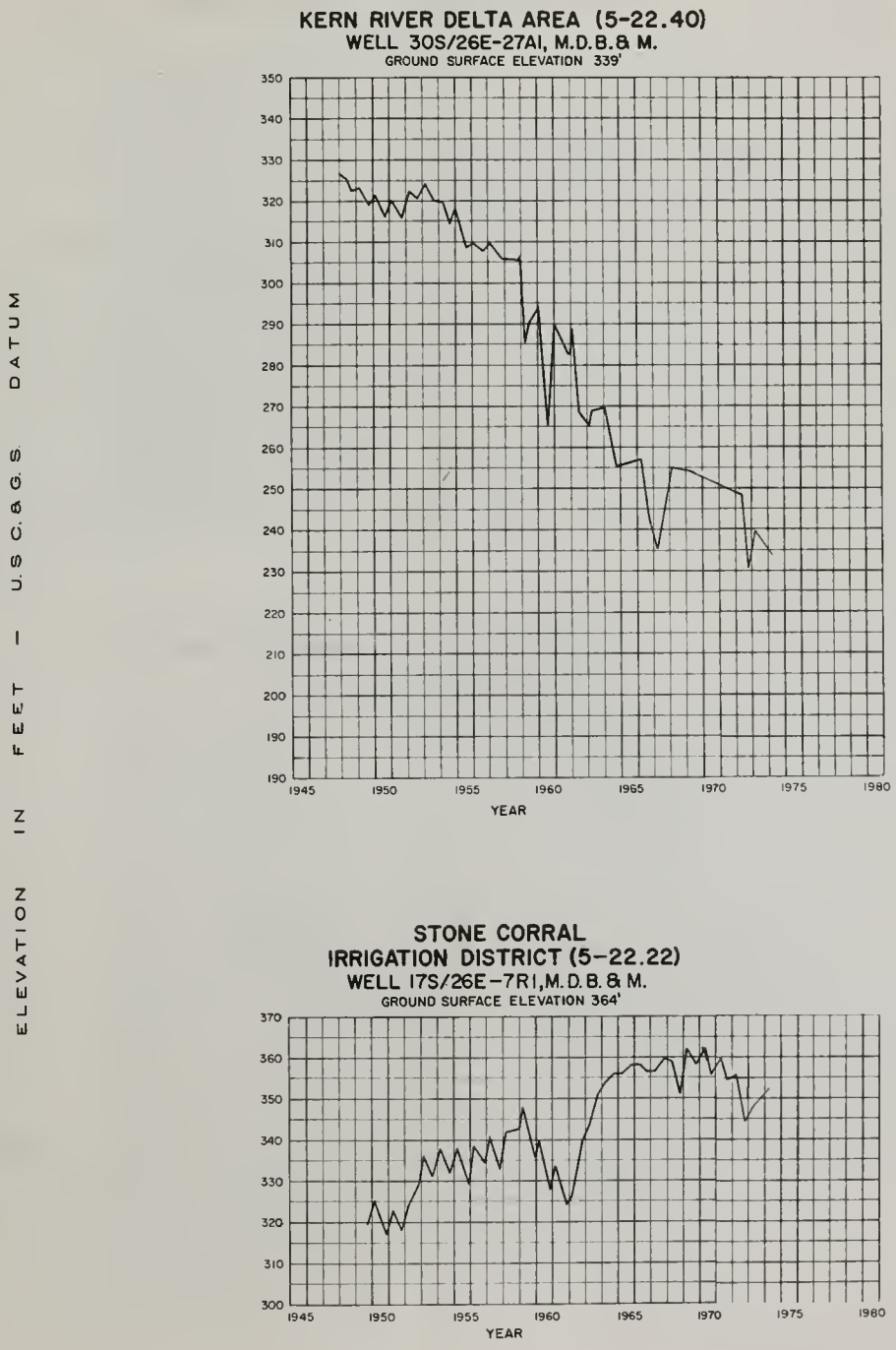

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



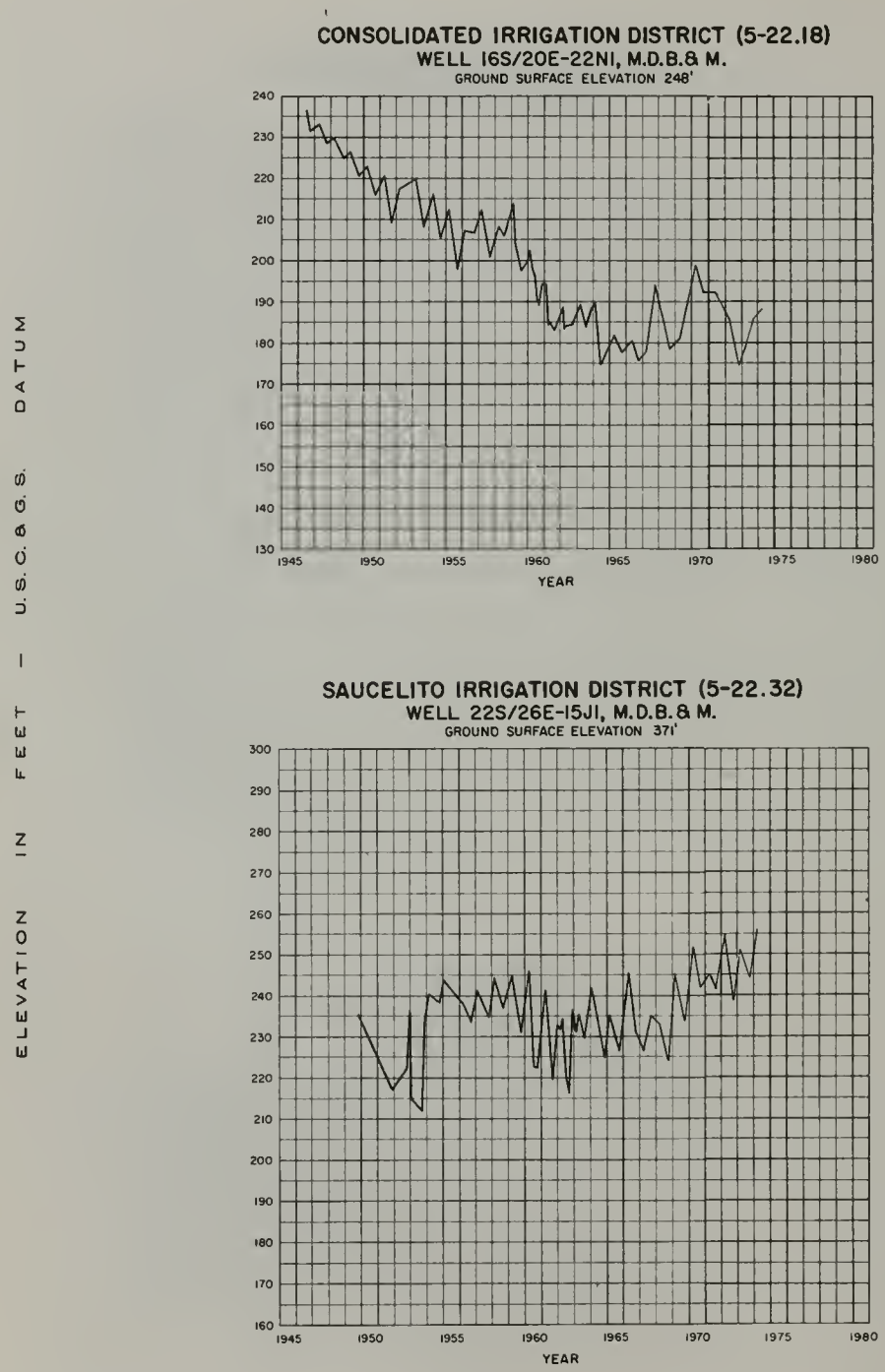

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



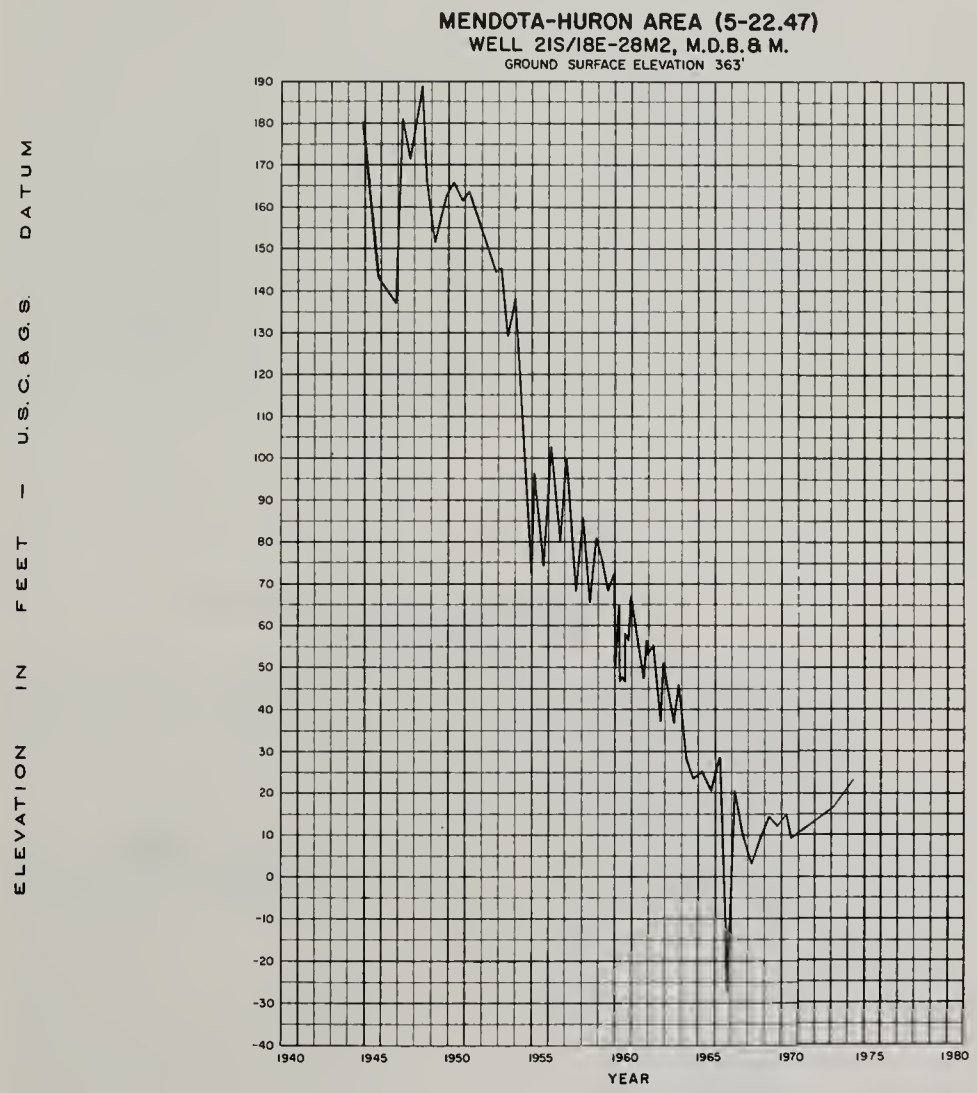

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



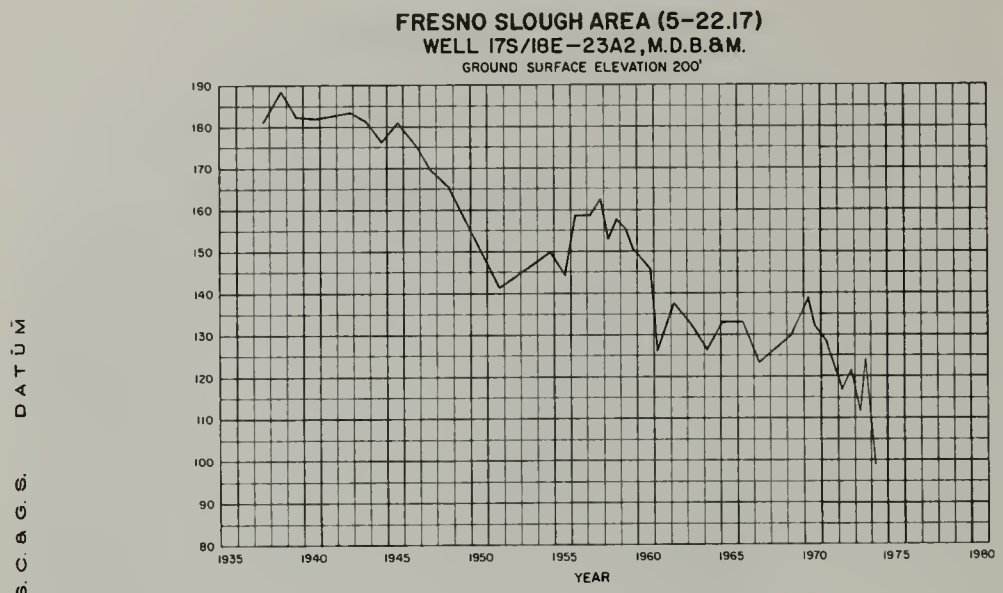

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

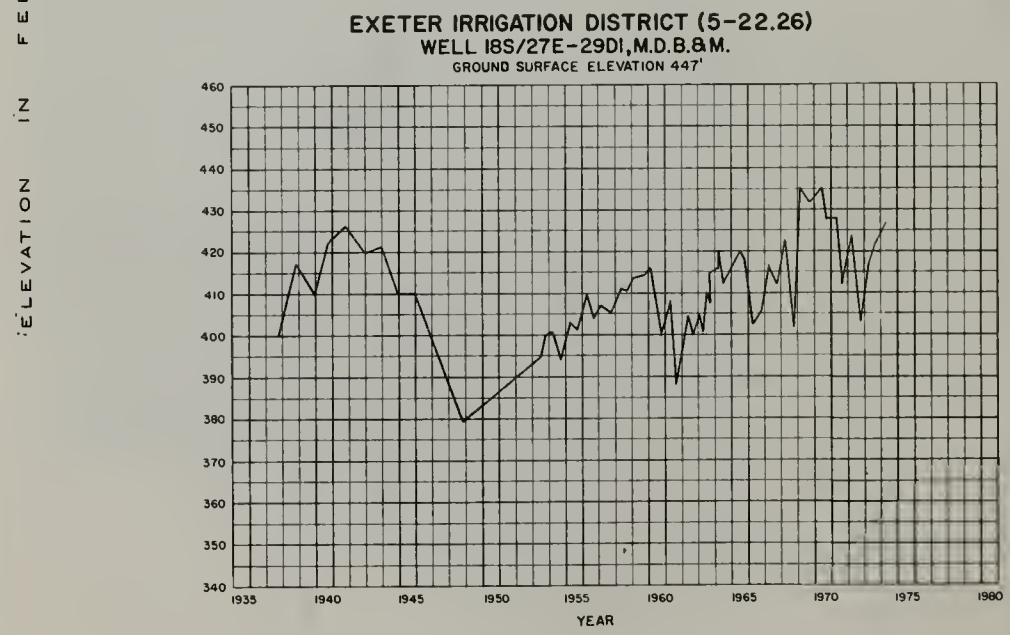
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS




DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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

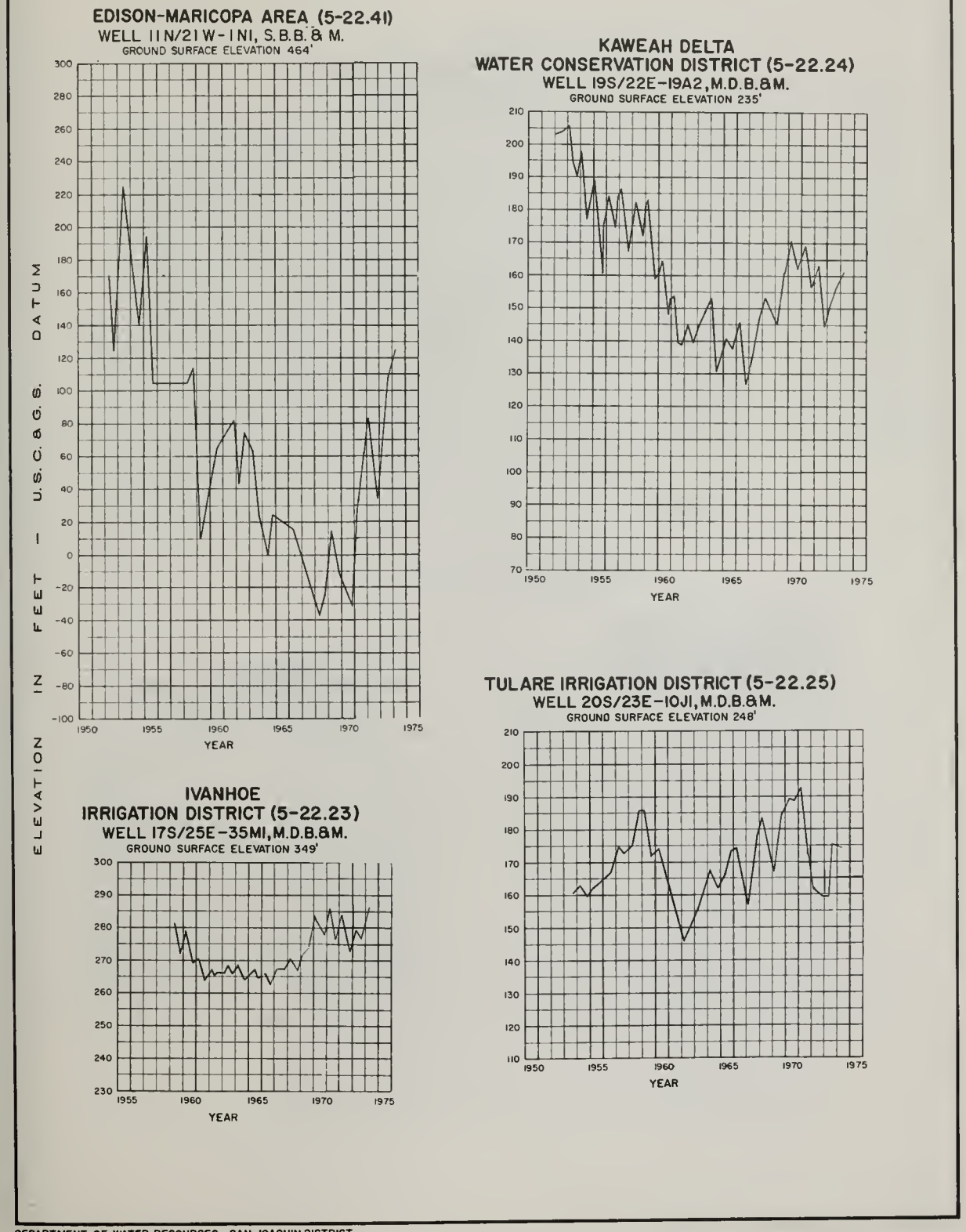



ELEVATION IN FEET — U.S.C.&G.S. DATUM

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

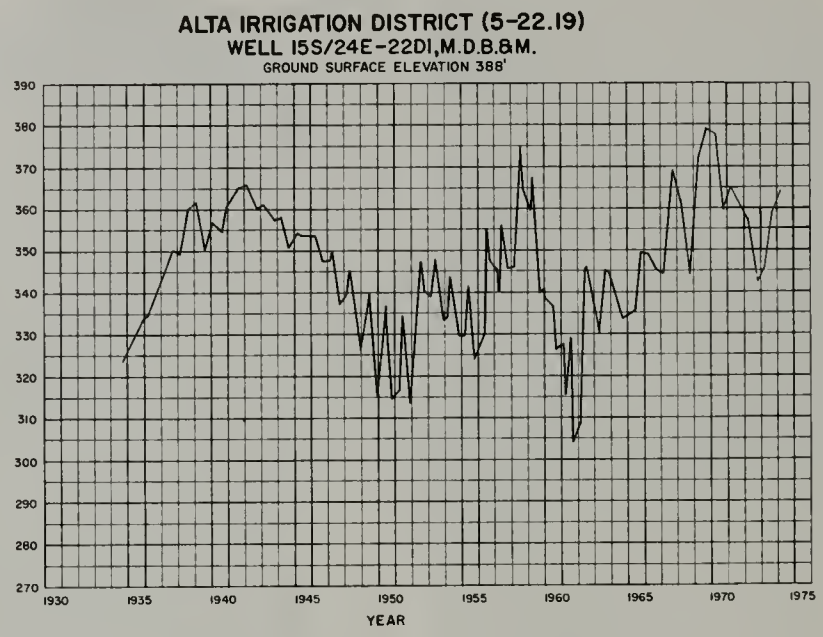
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

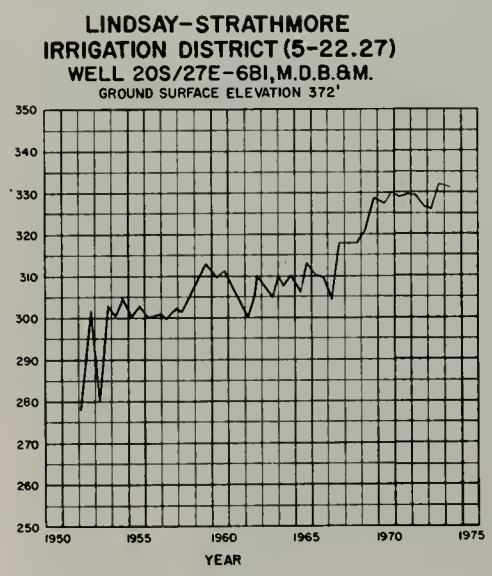


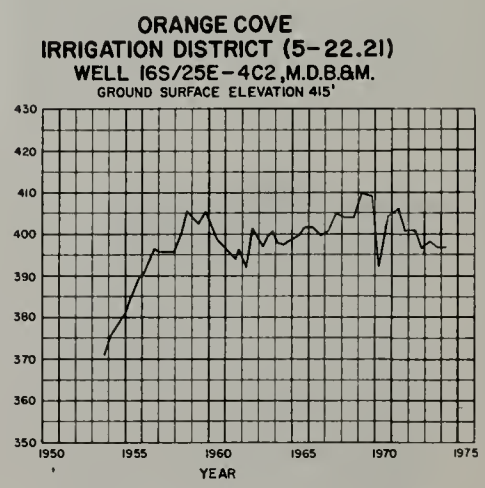

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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

ELEVATION IN FEET – U.S.C.&G.S. DATUM

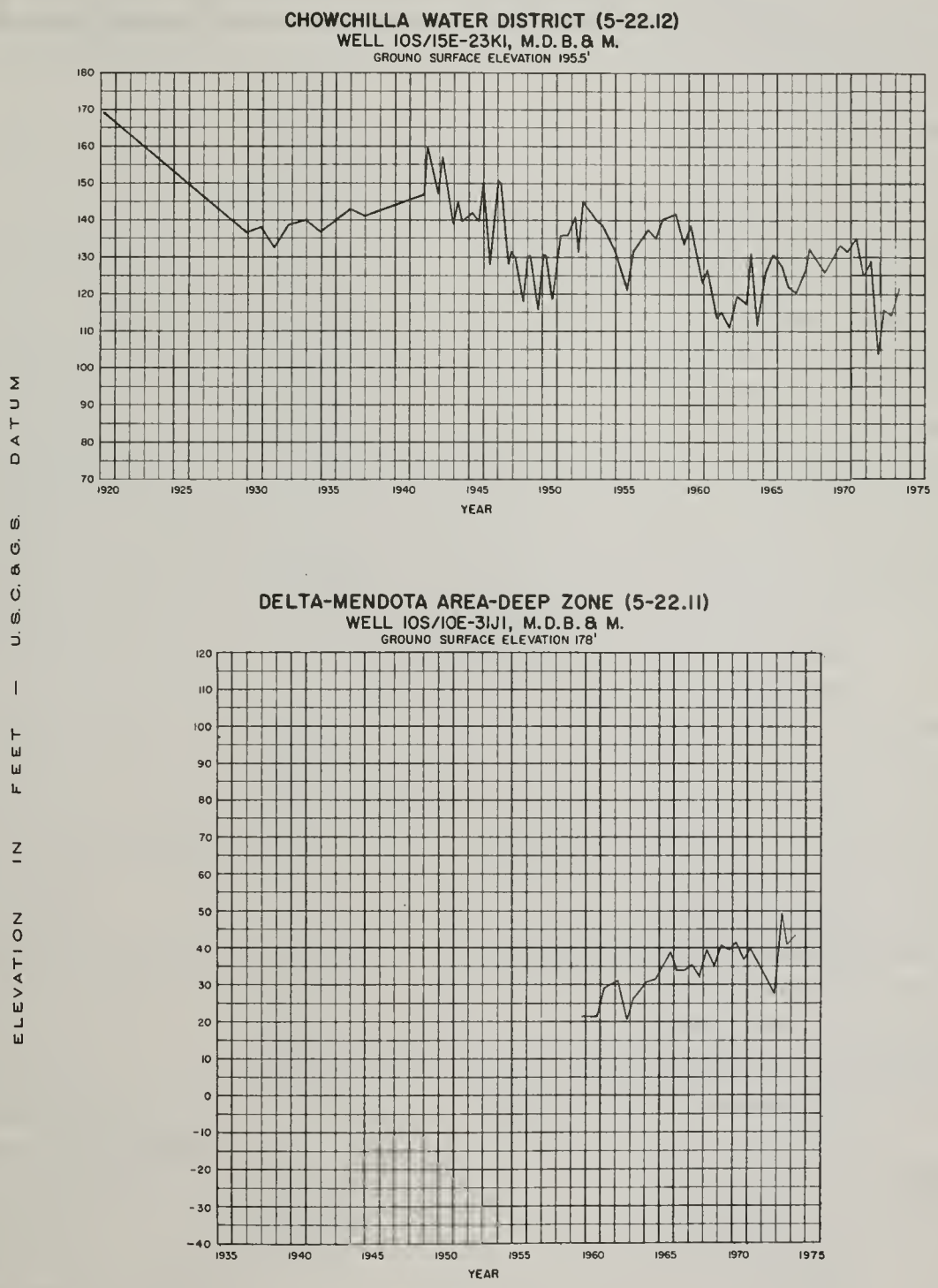



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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




DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

TABLE C-1

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1973 - Spring 1974

| Ground Water Districts or Areas | | Number of Wells Considered in Analysis[a] | Change in Feet |
|---|---|---|---|
| Name | Number | | |
| San Joaquin Valley | 5-22.00 | | |
| Oakdale Irrigation District | 5-22.06 | | + 1.4 |
| Modesto Irrigation District | 5-22.07 | | - 0.1 |
| Turlock Irrigation District | 5-22.08 | | - 1.0 |
| Merced Irrigation District | 5-22.09 | | 0.0 |
| El Nido Irrigation District | 5-22.10 | | + 2.9 |
| Delta-Mendota Area | 5-22.11 | 257 | 0.0 |
| Chowchilla Water District | 5-22.12 | | + 4.0 |
| Madera Irrigation District | 5-22.13 | | + 4.0 |
| West Chowchilla-Madera Area | 5-22.14 | | + 2.2 |
| Fresno Irrigation District | 5-22.15 | | + 4.7 |
| City of Fresno | 5-22.16 | 60 | + 0.1 |
| Fresno Slough Area | 5-22.17 | | - 2.7 |
| Consolidated Irrigation District | 5-22.18 | | + 5.3 |
| Alta Irrigation District | 5-22.19 | | + 7.4 |
| Lower Kings River Area | 5-22.20 | | |
| Shallow Zone | | | + 0.6 |
| Deep Zone | | | +11.9 |
| Orange Cove Irrigation District | 5-22.21 | 63 | + 5.5 |
| Stone Corral Irrigation District | 5-22.22 | 10 | + 3.2 |
| Ivanhoe Irrigation District | 5-22.23 | | + 8.9 |
| Kaweah-Delta Water Conservation District | 5-22.24 | | + 8.6 |
| Tulare Irrigation District | 5-22.25 | | + 9.9 |
| Exeter Irrigation District | 5-22.26 | | +11.2 |
| Lindsay-Strathmore Irrigation District | 5-22.27 | | + 4.3 |
| Lindmore Irrigation District | 5-22.28 | | + 7.3 |
| Porterville Irrigation District | 5-22.29 | 16 | + 6.7 |
| Lower Tule River Irrigation District | 5-22.30 | | |
| Shallow Zone | | | + 7.1 |
| Deep Zone | | Insufficient data to compute change. | |
| Vandalia Irrigation District | 5-22.31 | 6 | + 2.3 |
| Saucelito Irrigation District | 5-22.32 | | |
| Shallow Zone | | | + 9.5 |
| Deep Zone | | Insufficient data to compute change. | |
| Pixley Irrigation District | 5-22.33 | | |
| Shallow Zone | | | + 3.8 |
| Deep Zone | | | + 0.7 |

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1973 - Spring 1974

| Ground Water Districts or Areas | | Number of Wells Considered in Analysis[a] | Change in Feet |
|---|---|---|---|
| Name | Number | | |
| San Joaquin Valley (Continued) | | | |
| Alpaugh-Allensworth Area | 5-22.34 | | |
| Shallow Zone | | | -10.7 |
| Deep Zone | | | -14.5 |
| Delano-Earlimart Irrigation District | 5-22.35 | | |
| Shallow Zone | | | +13.1 |
| Deep Zone | | Insufficient data to compute change | |
| Southern San Joaquin Municipal Utility District | 5-22.36 | | |
| Shallow Zone | | | + 7.6 |
| Deep Zone | | | +11.4 |
| North Kern Water Storage District | 5-22.37 | | |
| Shallow Zone | | | +10.5 |
| Deep Zone | | | +11.9 |
| Shafter-Wasco Irrigation District | 5-22.38 | | |
| Deep Zone | | | - 4.3 |
| City of Bakersfield | 5-22.39 | 20 | - 2.1 |
| Kern River Delta Area | 5-22.40 | | |
| Shallow Zone | | | +15.7 |
| Deep Zone | | | - 1.1 |
| Edison-Maricopa Area | 5-22.41 | | |
| Deep Zone | | | - 8.0 |
| Buena Vista Water Storage District | 5-22.42 | | |
| North Area | | | + 8.5 |
| South Area | | Insufficient data to compute change | |
| Semitropic Water Storage District | 5-22.43 | | |
| Shallow Zone | | | + 6.2 |
| Deep Zone | | | + 1.1 |
| Avenal-McKittrick Area | 5-22.44 | Insufficient data to compute change | |
| Tulare Lake-Lost Hills Area | 5-22.45 | Insufficient data to compute change. | |
| Corcoran Irrigation District | 5-22.46 | | |
| Shallow Zone | | | - 3.4 |
| Deep Zone | | | +21.1 |
| Mendota-Huron Area | 5-22.47 | | |
| Deep Zone | | | + 6.6 |
| Poso Resources Conservation District | 5-22.48 | | + 1.2 |
| San Luis Canal Company | 5-22.49 | | + 4.9 |

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1973-- Spring 1974

| Ground Water Districts or Areas | | Number of Wells Considered in Analysis[a] | Change in Feet |
|---|---|---|---|
| Name | Number | | |
| San Joaquin Valley (Continued) | | | |
| Terra Bella Irrigation District | 5-22.50 | 2 | + 9.6 |
| Merced Bottoms | 5-22.54 | | + 1.6 |
| Centerville Bottoms Area | 5-22.64 | | + 2.5 |
| Garfield Water District | 5-22.65 | 11 | + 3.1 |
| Kings County Water District | 5-22.66 | | |
| Shallow Zone | | | + 5.2 |
| Deep Zone | | | +16.8 |
| Pleasant Valley Area | 5-22.69 | 20 | -11.7 |

a/ Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1974
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 1951-74 b/ in feet |
|---|---|---|---|---|
| Madera | 342.6 | Madera Irrigation District and Chowchilla Water District | - 24.1 c/ | -23.8 |
| Fresno | 404.0 | Fresno Irrigation District and City of Fresno | - 22.4 | -18.8 |
| Consolidated | 243.0 | Consolidated Irrigation District | - 19.0 | + 3.2 |
| Centerville Bottoms | 18.1 | ----- | + 1.0 | - 2.4 |
| Alta | 190.9 | Alta Irrigation District | - 17.2 c/ | + 7.8 |
| Ivanhoe | 17.4 | Ivanhoe Irrigation District | - 55.9 | +16.4 |
| Outside Ivanhoe | 76.6 | Stone Corral Irrigation District and a portion of Alta Irrigation District | - 28.5 | + 5.6 |
| Mill Creek | 128.2 | Portions of Kings County Water District and Kaweah Delta Water Conservation District | - 31.1 | -11.7 |
| Tulare | 121.1 | Tulare Irrigation District | - 59.1 | + 7.0 |
| Elk Bayou | 67.6 | Portion of Kaweah Delta Water Conservation District | - 47.8 | + 4.5 |
| Lindsay-Exeter | 136.4 | Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District | - 77.7 | +79.6 |
| Tule River | 156.6 | Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District | - 62.5 | +40.7 |
| Lower Deer Creek | 162.2 | Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District | -106.7 | -24.1 e/<br>-10.2 f/ |
| Middle Deer Creek | 54.3 | Terra Bella Irrigation District | - 61.8 | + 2.6 e/<br>-40.6 f/ |
| Delano-Earlimart | 140.0 | Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District | -133.8 | +30.7 e/<br>+23.8 g/ |
| 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 | -16.1 e/<br>-42.9 g/ |
| Rosedale | 78.9 | ----- | - 36.3 | -52.9<br>-21.7 g/ |
| Arvin-Edison | 205.2 | Arvin-Edison Water Storage District | - 69.9 d/ | -45.4 g/ |

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.
b/ Fall 1951 to spring 1974.
c/ Fall 1929 to fall 1951.
d/ Fall 1941 to fall 1951.
e/ Unconfined aquifer, spring 1961 to spring 1974; only one aquifer reported prior to 1961.
f/ Change shown for 1951 to 1971; insufficient data in pressure aquifer to compute changes for 1971-74.
g/ Pressure surface, spring 1961 to spring 1974; only one aquifer reported prior to 1961.

* These areas are shown on Plate 2.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 123.

Aquifer--Qualifications are based on the latest geologic knowledge of the aquifer system and construction of individual wells. The code symbols are as follows:

0 Unqualified due to lack of well construction and/or geology information.

1 Unconfined, perforated above the Corcoran Clay.

2 Confined, perforated below the Corcoran Clay.

3 Composite, perforated above and below the Corcoran Clay.

4 Unconfined, outside Corcoran Clay area.

5 Confined, aquitard other than Corcoran Clay.

6 Composite, perforated above and below aquitard outside Corcoran Clay area.

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

NO MEASUREMENT (NM)

| | | | |
|---|---|---|---|
| 0 | Measurement discontinued | 5 | Unable to locate well |
| 1 | Pumping | 6 | Well has been destroyed |
| 2 | Pump house locked | 7 | Special |
| 3 | Tape hung up | 8 | Casing leaking or wet |
| 4 | Can't get tape in casing | 9 | Temporarily inaccessible |

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

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.

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 | Agency Code | Agency |
|---|---|---|---|
| 5000 | U. S. Geological Survey | 5603 | Kaweah Delta Water Conservation District |
| 5001 | U. S. Bureau of Reclamation | 5604 | Tulare Irrigation District |
| 5050 | Department of Water Resources | 5607 | Lindmore Irrigation District |
| 5121 | Kern County Water Agency | 5608 | Porterville Irrigation District |
| 5129 | Kings County Water District | 5609 | Lower Tule Irrigation District |
| 5200 | City of Fresno | 5620 | James Irrigation District |
| 5520 | Oakdale Irrigation District | 5631 | Fresno Irrigation District |
| 5521 | Modesto Irrigation District | 5636 | Consolidated Irrigation District |
| 5524 | Turlock Irrigation District | 5637 | Alta Irrigation District |
| 5525 | Merced Irrigation District | 5640 | Buena Vista Water Storage District |
| 5527 | El Nido Irrigation District | 5644 | Arvin-Edison Water Storage District |
| 5528 | Chowchilla Water District | | |
| 5529 | Poso Resources Conservation District | | |

# TABLE C-3 (Cont.)
# GROUND WATER LEVELS AT WELLS

| STATE WELL NUMBER | AQUIFER | GROUND ELEVATION IN FEET | DATE | GROUND SURFACE TO WATER SURFACE IN FEET | WATER SURFACE ELEVATION IN FEET | AGENCY CODE |
|---|---|---|---|---|---|---|
| OAKDALE I.D. | | | | 5-22.06 | | |
| 01S/09E-16J01 M | | 119.0 | 3-00-74 | 65.0 | 54.0 | 5520 |
| 01S/09E-36A01 M | | 145.5 | 3-00-74 | 55.1 | 89.9 | 5520 |
| 01S/10E-19L01 M | | 146.5 | 3-00-74 | 57.4 | 89.1 | 5520 |
| 01S/10E-28J01 M | | 193.0 | 3-00-74 | 85.8 | 107.2 | 5520 |
| 02S/09E-26F01 M | | 132.0 | 3-00-74 | 52.3 | 79.7 | 5520 |
| 02S/10E-04H01 M | | 185.5 | 3-00-74 | 77.2 | 108.3 | 5520 |
| 02S/10E-33J01 M | | 165.0 | 3-00-74 | 59.0 | 106.0 | 5520 |
| 02S/11E-29B01 M | | 218.0 | 3-00-74 | 90.0 | 128.0 | 5520 |
| 02S/11E-31N01 M | | 192.0 | 3-00-74 | 73.3 | 118.7 | 5520 |
| 02S/12E-31K01 M | | 190.0 | 3-00-74 | 41.0 | 149.0 | 5520 |
| 03S/10E-15A01 M | | 152.0 | 3-00-74 | 45.2 | 106.8 | 5520 |
| 03S/11E-18D01 M | | 162.0 | 3-00-74 | 54.3 | 107.7 | 5520 |
| MODESTO I.D. | | | | 5-22.07 | | |
| 02S/08E-25P01 M | | 94.0 | 3-03-74 | 33.3 | 60.7 | 5521 |
| 02S/09E-30F01 M | | 93.0 | 10-16-73 | 26.0 | 67.0 | 5050 |
| | | | 4-10-74 | 27.5 | 65.5 | |
| 02S/09E-31G01 M | | 100.3 | 3-03-74 | 30.5 | 66.5 | 5521 |
| 03S/07E-12C01 M | | 47.0 | 10-16-73 | 8.2 | 38.8 | 5050 |
| | | | 4-10-74 | 9.0 | 38.0 | |
| 03S/07E-35A02 M | | 40.0 | 10-16-73 | 3.0 | 37.0 | 5050 |
| | | | 4-10-74 | 5.8 | 34.2 | |
| 03S/08E-03N01 M | | 65.0 | 3-00-74 | 19.4 | 45.6 | 5521 |
| 03S/08E-24C02 M | | 73.0 | 3-04-74 | 18.8 | 54.2 | 5521 |
| 03S/09E-08001 M | | 92.0 | 3-04-74 | 27.3 | 64.7 | 5521 |
| 03S/09E-11M01 M | | 99.0 | 3-04-74 | 20.7 | 78.3 | 5521 |
| 03S/09E-26F01 M | | 100.0 | 4-09-74 | NM-5 | | 5050 |
| 03S/10E-06G01 M | | 133.1 | 3-04-74 | 35.7 | 97.4 | 5521 |
| 03S/10E-29K01 M | | 118.0 | 3-04-74 | 46.9 | 71.1 | 5521 |
| 03S/10E-32G01 M | | 120.0 | 3-04-74 | 56.4 | 63.6 | 5521 |
| 03S/10E-34D01 M | | 125.0 | 4-11-74 | 59.0 | 66.0 | 5050 |
| 04S/08E-03F01 M | | 60.0 | 3-04-74 | 14.0 | 46.0 | 5521 |
| TURLOCK I.D. | | | | 5-22.08 | | |
| 04S/08E-22R01 M | 1 | 55.0 | 10-16-73 | 10.3 | 44.7 | 5050 |
| | | | 4-10-74 | 11.5 | 43.5 | |
| 04S/08E-27D01 M | | 55.0 | 3-00-74 | 10.5 | 44.5 | 5524 |
| 04S/09E-21N01 M | | 75.0 | 3-00-74 | 8.2 | 66.8 | 5524 |
| 04S/10E-21R01 M | 1 | 109.0 | 3-00-74 | 7.8 | 101.2 | 5524 |
| 04S/11E-29N01 M | 1 | 131.0 | 3-00-74 | DRY | | 5524 |
| 04S/11E-31R01 M | | 128.0 | 3-00-74 | 12.8 | 115.2 | 5524 |
| 05S/08E-01N01 M | | 53.0 | 3-00-74 | 4.4 | 48.6 | 5524 |
| 05S/08E-10A01 M | | 44.0 | 3-00-74 | 12.1 | 31.9 | 5524 |
| 05S/09E-04A01 M | | 70.0 | 10-16-73 | 5.6 | 65.4 | 5050 |
| | | | 4-10-74 | 7.5 | 62.5 | |
| 05S/09E-14R01 M | | 75.0 | 3-00-74 | 6.2 | 68.8 | 5524 |
| 05S/09E-24N01 M | | 75.0 | 3-00-74 | 7.4 | 67.6 | 5524 |
| 05S/09E-28A01 M | | 63.0 | 3-00-74 | 4.0 | 59.0 | 5524 |
| 05S/09E-34J01 M | | 64.0 | 10-16-73 | 8.0 | 56.0 | 5050 |
| | | | 4-10-74 | 10.4 | 53.6 | |
| 05S/10E-19R01 M | | 82.0 | 3-00-74 | 5.2 | 76.8 | 5524 |
| 05S/10E-21R01 M | | 92.0 | 3-00-74 | 10.1 | 81.9 | 5524 |
| 05S/11E-06J02 M | 1 | 124.0 | 10-15-73 | 8.4 | 115.6 | 5050 |
| | | | 4-08-74 | 6.5 | 117.5 | |
| 05S/11E-21N01 M | | 125.0 | 3-00-74 | 9.3 | 115.7 | 5524 |
| 05S/11E-30A01 M | | 117.0 | 3-00-74 | 11.4 | 105.6 | 5524 |
| 05S/11E-33N01 M | | 115.5 | 3-00-74 | 7.9 | 107.6 | 5524 |
| 06S/09E-15R01 M | | 60.0 | 3-00-74 | 3.6 | 56.4 | 5524 |

| STATE WELL NUMBER | AQUIFER | GROUND ELEVATION IN FEET | DATE | GROUND SURFACE TO WATER SURFACE IN FEET | WATER SURFACE ELEVATION IN FEET | AGENCY CODE |
|---|---|---|---|---|---|---|
| TURLOCK I.D. | | | | 5-22.08 | | |
| 06S/10E-21A01 M | | 85.6 | 3-00-74 | 3.5 | 82.1 | 5524 |
| 06S/10E-28D01 M | | 83.6 | 3-00-74 | 8.4 | 75.2 | 5524 |
| 06S/11E-06N01 M | | 106.2 | 3-00-74 | 9.5 | 96.7 | 5524 |
| 06S/11E-08R01 M | | 116.2 | 3-00-74 | 11.3 | 104.9 | 5524 |
| MERCED I.D. | | | | 5-22-09 | | |
| 06S/12E-22N01 M | 1 | 150.8 | 10-15-73 | 15.0 | 135.8 | 5050 |
| | | | 3-01-74 | 15.3 | 135.5 | |
| 06S/14E-32N01 M | 1 | 178.1 | 3-05-74 | 8.2 | 169.9 | 5525 |
| 07S/10E-01N01 M | 1 | 90.7 | 3-04-74 | 9.4 | 81.3 | 5525 |
| 07S/11E-01H01 M | | 118.0 | 10-15-73 | 13.1 | 104.9 | 5050 |
| | | | 3-19-74 | 14.0 | 104.0 | |
| 07S/11E-13N01 M | 1 | 106.6 | 3-01-74 | 7.4 | 99.2 | 5525 |
| 07S/12E-12D01 M | 1 | 144.0 | 10-15-73 | NM-5 | | 5050 |
| | | | 3-01-74 | 15.3 | 128.2 | |
| 07S/12E-12R01 M | 1 | 147.3 | 3-01-74 | DRY | | 5525 |
| 07S/13E-26001 M | 1 | 155.5 | 10-15-73 | 9.5 | 146.0 | 5050 |
| | | | 3-01-74 | 12.1 | 143.4 | |
| 07S/14E-11N01 M | 1 | 191.8 | 10-15-73 | 12.5 | 179.3 | 5050 |
| | | | 3-05-74 | 14.5 | 177.3 | |
| 07S/14E-16R01 M | 1 | 187.5 | 3-04-74 | 16.5 | 171.0 | 5525 |
| 08S/12E-01001 M | 1 | 120.1 | 3-01-74 | 8.4 | 111.7 | 5525 |
| 08S/13E-09R01 M | 1 | 135.0 | 3-01-74 | 4.8 | 130.2 | 5525 |
| 08S/14E-01A01 M | 1 | 197.5 | 3-01-74 | NM-7 | | 5525 |
| 08S/14E-10N01 M | 1 | 172.6 | 10-15-73 | 5.5 | 167.1 | 5050 |
| | | | 3-01-74 | 7.4 | 165.2 | |
| EL NIDO I.D. | | | | 5-22.10 | | |
| 09S/13E-14H01 M | | 133.0 | 11-02-73 | 86.8 | 46.2 | 5527 |
| | | | 2-06-74 | 92.3 | 40.7 | |
| 09S/14E-20B01 M | | 152.0 | 11-02-73 | 73.2 | 78.8 | 5527 |
| | | | 2-06-74 | 65.7 | 86.3 | |
| DELTA-MENDDTA AREA | | | | 5-22.11 | | |
| 04S/06E-04N01 M | 2 | 196.0 | 10-04-73 | 167.5 | 28.5 | 5050 |
| | | | 3-19-74 | 144.9 | 51.1 | |
| 04S/06E-09R01 M | 1 | 166.3 | 10-18-73 | 132.0 | 34.3 | 5001 |
| | | | 3-19-74 | 125.5 | 40.8 | |
| 04S/07E-27M01 M | 1 | 68.0 | 10-18-73 | 30.8 | 37.2 | 5001 |
| | | | 3-20-74 | 25.0 | 43.0 | |
| 05S/07E-14D01 M | 1 | 130.4 | 10-17-73 | 84.8 | 45.6 | 5001 |
| | | | 3-21-74 | 81.8 | 48.6 | |
| 05S/07E-23L01 M | | 138.0 | 10-17-73 | 82.5 | 55.5 | 5050 |
| | | | 3-21-74 | 82.3 | 55.7 | |
| 05S/08E-32K01 M | 1 | 90.9 | 10-17-73 | 7.3 | 83.6 | 5001 |
| | | | 3-22-74 | 8.8 | 82.1 | |
| 06S/07E-12P01 M | | 248.3 | 10-02-73 | 15.0 | 233.3 | 5050 |
| | | | 4-08-74 | 16.0 | 232.3 | |
| 06S/08E-21R02 M | 2 | 133.5 | 10-02-73 | 57.0 | 76.5 | 5050 |
| | | | 4-08-74 | NM-1 | | |
| 06S/08E-27J01 | 1 | 114.5 | 10-02-73 | 49.0 | 65.5 | 5050 |
| | | | 4-08-74 | 43.0 | 71.5 | |
| 06S/08E-29J01 M | 2 | 190.0 | 10-02-73 | 100.0 | 90.0 | 5050 |
| | | | 4-08-74 | 98.0 | 92.0 | |
| 07S/08E-22L01 M | 1 | 127.9 | 10-03-73 | NM-3 | | 5050 |
| | | | 4-08-74 | 46.0 | 84.6 | |
| 07S/09E-04R01 M | 1 | 65.5 | 10-03-73 | 15.0 | 50.5 | 5050 |
| | | | 4-09-74 | 11.0 | 54.5 | |
| 07S/09E-26N01 M | 1 | 68.4 | 10-03-73 | 9.0 | 59.4 | 5050 |
| | | | 4-11-74 | 3.0 | 65.4 | |
| 08S/08E-01N01 M | 1 | 123.2 | 10-03-73 | 19.0 | 104.2 | 5050 |
| | | | 4-10-74 | NM-7 | | |
| 08S/08E-15J01 M | 2 | 172.8 | 10-03-73 | 23.0 | 149.8 | 5050 |
| | | | 4-10-74 | 25.0 | 147.8 | |
| 08S/09E-26H01 M | 2 | 75.0 | 10-04-73 | 38.0 | 37.0 | 5050 |
| | | | 4-11-74 | 37.0 | 38.0 | |
| 08S/09E-26H03 M | 1 | 75.0 | 10-04-73 | 7.0 | 68.0 | 5050 |
| | | | 4-11-74 | 7.5 | 67.5 | |
| 08S/10E-21L04 M | | 75.0 | 4-11-74 | NM-7 | | 5050 |
| 09S/08E-24A01 M | 1 | 157.0 | 10-05-73 | 11.0 | 146.0 | 5050 |
| | | | 4-10-74 | 13.0 | 144.0 | |

# TABLE C-3 (Cont.)
# GROUND WATER LEVELS AT WELLS

| STATE WELL NUMBER | AQUIFER | GROUND ELEVATION IN FEET | DATE | GROUND SURFACE TO WATER SURFACE IN FEET | WATER SURFACE ELEVATION IN FEET | AGENCY CODE |
|---|---|---|---|---|---|---|
| DELTA-MENDOTA | | | | 5-22.11 | | |
| 09S/09E-14N01 M | | 96.0 | 10-04-73 | 56.0 | 40.0 | 5050 |
| | | | 4-11-74 | NM-9 | | |
| 09S/09E-18N01 M | 2 | 153.6 | 10-05-73 | 24.0 | 129.6 | 5050 |
| | | | 4-11-74 | 31.0 | 122.6 | |
| 09S/09E-23L01 M | 2 | 100.0 | 10-04-73 | 67.0 | 33.0 | 5050 |
| | | | 4-10-74 | 48.0 | 52.0 | |
| 09S/10E-19B01 M | 3 | 84.0 | 10-05-73 | 1.0 | 83.0 | 5050 |
| | | | 4-10-74 | 1.0 | 83.0 | |
| 09S/10E-23J01 M | 2 | 87.0 | 10-05-73 | NM-7 | | 5050 |
| | | | 4-10-74 | 36.0 | 51.0 | |
| 09S/11E-16H01 M | 3 | 91.0 | 10-04-73 | NM-4 | | 5050 |
| | | | 4-10-74 | NM-0 | | |
| 09S/11E-20J01 M | 2 | 90.5 | 10-04-73 | 45.0 | 45.5 | 5050 |
| | | | 4-10-74 | NM-0 | | |
| 10S/10E-02R01 M | 1 | 99.5 | 10-03-73 | 20.0 | 79.5 | 5050 |
| | | | 4-10-74 | 12.0 | 87.5 | |
| 10S/10E-31G01 M | 2 | 191.1 | 10-03-73 | 157.0 | 34.1 | 5050 |
| | | | 4-12-74 | 159.0 | 32.1 | |
| 10S/10E-32N01 M | 1 | 189.5 | 10-03-73 | 76.0 | 113.5 | 5050 |
| | | | 4-12-74 | 75.0 | 114.5 | |
| 10S/11E-27E02 M | 2 | 101.3 | 10-02-73 | 60.0 | 41.3 | 5050 |
| | | | 4-08-74 | 55.0 | 46.3 | |
| 11S/10E-11J01 M | 1 | 157.3 | 10-02-73 | 20.0 | 137.3 | 5050 |
| | | | 4-08-74 | 20.0 | 137.3 | |
| 11S/10E-22Q01 M | | 246.8 | 10-03-73 | 100.0 | 146.8 | 5050 |
| | | | 4-09-74 | 97.0 | 149.8 | |
| 11S/11E-02J02 M | 1 | 106.0 | 10-02-73 | 3.0 | 103.0 | 5050 |
| | | | 4-08-74 | 2.0 | 104.0 | |
| 11S/11E-22Q03 M | 3 | 114.0 | 10-02-73 | 10.0 | 104.0 | 5050 |
| | | | 4-08-74 | 12.0 | 102.0 | |
| 11S/12E-31C01 M | 2 | 132.0 | 10-02-73 | NM-5 | | 5050 |
| 12S/12E-06D01 M | | 144.0 | 10-02-73 | 6.5 | 137.5 | 5001 |
| | | | 3-14-74 | 5.6 | 138.4 | |
| 12S/12E-25J01 M | | 181.0 | 10-03-73 | 7.2 | 173.9 | 5001 |
| | | | 3-15-74 | 3.9 | 177.2 | |
| 12S/13E-10N01 M | | 144.0 | 2-06-74 | NM-0 | | 5050 |
| CHOWCHILLA W.D. | | | | 5-22.12 | | |
| 09S/14E-25R01 M | 1 | 185.0 | 10-12-73 | 71.0 | 114.0 | 5001 |
| | | | 2-06-74 | 68.4 | 116.6 | |
| 09S/15E-25J02 M | 1 | 230.0 | 10-12-73 | 39.4 | 190.6 | 5001 |
| | | | 2-06-74 | 44.0 | 186.0 | |
| 09S/15E-27A01 M | | 216.5 | 10-15-73 | 136.0 | 80.5 | 5001 |
| | | | 3-21-74 | 110.0 | 106.5 | |
| 09S/16E-22R01 M | | 267.0 | 10-15-73 | 45.0 | 222.0 | 5001 |
| | | | 2-05-74 | 46.6 | 220.4 | |
| 09S/17E-19L01 M | 1 | 292.0 | 10-15-73 | 111.5 | 180.5 | 5528 |
| | | | 2-05-74 | 92.3 | 199.7 | |
| 09S/17E-35J01 M | | 320.0 | 10-10-73 | NM-0 | | 5001 |
| 09S/18E-33Q01 M | 4 | 362.0 | 10-10-73 | 54.5 | 307.5 | 5001 |
| | | | 2-11-74 | 54.6 | 307.4 | |
| 10S/14E-01A01 M | | 179.0 | 10-11-73 | 78.0 | 101.0 | 5001 |
| | | | 2-07-74 | 76.7 | 102.3 | |
| 10S/14E-01R02 M | | 177.0 | 10-11-73 | 76.8 | 100.2 | 5528 |
| | | | 2-07-74 | 76.0 | 101.0 | |
| 10S/14E-24R01 M | | 167.0 | 10-10-73 | 91.5 | 75.5 | 5001 |
| | | | 2-11-74 | 81.5 | 85.5 | |
| 10S/15E-02Q01 M | | 212.5 | 10-11-73 | 116.2 | 96.3 | 5001 |
| | | | 2-08-74 | 94.0 | 118.5 | |
| 10S/15E-23K01 M | | 195.5 | 10-10-73 | 85.9 | 109.6 | 5001 |
| | | | 2-08-74 | 73.5 | 122.0 | |
| 10S/15E-27D03 M | | 184.0 | 10-10-73 | 93.0 | 91.0 | 5001 |
| | | | 2-11-74 | 74.0 | 110.0 | |
| 10S/16E-09E01 M | | 232.0 | 10-16-73 | 100.1 | 131.9 | 5001 |
| | | | 2-04-74 | 96.1 | 135.9 | |
| 10S/16E-29R01 M | 1 | 208.0 | 10-09-73 | 92.0 | 116.0 | 5001 |
| | | | 2-04-74 | 90.5 | 117.5 | |
| MADERA I.D. | | | | 5-22.13 | | |
| 10S/19E-16D01 M | 4 | 387.0 | 10-09-73 | 18.4 | 371.6 | 5001 |
| | | | 2-12-74 | 19.0 | 371.0 | |
| 11S/16E-06A01 M | | 196.0 | 10-12-73 | 78.1 | 117.9 | 5001 |
| | | | 2-08-74 | 67.8 | 128.2 | |
| MADERA I.D. | | | | 5-22.13 | | |
| 11S/16E-10N01 M | | 204.0 | 10-12-73 | 73.7 | 130.3 | 5001 |
| | | | 2-08-74 | 69.8 | 134.2 | |
| 11S/17E-27C01 M | 1 | 250.0 | 10-11-73 | 74.9 | 175.1 | 5001 |
| | | | 2-07-74 | 73.3 | 176.7 | |
| 11S/18E-20N01 M | 1 | 272.5 | 10-04-73 | 86.1 | 186.4 | 5001 |
| | | | 2-04-74 | 69.6 | 202.9 | |
| 11S/18E-27M01 M | 1 | 284.0 | 10-04-73 | 83.1 | 200.9 | 5001 |
| | | | 2-04-74 | 80.8 | 203.2 | |
| 12S/16E-23A01 M | | 205.0 | 10-10-73 | 94.3 | 110.7 | 5001 |
| | | | 2-05-74 | 78.5 | 126.5 | |
| 12S/17E-08G01 M | | 230.0 | 10-10-73 | 89.4 | 140.6 | 5001 |
| | | | 2-07-74 | 81.8 | 148.2 | |
| 12S/17E-21H01 M | 1 | 228.0 | 10-10-73 | 72.5 | 155.5 | 5001 |
| | | | 2-07-74 | 67.6 | 160.4 | |
| 12S/17E-26C01 M | | 233.0 | 10-10-73 | 63.3 | 169.7 | 5001 |
| | | | 2-07-74 | 58.7 | 174.3 | |
| 12S/17E-34R01 M | | 234.0 | 10-10-73 | 53.4 | 180.6 | 5001 |
| | | | 2-07-74 | 50.4 | 183.6 | |
| 12S/18E-13R01 M | | 288.0 | 10-05-73 | 83.0 | 205.0 | 5001 |
| | | | 2-05-74 | 79.9 | 208.1 | |
| 12S/18E-21G01 M | 1 | 265.0 | 10-09-73 | 76.9 | 188.1 | 5001 |
| | | | 2-06-74 | 70.6 | 194.4 | |
| 12S/18E-21H01 M | | 267.0 | 10-09-73 | 74.0 | 193.0 | 5001 |
| | | | 2-06-74 | 69.2 | 197.8 | |
| 12S/19E-28A01 M | 4 | 307.5 | 10-01-73 | 91.0 | 216.5 | 5001 |
| | | | 2-05-74 | 88.1 | 219.4 | |
| WEST CHOWCHILLA-MADERA AREA | | | | 5-22.14 | | |
| 10S/13E-22R01 M | | 119.0 | 10-12-73 | 27.7 | 91.3 | 5001 |
| | | | 2-04-74 | 25.8 | 93.2 | |
| 10S/14E-08B03 M | | 147.0 | 10-12-73 | 97.8 | 49.2 | 5001 |
| | | | 2-08-74 | 86.8 | 60.2 | |
| 10S/14E-31H01 M | | 130.0 | 10-12-73 | 48.2 | 81.8 | 5001 |
| | | | 2-07-74 | 41.0 | 89.0 | |
| 10S/14E-35F01 M | | 151.0 | 10-12-73 | 91.9 | 59.1 | 5001 |
| | | | 2-04-74 | 79.9 | 71.1 | |
| 11S/14E-13R01 M | | 150.0 | 10-16-73 | 70.2 | 79.8 | 5001 |
| | | | 2-04-74 | 54.3 | 95.7 | |
| 11S/15E-33E01 M | | 156.0 | 10-16-73 | 69.0 | 87.0 | 5001 |
| | | | 2-07-74 | 54.3 | 101.7 | |
| 11S/15E-33P01 M | | 158.0 | 10-16-73 | 67.0 | 91.0 | 5001 |
| | | | 2-07-74 | 50.9 | 107.1 | |
| 12S/15E-14L01 M | 1 | 165.1 | 10-15-73 | 86.0 | 81.0 | 5001 |
| | | | 2-08-74 | 62.9 | 104.1 | |
| 13S/16E-02C01 M | | 194.0 | 10-09-73 | 87.8 | 106.2 | 5001 |
| | | | 2-05-74 | 69.7 | 124.3 | |
| FRESNO I.D. | | | | 5-22.15 | | |
| 12S/20E-14A01 M | 4 | 365.0 | 10-12-73 | 94.5 | 270.5 | 5001 |
| | | | 2-06-74 | 88.9 | 276.1 | |
| 12S/21E-34D01 M | 4 | 387.7 | 3-04-74 | 43.4 | 344.3 | 5631 |
| 12S/22E-21E01 M | 4 | 473.0 | 10-10-73 | NM-9 | | 5001 |
| | | | 2-11-74 | NM-9 | | |
| 13S/17E-22B01 M | 4 | 220.8 | 3-04-74 | 39.6 | 181.2 | 5631 |
| 13S/17E-33D01 M | | 211.0 | 10-19-73 | 57.2 | 153.8 | 5001 |
| | | | 2-04-74 | 53.8 | 157.2 | |
| 13S/18E-10P01 M | | 258.0 | 10-17-73 | 48.0 | 210.0 | 5001 |
| | | | 2-05-74 | 48.4 | 209.6 | |
| 13S/18E-34D01 M | | 245.0 | 10-19-73 | 54.1 | 190.9 | 5001 |
| | | | 2-05-74 | 54.3 | 190.7 | |
| 13S/19E-09Q01 M | 4 | 288.2 | 3-01-74 | 69.6 | 218.6 | 5001 |
| 13S/19E-16K01 M | | 290.0 | 10-12-73 | 97.5 | 192.5 | 5001 |
| | | | 2-05-74 | 74.0 | 216.0 | |
| 13S/20E-02L01 M | | 339.0 | 3-01-74 | NM-0 | | 5631 |
| 13S/23E-31P01 M | 4 | 406.5 | 3-04-74 | 31.5 | 375.0 | 5631 |
| 14S/18E-08J01 M | 4 | 227.4 | 3-04-74 | 70.0 | 157.4 | 5631 |
| 14S/19E-20B02 M | 4 | 245.0 | 3-04-74 | 45.7 | 199.3 | 5631 |
| 14S/20E-06J01 M | 1 | 279.4 | 3-04-74 | 63.2 | 216.2 | 5631 |

TABLE C-3 (Cont.)

# GROUND WATER LEVELS AT WELLS

| STATE WELL NUMBER | AQUIFER | GROUND ELEVATION IN FEET | DATE | GROUND SURFACE TO WATER SURFACE IN FEET | WATER SURFACE ELEVATION IN FEET | AGENCY CODE |
|---|---|---|---|---|---|---|
| FRESNO I.D. | | | | 5-22.15 | | |
| 15S/20E-13E02 M | | 282.5 | 3-05-74 | 34.1 | 248.4 | 5631 |
| CITY OF FRESNO | | | | 5-22.16 | | |
| 13S/20E-21J01 M | | 310.0 | 4-01-74 | 94.5 | 215.5 | 5200 |
| 13S/20E-23B01 M | | 325.0 | 4-01-74 | 91.0 | 234.0 | 5200 |
| 13S/20E-28E01 M | | 299.3 | 10-03-73 | 84.4 | 201.9 | 5200 |
| | | | 4-01-74 | 88.0 | 211.3 | |
| 13S/20E-35M02 M | | 305.3 | 4-01-74 | 89.0 | 216.3 | 5200 |
| 14S/20E-10M01 M | | 291.4 | 10-03-73 | 73.4 | 218.0 | 5200 |
| | | | 4-01-74 | 74.5 | 216.9 | |
| FRESNO SLOUGH AREA | | | | 5-22.17 | | |
| 14S/15E-25M02 M | | 160.0 | 10-02-73 | 31.9 | 128.1 | 5001 |
| | | | 2-07-74 | 19.2 | 140.8 | |
| 14S/16E-03C01 M | | 177.0 | 10-03-73 | 73.3 | 103.7 | 5001 |
| | | | 2-07-74 | 69.5 | 107.5 | |
| 14S/16E-08001 M | | 165.0 | 10-03-73 | NM-1 | | 5001 |
| | | | 2-07-74 | 36.6 | 128.4 | |
| 14S/16E-22N01 M | 1 | 164.0 | 10-02-73 | 32.6 | 131.4 | 5001 |
| | | | 2-07-74 | 27.7 | 136.3 | |
| 14S/17E-25A01 M | 1 | 210.0 | 10-04-73 | 127.7 | 82.3 | 5001 |
| | | | 2-01-74 | 115.7 | 94.3 | |
| 15S/16E-12C03 M | | 169.5 | 10-09-73 | 42.5 | 127.0 | 5620 |
| | | | 2-01-74 | 41.7 | 127.8 | |
| 15S/17E-22R01 M | 1 | 185.0 | 10-05-73 | 92.3 | 92.7 | 5001 |
| | | | 2-06-74 | 89.4 | 95.6 | |
| 15S/18E-07A02 M | | 204.0 | 10-04-73 | NM-5 | | 5001 |
| | | | 2-01-74 | NM-5 | | |
| 16S/18E-03J01 M | | 206.0 | 10-17-73 | 143.0 | 63.0 | 5050 |
| | | | 3-07-74 | 150.0 | 56.0 | |
| 16S/18E-33P01 M | | 195.0 | 3-07-74 | 147.0 | 48.0 | 5050 |
| 16S/19E-34P01 M | | 220.0 | 10-17-73 | 119.0 | 101.0 | 5050 |
| | | | 3-07-74 | 110.0 | 110.0 | |
| 17S/17E-12K01 M | 1 | 199.0 | 10-17-73 | 160.0 | 39.0 | 5050 |
| | | | 2-05-74 | 172.0 | 27.0 | |
| 17S/18E-23A02 M | 1 | 200.0 | 10-17-73 | 76.5 | 123.5 | 5050 |
| | | | 3-07-74 | 101.0 | 99.0 | |
| CONSOLIDATED I.D. | | | | 5-22.18 | | |
| 14S/22E-22N01 M | 4 | 355.7 | 11-01-73 | 29.4 | 326.3 | 5636 |
| | | | 3-00-74 | 29.0 | 326.7 | |
| 15S/19E-24N01 M | 4 | 246.6 | 11-01-73 | 83.0 | 162.7 | 5636 |
| | | | 3-00-74 | 77.6 | 167.4 | |
| 15S/20E-28A01 M | | 264.0 | 3-00-74 | 48.8 | 215.2 | 5636 |
| 15S/21E-15D01 M | 4 | 301.2 | 11-01-73 | 28.2 | 273.0 | 5636 |
| | | | 3-00-74 | 25.9 | 275.3 | |
| 15S/22E-16A01 M | 4 | 337.0 | 11-01-73 | 27.0 | 310.0 | 5636 |
| | | | 3-00-74 | 27.3 | 309.7 | |
| 15S/22E-29D01 M | 4 | 321.9 | 11-01-73 | 28.7 | 293.2 | 5636 |
| | | | 3-00-74 | 27.7 | 294.2 | |
| 16S/19E-14A01 M | 4 | 235.0 | 11-01-73 | 103.6 | 131.4 | 5636 |
| | | | 3-00-74 | 98.8 | 136.2 | |
| 16S/20E-22N01 M | 4 | 248.0 | 11-01-73 | 62.8 | 185.2 | 5636 |
| | | | 3-00-74 | 60.3 | 187.7 | |
| 16S/21E-22N01 M | 4 | 271.0 | 11-01-73 | 45.4 | 225.6 | 5636 |
| | | | 3-00-74 | 43.1 | 227.9 | |
| 16S/22E-23R01 M | 4 | 297.0 | 11-01-73 | 23.2 | 273.8 | 5636 |
| | | | 3-00-74 | 22.4 | 274.6 | |
| 17S/22E-03C01 M | 4 | 286.0 | 11-01-73 | 19.0 | 267.0 | 5636 |
| | | | 3-00-74 | 19.8 | 266.2 | |
| ALTA I.D. | | | | 5-22.19 | | |
| 14S/23E-36R01 M | 4 | 391.0 | 10-31-73 | 46.4 | 344.6 | 5637 |
| | | | 3-01-74 | 51.1 | 339.9 | |
| 14S/24E-31P01 M | 4 | 395.0 | 10-31-73 | 43.0 | 352.0 | 5001 |
| | | | 3-01-74 | 44.0 | 351.0 | |
| 15S/23E-23A02 M | 4 | 358.0 | 10-31-73 | 45.2 | 312.8 | 5637 |
| | | | 3-01-74 | 43.3 | 314.7 | |
| 15S/24E-22D01 M | 4 | 388.0 | 11-01-73 | 28.8 | 359.2 | 5637 |
| | | | 3-02-74 | 24.3 | 363.7 | |
| 16S/23E-23E01 M | 4 | 314.0 | 11-01-73 | 24.7 | 289.3 | 5637 |
| | | | 3-04-74 | 24.0 | 290.0 | |
| 16S/24E-21J01 M | 1 | 336.0 | 11-02-73 | 31.0 | 305.0 | 5637 |
| | | | 3-02-74 | 29.7 | 306.3 | |
| ALTA I.D. | | | | 5-22.19 | | |
| 16S/25E-29A01 M | 4 | 364.0 | 11-03-73 | 35.5 | 328.5 | 5637 |
| | | | 3-04-74 | 29.5 | 334.5 | |
| 17S/22E-25A01 M | 4 | 275.0 | 11-01-73 | 48.8 | 226.2 | 5637 |
| | | | 3-03-74 | 39.2 | 235.8 | |
| 17S/22E-25J01 M | 4 | 275.0 | 11-01-73 | 47.8 | 227.2 | 5637 |
| | | | 3-03-74 | 37.0 | 238.0 | |
| 17S/24E-15A03 M | | 302.0 | 10-04-73 | 28.9 | 273.1 | 5001 |
| | | | 1-30-74 | 23.3 | 278.7 | |
| 17S/25E-10C01 M | 4 | 335.0 | 11-03-73 | 34.8 | 300.2 | 5637 |
| | | | 3-01-74 | 32.7 | 302.3 | |
| 17S/25E-18R01 M | 4 | 321.0 | 11-02-73 | 53.7 | 267.3 | 5637 |
| | | | 3-01-74 | 50.7 | 270.3 | |
| LOWER KINGS RIVER AREA | | | | 5-22.20 | | |
| 17S/19E-14J01 M | | 217.0 | 10-17-73 | 84.0 | 133.0 | 5050 |
| | | | 3-11-74 | 98.0 | 119.0 | |
| 17S/20E-20D01 M | 1 | 223.0 | 10-17-73 | NM-7 | | 5050 |
| | | | 3-11-74 | 80.0 | 143.0 | |
| 17S/21E-11K01 M | | 257.0 | 10-17-73 | 40.0 | 217.0 | 5050 |
| | | | 3-12-74 | 32.0 | 225.0 | |
| 18S/19E-35J02 M | 3 | 211.0 | 10-17-73 | 154.0 | 57.0 | 5050 |
| | | | 3-14-74 | 120.0 | 91.0 | |
| 18S/20E-16A01 M | 1 | 230.0 | 10-17-73 | NM-4 | | 5050 |
| | | | 3-15-74 | NM-1 | | |
| 18S/21E-10R01 M | | 254.0 | 10-17-73 | 68.0 | 186.0 | 5050 |
| | | | 1-30-74 | 61.9 | 192.1 | |
| 19S/19E-25A01 M | 1 | 208.0 | 10-17-73 | 4.5 | 203.5 | 5050 |
| | | | 3-12-74 | 1.6 | 206.4 | |
| ORANGE COVE I.D. | | | | 5-22.21 | | |
| 14S/24E-29C02 M | 4 | 430.5 | 10-04-73 | NM-1 | | 5001 |
| | | | 2-04-74 | 40.5 | 390.0 | |
| 14S/25E-30D01 M | 1 | 510.0 | 10-01-73 | 24.0 | 486.0 | 5001 |
| | | | 1-28-74 | 23.5 | 486.5 | |
| 15S/24E-14K01 M | 4 | 415.0 | 10-04-73 | 29.3 | 385.7 | 5001 |
| | | | 2-04-74 | 26.0 | 389.0 | |
| 16S/25E-04C02 M | 4 | 415.0 | 10-05-73 | 13.0 | 402.0 | 5001 |
| | | | 2-04-74 | 13.1 | 401.9 | |
| STONE CORRAL I.D. | | | | 5-22.22 | | |
| 17S/25E-01D01 M | 1 | 355.0 | 11-03-73 | NM-1 | | 5637 |
| | | | 3-01-74 | NM-1 | | |
| 17S/26E-07R01 M | | 364.0 | 2-05-74 | 11.2 | 352.8 | 5001 |
| IVANHOE I.O. | | | | 5-22.23 | | |
| 17S/25E-27R01 M | 4 | 350.0 | 10-02-73 | 80.6 | 269.4 | 5001 |
| | | | 2-04-74 | 76.4 | 273.6 | |
| 17S/25E-35M01 M | 4 | 349.0 | 10-02-73 | 73.3 | 275.7 | 5001 |
| | | | 2-04-74 | 62.5 | 286.5 | |
| 17S/25E-36G01 M | 4 | 365.0 | 10-02-73 | 65.2 | 299.8 | 5001 |
| | | | 2-04-74 | 60.0 | 305.0 | |
| 17S/26E-32N01 M | 4 | 385.0 | 10-02-73 | 63.0 | 322.0 | 5001 |
| | | | 2-04-74 | 59.0 | 326.0 | |
| 17S/26E-34D01 M | 4 | 416.0 | 10-02-73 | 63.5 | 352.5 | 5001 |
| | | | 2-04-74 | 58.0 | 358.0 | |
| KAWEAM DELTA W.C.O. | | | | 5-22.24 | | |
| 17S/25E-15P01 M | 1 | 340.0 | 10-04-73 | 86.2 | 253.8 | 5001 |
| | | | 1-31-74 | 74.8 | 265.2 | |
| 17S/26E-17P02 M | 1 | 385.0 | 10-04-73 | 18.2 | 366.8 | 5001 |
| | | | 1-31-74 | 21.7 | 363.3 | |
| 17S/27E-34P01 M | 1 | 470.0 | 10-05-73 | NM-1 | | 5001 |
| | | | 1-31-74 | 11.5 | 458.5 | |
| 18S/22E-29A01 M | | 251.0 | 9-28-73 | 93.7 | 157.3 | 5001 |
| | | | 1-30-74 | NM-6 | | |
| 18S/23E-12M01 M | | 282.5 | 10-01-73 | 64.4 | 218.1 | 5001 |
| | | | 1-30-74 | 49.5 | 233.0 | |
| 18S/23E-34A01 M | | 271.0 | 10-02-73 | 109.1 | 161.9 | 5001 |
| | | | 1-31-74 | 91.8 | 179.2 | |
| 18S/24E-26A01 M | 4 | 312.0 | 10-01-73 | 50.0 | 262.0 | 5001 |
| | | | 2-07-74 | 54.0 | 258.0 | |
| 18S/25E-12Q01 M | 4 | 363.0 | 10-03-73 | 62.0 | 301.0 | 5001 |
| | | | 2-01-74 | 53.5 | 309.5 | |

# TABLE C-3 (Cont.)
# GROUND WATER LEVELS AT WELLS

| STATE WELL NUMBER | AQUIFER | GROUND ELEVATION IN FEET | DATE | GROUND SURFACE TO WATER SURFACE IN FEET | WATER SURFACE ELEVATION IN FEET | AGENCY CODE |
|---|---|---|---|---|---|---|
| KAWEAH DELTA W.C.D. | | | | 5-22.24 | | |
| 18S/25E-33F01 M | 4 | 338.0 | 10-10-73 | 38.0 | 300.0 | 5001 |
| | | | 1-28-74 | 28.0 | 310.0 | |
| 18S/26E-27E01 M | 4 | 390.0 | 10-03-73 | NM-1 | | 5001 |
| | | | 2-01-74 | 23.0 | 367.0 | |
| 18S/26E-30N01 M | | 367.0 | 10-03-73 | 17.3 | 349.7 | 5001 |
| | | | 2-01-74 | 20.5 | 346.5 | |
| 19S/22E-01N02 M | 1 | 245.0 | 10-05-73 | 67.5 | 177.5 | 5001 |
| | | | 2-07-74 | 73.5 | 171.5 | |
| 19S/22E-36E01 M | 1 | 234.3 | 9-28-73 | 75.5 | 158.8 | 5001 |
| | | | 1-28-74 | 75.0 | 159.3 | |
| 19S/25E-07K01 M | | 320.0 | 10-02-73 | 74.8 | 243.2 | 5001 |
| | | | 1-31-74 | 57.0 | 261.0 | |
| 19S/26E-34R02 M | 1 | 341.0 | 9-28-73 | 81.0 | 260.0 | 5001 |
| | | | 1-30-74 | 57.2 | 283.8 | |
| 20S/22E-10C01 M | 1 | 226.0 | 2-05-74 | 85.0 | 142.0 | 5001 |
| TULARE I.D. | | | | 5-22.25 | | |
| 19S/23E-14R01 M | 1 | 270.0 | 10-02-73 | NM-1 | | 5001 |
| | | | 1-23-74 | 79.0 | 191.0 | |
| 19S/23E-32H01 M | 1 | 250.5 | 10-02-73 | 88.0 | 162.5 | 5001 |
| | | | 1-23-74 | 75.7 | 174.8 | |
| 19S/24E-16P01 M | | 290.0 | 10-02-73 | 88.0 | 202.0 | 5001 |
| | | | 1-23-74 | 75.0 | 215.0 | |
| 19S/24E-27Q01 M | 1 | 290.0 | 10-02-73 | 87.0 | 203.0 | 5001 |
| | | | 1-23-74 | 66.5 | 223.5 | |
| 19S/25E-17A02 M | 4 | 328.0 | 10-01-73 | NM-1 | | 5001 |
| | | | 1-23-74 | 45.0 | 283.0 | |
| 20S/23E-08B02 M | 1 | 241.0 | 10-02-73 | NM-5 | | 5604 |
| | | | 1-24-74 | NM-5 | | |
| 20S/24E-16H01 M | | 273.0 | 10-03-73 | 100.3 | 172.7 | 5001 |
| | | | 1-25-74 | 79.0 | 194.0 | |
| 20S/24E-30J02 M | 1 | 250.0 | 10-03-73 | 97.7 | 152.3 | 5001 |
| | | | 1-25-74 | 85.5 | 164.5 | |
| 21S/23E-05R01 M | 1 | 222.0 | 10-02-73 | 73.9 | 148.1 | 5001 |
| | | | 1-24-74 | 67.5 | 154.5 | |
| EXETER I.D. | | | | 5-22.26 | | |
| 18S/26E-25K01 M | 4 | 436.0 | 10-01-73 | 52.5 | 383.5 | 5001 |
| | | | 2-06-74 | 46.0 | 390.0 | |
| 18S/26E-34P02 M | 4 | 391.0 | 10-01-73 | 47.0 | 344.0 | 5001 |
| | | | 2-06-74 | 41.0 | 350.0 | |
| 18S/27E-29D01 M | 4 | 447.0 | 10-01-73 | 25.1 | 421.9 | 5001 |
| | | | 2-06-74 | 20.0 | 427.0 | |
| 19S/26E-14E01 M | 4 | 375.0 | 10-02-73 | 68.3 | 306.7 | 5001 |
| | | | 2-06-74 | 60.0 | 315.0 | |
| 19S/26E-23E01 M | 4 | 359.0 | 10-02-73 | 68.7 | 290.3 | 5001 |
| | | | 2-06-74 | NM-9 | | |
| LINDSAY-STRATHMORE I.D. | | | | 5-22.27 | | |
| 19S/27E-29D01 M | 4 | 385.0 | 10-01-73 | 44.5 | 340.5 | 5001 |
| | | | 2-04-74 | 44.1 | 340.9 | |
| 20S/27E-06B01 M | 4 | 372.0 | 10-01-73 | 39.8 | 332.2 | 5001 |
| | | | 2-04-74 | 41.2 | 330.8 | |
| 20S/27E-16A01 M | 4 | 426.0 | 10-01-73 | 21.8 | 404.2 | 5001 |
| | | | 2-04-74 | 21.0 | 405.0 | |
| 20S/27E-21F01 M | 4 | 414.0 | 10-02-73 | 25.4 | 388.6 | 5001 |
| | | | 2-04-74 | 24.4 | 389.6 | |
| 20S/27E-29J01 M | 4 | 406.0 | 10-02-73 | 22.4 | 383.6 | 5001 |
| | | | 2-04-74 | 20.2 | 385.8 | |
| LINDMORE I.D. | | | | 5-22.28 | | |
| 20S/26E-01P01 M | 4 | 360.0 | 10-01-73 | 48.3 | 311.7 | 5001 |
| | | | 2-04-74 | 57.2 | 302.8 | |
| 20S/26E-22C02 M | 4 | 341.0 | 10-02-73 | 70.8 | 270.2 | 5001 |
| | | | 2-05-74 | 78.9 | 262.1 | |
| 20S/26E-24K01 M | | 362.5 | 10-02-73 | 43.6 | 318.9 | 5001 |
| | | | 2-05-74 | 42.0 | 320.5 | |
| 20S/26E-32A01 M | 4 | 331.5 | 10-03-73 | 79.6 | 251.9 | 5607 |
| | | | 10-09-73 | 75.4 | 256.1 | 5609 |
| | | | 2-05-74 | 76.1 | 255.4 | 5607 |
| | | | 2-14-74 | 75.2 | 256.3 | 5609 |
| 20S/27E-29E01 M | 4 | 392.0 | 10-04-73 | NM-1 | | 5001 |
| | | | 2-06-74 | 19.3 | 372.7 | |
| PORTERVILLE I.D. | | | | 5-22.29 | | |
| 21S/26E-12A01 M | 4 | 372.0 | 10-04-73 | 33.8 | 338.2 | 5608 |
| PORTERVILLE I.D. | | | | 5-22.29 | | |
| 21S/26E-12A01 M | 4 | 372.0 | 2-06-74 | 29.4 | 342.6 | 5608 |
| 21S/27E-21C01 M | | 409.0 | 10-04-73 | 19.0 | 390.0 | 5001 |
| | | | 2-06-74 | 17.2 | 391.8 | |
| 21S/27E-28E01 M | 4 | 420.0 | 10-04-73 | NM-1 | | 5001 |
| | | | 2-06-74 | NM-1 | | |
| 22S/26E-01J01 M | 4 | 395.0 | 10-04-73 | 76.0 | 319.0 | 5608 |
| | | | 2-05-74 | 75.5 | 319.5 | |
| 22S/27E-06D01 M | 4 | 397.0 | 2-05-74 | NM-0 | | 5608 |
| 22S/27E-10A01 M | 4 | 455.0 | 10-02-73 | 71.9 | 383.1 | 5608 |
| | | | 2-05-74 | NM-3 | | |
| 22S/27E-10R01 M | 4 | 467.0 | 2-05-74 | NM-0 | | 5001 |
| LOWER TULE RIVER I.D. | | | | 5-22.30 | | |
| 21S/23E-22J01 M | 1 | 222.5 | 10-09-73 | 70.0 | 152.5 | 5001 |
| | | | 2-11-74 | 61.0 | 161.5 | |
| 21S/24E-15H01 M | 1 | 253.0 | 10-11-73 | 45.7 | 207.3 | 5001 |
| | | | 2-13-74 | 44.8 | 208.2 | |
| 21S/24E-31D01 M | | 230.0 | 10-01-73 | 66.9 | 163.1 | 5001 |
| | | | 2-14-74 | 68.2 | 161.8 | |
| 21S/24E-35M01 M | | 251.0 | 10-01-73 | 83.9 | 167.1 | 5001 |
| | | | 2-14-74 | 77.0 | 174.0 | |
| 21S/25E-08H01 M | | 285.0 | 10-11-73 | 98.6 | 187.4 | 5001 |
| | | | 2-06-74 | 56.9 | 229.1 | |
| 21S/26E-06G02 M | | 322.0 | 10-09-73 | 67.2 | 254.8 | 5001 |
| | | | 2-07-74 | 56.8 | 265.2 | |
| 21S/26E-10E01 M | | 350.0 | 10-05-73 | 46.0 | 304.0 | 5001 |
| | | | 2-08-74 | 40.9 | 309.1 | |
| 22S/24E-09A01 M | | 245.0 | 10-03-73 | 125.9 | 119.1 | 5001 |
| | | | 2-12-74 | 122.1 | 122.9 | |
| 22S/24E-15A01 M | 1 | 253.0 | 10-03-73 | 148.1 | 104.9 | 5001 |
| | | | 2-12-74 | 122.1 | 130.9 | |
| 22S/25E-10E01 M | | 296.0 | 10-04-73 | 99.0 | 197.0 | 5001 |
| | | | 2-12-74 | 95.1 | 200.9 | |
| 22S/25E-15A01 M | 1 | 303.0 | 10-04-73 | 127.0 | 176.0 | 5001 |
| | | | 2-05-74 | 132.8 | 170.2 | |
| 22S/26E-06A01 M | 4 | 337.0 | 10-01-73 | 115.5 | 221.5 | 5001 |
| | | | 2-04-74 | 104.0 | 223.0 | |
| VANDALIA I.D. | | | | 5-22.31 | | |
| 22S/28E-07Q01 M | | 524.0 | 9-27-73 | NM-1 | | 5001 |
| | | | 1-29-74 | 119.1 | 404.9 | |
| 22S/28E-17N01 M | | 577.0 | 9-27-73 | 170.5 | 406.5 | 5001 |
| | | | 1-29-74 | 132.0 | 445.0 | |
| 22S/28E-18A01 M | | 535.0 | 9-27-73 | 124.0 | 411.0 | 5001 |
| | | | 1-29-74 | 104.2 | 430.8 | |
| SAUCELITO I.D. | | | | 5-22.32 | | |
| 22S/26E-15J01 M | 4 | 371.0 | 9-25-73 | 127.0 | 244.0 | 5001 |
| | | | 2-05-74 | 115.0 | 256.0 | |
| 23S/26E-02R01 M | 4 | 396.0 | 9-28-73 | 169.0 | 227.0 | 5001 |
| | | | 2-05-74 | 151.0 | 245.0 | |
| 23S/26E-03R01 M | | 381.0 | 9-27-73 | NM-0 | | 5001 |
| PIXLEY I.D. | | | | 5-22.33 | | |
| 22S/25E-25N01 M | | 310.0 | 9-24-73 | NM-1 | | 5001 |
| | | | 1-29-74 | NM-1 | | |
| 23S/24E-16R01 M | | 222.0 | 9-25-73 | 133.5 | 88.5 | 5001 |
| | | | 1-30-74 | 123.7 | 98.3 | |
| 23S/25E-14C01 M | 4 | 300.0 | 9-24-73 | 64.0 | 236.0 | 5001 |
| | | | 1-31-74 | 65.7 | 234.3 | |
| 23S/26E-08R01 M | | 345.0 | 9-24-73 | 182.4 | 162.6 | 5001 |
| | | | 1-31-74 | 170.5 | 174.5 | |
| ALPAUGH-ALLENSWORTH AREA | | | | 5-22.34 | | |
| 23S/24E-35A02 M | | 235.0 | 9-25-73 | 201.0 | 34.0 | 5001 |
| | | | 1-31-74 | 149.1 | 85.9 | |
| 24S/23E-05R02 M | | 210.0 | 9-26-73 | NM-1 | | 5001 |
| | | | 1-28-74 | 224.4 | - 14.4 | |
| 24S/23E-21B02 M | | 205.0 | 9-26-73 | 68.6 | 136.4 | 5001 |
| | | | 1-28-74 | 81.3 | 123.7 | |
| 24S/23E-34R01 M | 3 | 205.0 | 9-26-73 | 246.2 | - 41.2 | 5001 |
| | | | 1-28-74 | 227.0 | - 22.0 | |
| 24S/24E-20R01 M | | 218.0 | 9-26-73 | 260.2 | - 42.2 | 5001 |
| | | | 1-28-74 | 205.9 | 12.1 | |

# TABLE C-3 (Cont.)
# GROUND WATER LEVELS AT WELLS

| STATE WELL NUMBER | AQUIFER | GROUND ELEVATION IN FEET | DATE | GROUND SURFACE TO WATER SURFACE IN FEET | WATER SURFACE ELEVATION IN FEET | AGENCY CODE |
|---|---|---|---|---|---|---|
| ALPAUGH-ALLENSWORTH AREA | | | | 5-22.34 | | |
| 24S/24E-22R01 M | | 233.0 | 9-26-73 | 229.0 | 4.0 | 5001 |
| | | | 1-28-74 | 170.7 | 62.3 | |
| 24S/24E-34F01 M | | 232.0 | 9-26-73 | 101.8 | 130.2 | 5001 |
| | | | 1-28-74 | NM-9 | | |
| 24S/25E-17P01 M | 3 | 268.0 | 9-26-73 | 124.5 | 143.5 | 5001 |
| | | | 1-28-74 | 102.6 | 165.4 | |
| DELANO-EARLIMART I.D. | | | | 5-22.35 | | |
| 23S/25E-26K01 M | 1 | 303.0 | 9-28-73 | 164.0 | 139.0 | 5001 |
| | | | 2-11-74 | 127.0 | 176.0 | |
| 23S/26E-29P01 M | | 357.0 | 9-26-73 | 171.5 | 185.5 | 5001 |
| | | | 2-14-74 | 158.5 | 198.5 | |
| 23S/27E-27G01 M | 4 | 552.0 | 9-27-73 | NM-1 | | 5001 |
| | | | 1-31-74 | 237.5 | 314.5 | |
| 24S/25E-10A01 M | 3 | 304.0 | 9-25-73 | 126.5 | 177.5 | 5001 |
| | | | 2-15-74 | 101.5 | 202.5 | |
| 24S/25E-33J01 M | | 292.0 | 9-26-73 | 49.5 | 242.5 | 5001 |
| | | | 2-15-74 | 48.5 | 243.5 | |
| 24S/26E-05R01 M | 4 | 376.0 | 10-01-73 | 171.0 | 205.0 | 5001 |
| | | | 2-12-74 | 162.0 | 214.0 | |
| 24S/26E-20H01 M | 4 | 378.0 | 9-26-73 | 149.0 | 229.0 | 5001 |
| | | | 2-12-74 | 129.0 | 249.0 | |
| 24S/26E-29R02 M | 1 | 401.0 | 9-26-73 | 133.0 | 268.0 | 5000 |
| | | | 2-11-74 | 126.0 | 275.0 | |
| 24S/26E-32G01 M | 1 | 397.0 | 9-25-73 | 115.0 | 282.0 | 5001 |
| | | | 2-11-74 | 106.0 | 291.0 | |
| 25S/26E-10B03 M | 4 | 430.0 | 9-24-73 | 184.5 | 245.5 | 5001 |
| | | | 2-11-74 | 171.5 | 258.5 | |
| 25S/26E-16P01 M | | 388.0 | 9-24-73 | 88.9 | 299.1 | 5000 |
| | | | 1-29-74 | 91.3 | 296.7 | |
| 25S/27E-22H01 M | 4 | 750.0 | 9-24-73 | 460.5 | 289.5 | 5001 |
| | | | 1-29-74 | 474.0 | 276.0 | |
| SOUTHERN SAN JOAQUIN M.U.D. | | | | 5-22.36 | | |
| 25S/25E-36R02 M | | 335.0 | 9-25-73 | 194.0 | 141.0 | 5001 |
| | | | 1-30-74 | 159.0 | 176.0 | |
| 25S/26E-28H02 M | | 415.0 | 9-27-73 | 171.4 | 243.6 | 5001 |
| | | | 1-29-74 | 165.0 | 250.0 | |
| 26S/26E-16P01 M | | 443.0 | 9-27-73 | 304.0 | 139.0 | 5001 |
| | | | 1-28-74 | NM-3 | | |
| NORTH KERN W.S.D. | | | | 5-22.37 | | |
| 26S/25E-15P01 M | 3 | 348.0 | 9-27-73 | 250.0 | 98.0 | 5000 |
| 26S/25E-15R01 M | 3 | 352.3 | 1-31-74 | 237.0 | 115.3 | 5050 |
| 26S/26E-30P01 M | 2 | 392.0 | 9-27-73 | 285.0 | 107.0 | 5050 |
| 27S/25E-01N01 M | 3 | 394.0 | 9-27-73 | 133.0 | 261.0 | 5000 |
| | | | 1-30-74 | 120.0 | 274.0 | |
| 27S/25E-01N03 M | 2 | 394.0 | 9-27-73 | 308.0 | 86.0 | 5000 |
| | | | 1-30-74 | 262.0 | 132.0 | |
| 27S/26E-20D01 M | 1 | 445.3 | 9-27-73 | 340.0 | 105.3 | 5050 |
| | | | 1-30-74 | 311.0 | 134.3 | |
| 27S/27E-30H02 M | 4 | 525.0 | 9-24-73 | 471.0 | 54.0 | 5001 |
| | | | 1-30-74 | 451.8 | 73.2 | |
| 28S/25E-13L01 M | 3 | 361.1 | 9-26-73 | NM-1 | | 5050 |
| 28S/26E-21H01 M | 3 | 388.0 | 9-26-73 | 187.0 | 201.0 | 5000 |
| | | | 1-29-74 | 188.0 | 200.0 | |
| 28S/26E-21H03 M | 2 | 388.0 | 9-26-73 | 277.0 | 111.0 | 5000 |
| | | | 1-29-74 | 242.0 | 146.0 | |
| SHAFTER-WASCO I.D. | | | | 5-22.38 | | |
| 27S/24E-01L02 M | | 322.0 | 10-01-73 | 280.0 | 42.0 | 5000 |
| | | | 2-04-74 | 235.2 | 86.8 | |
| 27S/24E-35C01 M | 3 | 321.8 | 9-25-73 | 266.5 | 55.3 | 5050 |
| 27S/25E-28A01 M | 3 | 375.0 | 9-26-73 | 287.0 | 88.0 | 5000 |
| 28S/25E-16P01 M | | 329.0 | 10-01-73 | 212.5 | 116.5 | 5000 |
| | | | 2-06-74 | NM-8 | | |
| KERN RIVER DELTA AREA | | | | 5-22.40 | | |
| 28S/26E-29L01 M | 3 | 350.0 | 9-27-73 | 204.0 | 146.0 | 5050 |
| | | | 2-05-74 | 189.0 | 161.0 | |
| KERN RIVER DELTA AREA | | | | 5-22.40 | | |
| 29S/25E-12M03 M | 2 | 330.0 | 10-10-73 | NM-5 | | 5000 |
| | | | 2-06-74 | 178.0 | 152.0 | |
| 30S/25E-17E01 M | | 300.6 | 10-01-73 | NM-0 | | 5640 |
| 30S/25E-22D01 M | | 308.5 | 10-01-73 | 81.6 | 226.9 | 5640 |
| | | | 3-00-74 | 82.4 | 226.1 | |
| 30S/26E-22P02 M | 2 | 338.0 | 10-15-73 | 109.5 | 228.5 | 5000 |
| | | | 2-11-74 | 101.0 | 237.0 | |
| 30S/28E-32B01 M | 1 | 353.0 | 10-02-73 | 117.7 | 235.3 | 5001 |
| | | | 1-29-74 | 114.0 | 239.0 | |
| 31S/27E-04J02 | | 340.0 | 10-08-73 | 144.0 | 196.0 | 5050 |
| | | | 2-11-74 | 139.0 | 201.0 | |
| 31S/27E-28J01 M | 1 | 312.1 | 10-03-73 | 86.5 | 225.6 | 5121 |
| | | | 2-04-74 | 86.0 | 226.1 | |
| 31S/28E-30M01 M | 3 | 314.7 | 9-27-73 | 90.0 | 224.7 | 5050 |
| | | | 1-31-74 | 66.0 | 248.7 | |
| 32S/27E-18E01 M | 3 | 292.6 | 9-26-73 | 156.0 | 136.6 | 5050 |
| | | | 1-31-74 | 132.0 | 160.6 | |
| 32S/28E-04B01 M | | 301.0 | 9-27-73 | 59.3 | 241.7 | 5001 |
| | | | 1-28-74 | 42.3 | 258.7 | |
| EDISON-MARICOPA AREA | | | | 5-22.41 | | |
| 11N/18W-18H01 S | 1 | 726.0 | 10-03-73 | NM-6 | | 5644 |
| 11N/19W-10A01 S | 1 | 612.0 | 10-09-73 | 473.0 | 139.0 | 5644 |
| | | | 1-31-74 | 471.3 | 140.7 | |
| 11N/20W-07Q01 S | 3 | 452.3 | 9-27-73 | 296.0 | 156.3 | 5050 |
| | | | 2-01-74 | 293.0 | 159.3 | |
| 11N/20W-24A01 S | | 730.2 | 9-27-73 | NM-6 | | 5050 |
| 11N/21W-05M01 S | 3 | 515.9 | 9-27-73 | NM-4 | | 5050 |
| | | | 1-31-74 | 427.0 | 88.9 | |
| 11N/22W-04H01 S | 3 | 529.0 | 9-27-73 | 408.0 | 121.0 | 5050 |
| | | | 1-31-74 | 405.0 | 124.0 | |
| 29S/29E-33N01 M | 4 | 580.0 | 9-19-73 | 433.9 | 146.1 | 5644 |
| | | | 1-24-74 | 421.0 | 159.0 | |
| 30S/28E-02R01 M | 4 | 410.0 | 10-03-73 | NM-1 | | 5001 |
| | | | 1-29-74 | 243.0 | 168.0 | |
| 30S/28E-10N01 M | | 373.0 | 10-03-73 | 58.5 | 314.5 | 5001 |
| | | | 1-30-74 | 57.8 | 315.2 | |
| 30S/28E-10N04 M | | 373.0 | 10-03-73 | 182.5 | 190.5 | 5000 |
| | | | 1-30-74 | 191.5 | 181.5 | |
| 30S/29E-05F01 M | | 515.0 | 9-19-73 | 370.4 | 144.6 | 5644 |
| | | | 1-30-74 | 370.8 | 144.2 | |
| 30S/29E-27A01 M | 1 | 575.0 | 9-20-73 | 132.5 | 442.5 | 5644 |
| | | | 2-07-74 | 126.5 | 448.5 | |
| 30S/30E-20R01 M | 4 | 794.0 | 9-21-73 | NM-7 | | 5644 |
| | | | 2-08-74 | 215.3 | 578.7 | |
| 31S/29E-04P01 M | | 459.0 | 9-21-73 | 328.9 | 130.1 | 5644 |
| | | | 2-08-74 | NM-1 | | |
| 31S/29E-29A01 M | | 400.0 | 9-26-73 | 178.6 | 221.4 | 5001 |
| | | | 1-29-74 | 149.5 | 250.5 | |
| 31S/30E-21G01 M | 4 | 536.0 | 9-26-73 | 370.8 | 165.2 | 5644 |
| | | | 1-29-74 | 372.8 | 163.2 | |
| 32S/28E-23R01 M | | 386.0 | 9-27-73 | 292.8 | 93.2 | 5644 |
| | | | 2-07-74 | 260.4 | 125.6 | |
| 32S/29E-19H02 M | | 416.0 | 9-28-73 | 201.5 | 214.5 | 5000 |
| | | | 2-04-74 | 200.5 | 215.5 | |
| 32S/29E-19H03 M | | 416.0 | 9-28-73 | 349.9 | 66.1 | 5000 |
| | | | 2-04-74 | 301.0 | 115.0 | |
| BUENA VISTA W.S.D. | | | | 5-22.42 | | |
| 27S/22E-21F02 M | | 240.0 | 10-17-73 | 16.0 | 224.0 | 5121 |
| | | | 2-01-74 | 17.0 | 223.0 | |
| 27S/22E-32H01 M | 1 | 241.0 | 10-16-73 | 143.0 | 98.0 | 5000 |
| | | | 2-01-74 | NM-7 | | |
| 28S/22E-09D01 M | 3 | 240.0 | 10-17-73 | 13.5 | 226.5 | 5000 |
| | | | 2-01-74 | 12.0 | 228.0 | |
| 28S/23E-31R01 M | | 257.8 | 10-01-73 | 28.5 | 229.3 | 5640 |
| | | | 3-00-74 | 25.4 | 232.4 | |
| 29S/23E-08A01 M | | 259.0 | 10-01-73 | 38.3 | 220.7 | 5640 |
| | | | 3-00-74 | 36.0 | 223.0 | |
| 29S/23E-27M01 M | 1 | 270.0 | 10-10-73 | 52.5 | 217.5 | 5000 |
| | | | 2-05-74 | NM-1 | | |
| 30S/23E-01D01 M | | 276.8 | 10-01-73 | 73.2 | 203.6 | 5640 |
| | | | 3-00-74 | 72.8 | 204.0 | |

# TABLE C-3 (Cont.)
# GROUND WATER LEVELS AT WELLS

| STATE WELL NUMBER | AQUIFER | GROUND ELEVATION IN FEET | DATE | GROUND SURFACE TO WATER SURFACE IN FEET | WATER SURFACE ELEVATION IN FEET | AGENCY CODE |
|---|---|---|---|---|---|---|
| BUENA VISTA W.S.D. | | | | 5-22.42 | | |
| 30S/24E-02C01 M | | 288.7 | 10-01-73 | 102.3 | 186.4 | 5640 |
| | | | 3-00-74 | 100.6 | 188.1 | |
| 30S/24E-04C01 M | 1 | 282.0 | 10-12-73 | 84.5 | 197.5 | 5000 |
| | | | 2-05-74 | 83.0 | 199.0 | |
| 31S/25E-26A01 M | | 289.0 | 10-09-73 | 63.0 | 226.0 | 5121 |
| | | | 2-07-74 | 65.0 | 224.0 | |
| SEMITROPIC W.S.D. | | | | 5-22.43 | | |
| 25S/22E-02N02 M | 1 | 212.0 | 10-11-73 | NM-5 | | 5121 |
| | | | 1-29-74 | NM-5 | | |
| 25S/22E-14G01 M | | 215.0 | 10-11-73 | 258.5 | - 43.5 | 5121 |
| | | | 1-29-74 | 188.0 | 27.0 | |
| 25S/23E-28D01 M | 1 | 217.0 | 10-12-73 | 108.0 | 109.0 | 5121 |
| | | | 1-30-74 | 98.0 | 119.0 | |
| 25S/23E-28D03 M | 2 | 217.0 | 10-12-73 | NM-3 | | 5121 |
| | | | 1-30-74 | NM-3 | | |
| 25S/24E-10K01 M | 1 | 240.0 | 9-24-73 | 61.7 | 178.3 | 5001 |
| | | | 1-28-74 | 59.0 | 181.0 | |
| 25S/24E-15H01 M | | 248.0 | 9-24-73 | 78.3 | 169.7 | 5001 |
| | | | 1-28-74 | 76.3 | 171.7 | |
| 25S/24E-30H01 M | | 238.0 | 10-12-73 | 292.5 | - 54.5 | 5001 |
| | | | 1-30-74 | 210.0 | 28.0 | |
| 26S/21E-14J01 M | 1 | 237.0 | 10-11-73 | 27.0 | 210.0 | 5121 |
| | | | 1-28-74 | 27.0 | 210.0 | |
| 26S/22E-10G02 M | 1 | 225.0 | 1-31-74 | NM-0 | | 5121 |
| 26S/23E-02R01 M | 2 | 234.9 | 10-16-73 | NM-4 | | 5121 |
| | | | 1-30-74 | NM-9 | | |
| 26S/24E-23H01 M | 2 | 295.5 | 9-24-73 | NM-8 | | 5050 |
| 27S/23E-01R01 M | 1 | 267.0 | 10-16-73 | 98.5 | 168.5 | 5121 |
| | | | 1-30-74 | 98.0 | 169.0 | |
| 27S/23E-01R04 M | 2 | 267.0 | 10-16-73 | 274.5 | - 7.5 | 5121 |
| | | | 1-30-74 | 234.0 | 33.0 | |
| 27S/23E-01R05 M | 2 | 267.0 | 10-16-73 | 272.5 | - 5.5 | 5121 |
| | | | 1-30-74 | 230.0 | 37.0 | |
| 27S/23E-06L01 M | | 258.0 | 10-12-73 | 34.0 | 224.0 | 5121 |
| | | | 1-31-74 | NM-6 | | |
| 28S/23E-11E01 M | | 255.0 | 10-01-73 | 33.4 | 221.6 | 5640 |
| | | | 3-00-74 | 33.8 | 221.2 | |
| 29S/24E-14R01 M | 1 | 290.0 | 10-10-73 | 54.0 | 236.0 | 5121 |
| | | | 2-06-74 | 57.0 | 233.0 | |
| AVENAL-MCKITTRICK AREA | | | | 5-22.44 | | |
| 23S/19E-26M01 M | 1 | 267.0 | 10-29-73 | 51.0 | 216.0 | 5050 |
| | | | 2-19-74 | NM-6 | | |
| 25S/19E-20Q02 M | 1 | 480.0 | 10-10-73 | 110.6 | 369.4 | 5121 |
| | | | 1-28-74 | 110.0 | 370.0 | |
| 25S/20E-04C01 M | 1 | 268.0 | 10-29-73 | 53.0 | 215.0 | 5121 |
| | | | 2-19-74 | 50.0 | 218.0 | |
| 26S/18E-19B02 M | 1 | 875.0 | 10-10-73 | 164.0 | 711.0 | 5121 |
| | | | 1-28-74 | 163.0 | 712.0 | |
| 28S/22E-20M01 M | | 290.0 | 10-30-73 | 72.0 | 218.0 | 5050 |
| | | | 2-19-74 | DRY | | |
| TULARE LAKE-LOST HILLS AREA | | | | 5-22.45 | | |
| 22S/19E-18P02 M | 1 | 255.0 | 10-29-73 | 194.0 | 61.0 | 5050 |
| | | | 2-19-74 | 176.0 | 79.0 | |
| 22S/21E-01J01 M | 2 | 185.5 | 3-13-74 | 99.0 | 86.5 | 5050 |
| 23S/19E-14R01 M | 1 | 235.0 | 10-29-73 | 36.0 | 199.0 | 5050 |
| | | | 2-19-74 | 37.2 | 197.8 | |
| 24S/20E-21N02 M | 1 | 233.0 | 2-19-74 | NM-9 | | 5050 |
| 24S/21E-15J01 M | | 211.0 | 3-15-74 | 18.0 | 193.0 | 5050 |
| 24S/21E-26R01 M | | 210.0 | 3-15-74 | NM-6 | | 5050 |
| TULARE LAKE-LOST HILLS AREA | | | | 5-22.45 | | |
| 24S/22E-28A02 M | | 207.0 | 10-17-73 | 249.0 | - 42.0 | 5050 |
| | | | 3-15-74 | NM-9 | | |
| 24S/22E-35E01 M | | 213.0 | 10-17-73 | 287.0 | - 74.0 | 5050 |
| | | | 3-14-74 | NM-1 | | |
| 25S/21E-30K01 M | 1 | 237.5 | 10-30-73 | 35.3 | 202.2 | 5050 |
| | | | 2-19-74 | NM-9 | | |
| CORCORAN I.D. | | | | 5-22.46 | | |
| 20S/22E-35R01 M | 1 | 216.0 | 10-17-73 | 65.0 | 151.0 | 5050 |
| | | | 3-13-74 | 59.0 | 157.0 | |
| 21S/22E-27A01 M | | 196.0 | 10-17-73 | 10.5 | 185.5 | 5050 |
| | | | 3-15-74 | 15.0 | 181.0 | |
| 22S/22E-01B02 M | | 201.0 | 10-17-73 | 7.5 | 193.5 | 5050 |
| | | | 3-15-74 | 6.0 | 195.0 | |
| 22S/22E-05L01 M | 2 | 188.0 | 3-13-74 | 98.0 | 90.0 | 5050 |
| 22S/22E-10A01 M | 2 | 192.0 | 10-17-73 | 120.0 | 72.0 | 5050 |
| | | | 3-15-74 | 100.0 | 92.0 | |
| 22S/22E-13P01 M | 1 | 193.0 | 10-17-73 | 17.5 | 175.5 | 5050 |
| | | | 3-15-74 | 18.5 | 174.5 | |
| 22S/22E-15C01 M | 2 | 191.0 | 10-17-73 | 116.0 | 75.0 | 5050 |
| | | | 3-13-74 | NM-6 | | |
| 22S/22E-22H01 M | 2 | 191.0 | 10-17-73 | 124.0 | 67.0 | 5050 |
| | | | 3-15-74 | 106.0 | 85.0 | |
| MENDOTA-HURON AREA | | | | 5-22.47 | | |
| 13S/12E-22N01 M | 2 | 280.0 | 3-15-74 | NM-1 | | 5001 |
| 14S/15E-18E02 M | | 179.5 | 10-04-73 | 74.6 | 104.9 | 5001 |
| | | | 2-13-74 | 165.2 | 14.3 | |
| 15S/14E-15E04 M | | 235.5 | 10-05-73 | 280.8 | - 45.3 | 5001 |
| | | | 2-13-74 | 267.3 | - 31.8 | |
| 15S/15E-22Q01 M | | 175.0 | 10-05-73 | NM-1 | | 5001 |
| | | | 2-13-74 | 77.5 | 97.5 | |
| 15S/16E-17L01 M | | 165.0 | 10-09-73 | 34.0 | 131.0 | 5620 |
| | | | 2-01-74 | 41.7 | 123.3 | |
| 15S/16E-28A04 M | | 168.5 | 10-09-73 | 147.2 | 21.3 | 5620 |
| | | | 2-01-74 | 137.1 | 31.4 | |
| 17S/14E-13R01 M | 1 | 457.0 | 2-08-74 | 733.0 | -276.0 | 5050 |
| 17S/16E-24R01 M | | 232.5 | 2-07-74 | 265.0 | - 32.5 | 5050 |
| 17S/16E-30A03 M | | 290.0 | 10-10-73 | 63.5 | 226.5 | 5001 |
| | | | 2-05-74 | 63.4 | 226.6 | |
| 17S/16E-30A06 M | | 302.0 | 10-10-73 | NM-0 | | 5001 |
| 17S/17E-20N01 M | 3 | 228.0 | 2-05-74 | NM-1 | | 5050 |
| 18S/17E-12N01 M | 2 | 253.0 | 2-05-74 | NM-1 | | 5050 |
| 19S/18E-15M01 M | 2 | 274.0 | 2-06-74 | 245.0 | 29.0 | 5050 |
| 20S/17E-32F01 M | | 447.0 | 2-05-74 | NM-3 | | 5050 |
| 20S/18E-11N01 M | 3 | 277.0 | 2-06-74 | 319.0 | - 42.0 | 5050 |
| 20S/18E-36D01 M | | 260.0 | 2-06-74 | 222.0 | 38.0 | 5000 |
| 21S/18E-28M02 M | | 363.0 | 2-07-74 | 340.0 | 23.0 | 5050 |
| POSO RESDURCES C.D. | | | | 5-22.48 | | |
| 11S/13E-05Q01 M | | 117.0 | 10-05-73 | 9.0 | 108.0 | 5529 |
| | | | 4-11-74 | 6.0 | 111.0 | |
| TERRA BELLA I.D. | | | | 5-22.50 | | |
| 22S/27E-25J03 M | | 532.0 | 9-26-73 | NM-7 | | 5001 |
| | | | 2-05-74 | 96.0 | 436.0 | |
| 23S/27E-01A01 M | | 506.0 | 9-28-73 | NM-0 | | 5001 |
| 23S/27E-05A01 M | 4 | 450.0 | 9-28-73 | 175.9 | 274.1 | 5001 |
| | | | 1-31-74 | 161.1 | 288.9 | |
| MERCED BOTTOMS | | | | 5-22.54 | | |
| 07S/10E-23K01 M | | 80.0 | 10-15-73 | 19.5 | 60.5 | 5050 |
| | | | 3-22-74 | 4.5 | 75.5 | |

# TABLE C-3 (Cont.)
# GROUND WATER LEVELS AT WELLS

| STATE WELL NUMBER | AQUIFER | GROUND ELEVATION IN FEET | DATE | GROUND SURFACE TO WATER SURFACE IN FEET | WATER SURFACE ELEVATION IN FEET | AGENCY CODE |
|---|---|---|---|---|---|---|
| MERCED BOTTOMS | | | | 5-22.54 | | |
| 07S/10E-23K02 M | | 80.0 | 10-15-73 | 4.3 | 75.7 | 5050 |
| | | | 3-22-74 | 3.5 | 76.5 | |
| 07S/12E-27F01 M | | 110.5 | 10-15-73 | 15.0 | 95.5 | 5050 |
| | | | 3-19-74 | 14.5 | 96.0 | |
| 08S/12E-19D01 M | | 90.0 | 3-20-74 | 12.0 | 78.0 | 5050 |
| 09S/12E-01C01 M | 1 | 110.5 | 10-15-73 | 41.0 | 69.5 | 5050 |
| | | | 3-22-74 | 33.0 | 77.5 | |
| 09S/14E-01B01 M | | 180.0 | 10-15-73 | 92.0 | 88.0 | 5050 |
| | | | 3-19-74 | 65.0 | 115.0 | |
| 09S/14E-01B02 M | | 180.0 | 10-15-73 | 90.0 | 90.0 | 5050 |
| | | | 3-19-74 | 62.0 | 118.0 | |
| 09S/14E-01B03 M | | 180.0 | 10-15-73 | 38.0 | 142.0 | 5050 |
| | | | 3-19-74 | 38.0 | 142.0 | |
| 09S/14E-06D01 M | | 141.0 | 10-11-73 | 44.9 | 96.1 | 5050 |
| | | | 3-20-74 | 44.0 | 97.0 | |
| GARFIELD W.D. | | | | 5-22.65 | | |
| 12S/20E-13H01 M | 4 | 387.0 | 10-09-73 | 114.4 | 272.6 | 5001 |
| | | | 2-04-74 | 105.4 | 281.6 | |
| 12S/21E-07A02 M | 4 | 405.5 | 10-09-73 | 124.3 | 281.2 | 5001 |
| | | | 2-04-74 | 121.6 | 283.9 | |
| 12S/21E-18A03 M | 4 | 390.5 | 10-09-73 | 91.6 | 298.9 | 5001 |
| | | | 2-04-74 | 87.6 | 302.9 | |
| KINGS COUNTY W.D. | | | | 5-22.66 | | |
| 17S/20E-36R02 M | 1 | 243.0 | 10-01-73 | 17.9 | 225.1 | 5129 |
| | | | 1-30-74 | 16.9 | 226.1 | |
| 17S/22E-11P01 M | 1 | 283.0 | 9-29-73 | 23.1 | 259.9 | 5129 |
| | | | 1-30-74 | 19.2 | 263.8 | |
| 17S/22E-35N01 M | 1 | 266.0 | 9-29-73 | 52.8 | 213.2 | 5129 |
| | | | 1-30-74 | 39.9 | 226.1 | |
| 18S/21E-17N01 M | 1 | 238.0 | 10-01-73 | 11.4 | 226.6 | 5129 |
| | | | 1-30-74 | 13.5 | 224.5 | |
| 18S/22E-21H01 M | 1 | 258.0 | 9-29-73 | 82.1 | 175.9 | 5129 |
| | | | 1-30-74 | 79.8 | 178.2 | |
| 18S/22E-36P01 M | | 245.0 | 9-29-73 | 101.5 | 143.5 | 5129 |
| | | | 1-30-74 | 73.1 | 171.9 | |
| 18S/23E-28B01 M | 1 | 263.0 | 9-29-73 | 106.8 | 156.2 | 5129 |
| | | | 1-30-74 | 81.9 | 181.1 | |
| 19S/21E-20N01 M | 1 | 225.0 | 9-28-73 | 11.8 | 213.2 | 5129 |
| | | | 1-28-74 | 9.9 | 215.1 | |
| 19S/22E-04B01 M | 1 | 245.0 | 9-29-73 | 138.8 | 106.2 | 5129 |
| | | | 1-28-74 | 93.6 | 151.4 | |
| 19S/22E-19A01 M | 2 | 235.0 | 9-28-73 | 88.2 | 146.8 | 5129 |
| | | | 1-28-74 | 74.1 | 160.9 | |
| 19S/22E-23A01 M | | 240.0 | 9-28-73 | 81.9 | 158.6 | 5129 |
| | | | 1-28-74 | 76.5 | 164.0 | |
| 20S/21E-03A01 M | 1 | 220.0 | 10-05-73 | 10.0 | 210.0 | 5603 |
| | | | 2-05-74 | 11.5 | 208.5 | |
| 20S/21E-05E01 M | 2 | 219.0 | 9-28-73 | 138.8 | 80.2 | 5129 |
| | | | 1-28-74 | 128.2 | 90.8 | |
| 20S/22E-10H02 M | 2 | 225.0 | 10-04-73 | 130.2 | 94.8 | 5129 |
| | | | 2-06-74 | NM-7 | | |
| PLEASANT VALLEY | | | | 5-22.69 | | |
| 20S/15E-25D01 M | 1 | 619.0 | 2-28-74 | DRY | | 5050 |
| 20S/15E-32A01 M | 1 | 675.0 | 2-28-74 | 281.0 | 394.0 | 5050 |
| 21S/16E-02N01 M | 1 | 570.0 | 2-27-74 | NM-1 | | 5050 |
| 21S/16E-07N01 M | 1 | 634.0 | 2-27-74 | NM-6 | | 5050 |
| 21S/16E-35D01 M | 1 | 682.0 | 2-27-74 | NM-1 | | 5050 |

| STATE WELL NUMBER | AQUIFER | GROUND ELEVATION IN FEET | DATE | GROUND SURFACE TO WATER SURFACE IN FEET | WATER SURFACE ELEVATION IN FEET | AGENCY CODE |
|---|---|---|---|---|---|---|

# APPENDIX D

# SURFACE WATER QUALITY

# APPENDIX D

# SURFACE WATER QUALITY

## Introduction

Appendix D summarizes the surface water quality for the San Joaquin Valley for 1974 water year (October 1, 1973, through September 30, 1974). These data were obtained from 81 surface water quality sampling stations.

Laboratory analyses of surface water samples performed by the Department of Water Resources' laboratory reported herein are in accordance with the 13th edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight digit identification number. The first two digits denote the drainage basin as shown below; the remaining digits identify each station.

| Hydrographic Area B<br>San Joaquin River Basin | | Hydrographic Area C<br>Tulare Lake Drainage Basin | |
|---|---|---|---|
| B0 | San Joaquin Valley Floor | C0 | Tulare Lake Valley Floor |
| B3 | Stanislaus River | C1 | Kings River |
| B4 | Tuolumne River | C2 | Kaweah River |
| B5 | Merced River | C3 | Tule River |
| B6 | Fresno-Chowchilla Rivers | C4 | Greenhorn Mountains |
| B7 | San Joaquin River | C5 | Kern River |
| B8 | San Joaquin Valley on West Side | C6 | Tehachapi Mountains |
| | | C7 | Tulare Lake Basin on West Side |

TABLE D-I

# SAMPLING STATION DATA AND INDEX FOR SURFACE WATER

| Station | Station Identification Number | Location[a] | Period[b] of Record | Frequency[c] of Sampling | Sampled[d] By | Analysis on Page |
|---|---|---|---|---|---|---|
| Bear Creek above Bear Creek Reservoir | B55152.10 | 6S/16E-22Q | February 1974 | | DWR | 169, 179, 184 |
| Big Creek above Pine Flat Reservoir | C11320.00 | 11S/25E-4 | -- | S | DWR | 171, 180, 185 |
| Burns Creek at Merced-Mariposa County Line | B56152 50 | 6S/16E-19D | February 1974 | | DWR | 169, 173, 179 184 |
| Canal Creek at Oakdale Road | B05166.50 | 6S/13E-10K | February 1974 | | DWR | 166, 167, 177 182 |
| Chowchilla River near Raymond | B64200.00 | 8S/18E-01R | July 1958 | S | DWR | 170 |
| Deadman Creek at Baxter Road | B06399.50 | 8S/17E-17M | February 1974 | | DWR | 167, 177, 182 |
| Delta-Mendota Canal to Mendota Pool | B00770.00 | 13S/15E-19Q | July 1952 | S | DWR | 166 |
| Dutchman Creek at Baxter Road | B06369.50 | 8S/17E-20N | February 1974 | | DWR | 167, 177, 182 |
| Fresno River near Daulton | B67150.00 | 10S/19E-03 | January 1958 | S | DWR | 170 |
| Friant-Kern Canal at Friant | B71910.00 | 11S/21E-05P | March 1974 | Q | DWR | 170 |
| Kaweah River above Lake Kaweah | C21210.30 | 17S/28E-34 | -- | S | DWR | 180, 185 |
| Kaweah River at Lemoncove | C02550.30 | 18S/27E-3 | -- | S | DWR | 179, 184 |
| Kaweah River Middle Fork below No. 2 Intake near Three Rivers | C23147.00 | 16S/29E-33 | -- | S | DWR | 180, 185 |
| Kaweah River North Fork near Mouth | C22010.30 | 17S/28E-13 | -- | S | DWR | 180, 185 |
| Kaweah River South Fork above Grouse Creek | C24201.50 | 18S/29E-16 | -- | S | DWR | 180, 185 |
| Kaweah River below Terminus Dam | C02185.00 | 17S/27E-25 | September 1961 | Q | DWR | 170 |
| Kaweah River at Three Rivers | C21250.00 | 17S/28E-13N | April 1951 | S | DWR | 171 |
| Kerckhoff Reservoir near Auberry | B71188.00 | 9S/22E-24P | March 1974 | S | DWR | 170 |
| Kern River near Bakersfield | C05150.00 | 28S/29E-33 | April 1951 | Q | DWR | 171 |
| Kern River above Fairview | C51660.10 | 23S/32E-12 | -- | S | DWR | 180, 185 |
| Kern River at Hart Park | C05160.10 | 28S/28E-36 | -- | S | DWR | 179, 185 |
| Kern River below Isabella Dam | C51350.00 | 26S/33E-30E | -- | S | DWR | 171 |
| Kern River at Kernville | C51500.00 | 25S/33E-15 | -- | S | DWR | 171, 180, 18 |
| Kern River at Miracle Hot Springs | C51220.10 | 27S/32E-15 | -- | S | DWR | 180, 185 |
| Kern River at Rancheria Bridge | C05180.10 | 29S/29E-11 | -- | S | DWR | 179, 185 |
| Kern River South Fork near Weldon | C53110.10 | 26S/34E-10 | -- | S | DWR | 180, 185 |
| Kings River below North Fork | C11460.00 | 12S/26E-21 | -- | S | DWR | 171, 180, 18 |
| Kings River below Peoples Weir | C01140.00 | 17S/22E-01 | April 1951 | Q | DWR | 170 |
| Kings River near Piedra | C11115.50 | 13S/24E-08B | February 1974 | | DWR | 180, 185 |
| Kings River below Pine Flat Reservoir | C11140.00 | 13S/24E-02 | September 1955 | Q | DWR | 171 |
| Kings River South Fork at Cedar Grove | C14115.30 | 13S/30E-1 | -- | S | DWR | 180, 185 |
| Mariposa Creek above Mariposa Reservoir | B62204.10 | 7S/17E-17A | February 1974 | | DWR | 170, 173, 1 184 |
| Merced River at Bagby | B51320.00 | 04S/17-6 | November 1952 | S | DWR | 178, 183 |
| Merced River above Briceburg | B51410.10 | 03S/18E-25 | October 1972 | S | DWR | 178, 184 |
| Merced River below El Portal | B51517.10 | 03S/20E-18 | October 1972 | S | DWR | 179, 184 |
| Merced River below Exchequer Dam | B51200.00 | 04S/15E-13 | April 1951 | Q | DWR | 169 |
| Merced River at Happy Isles Bridge near Yosemite | B51700.00 | 02S/21E- | -- | S | DWR | 179, 184 |

TABLE D-I (Continued)

# SAMPLING STATION DATA AND INDEX FOR SURFACE WATER

| Station | Station Identification Number | Location[a] | Period[b] of Record | Frequency[c] of Sampling | Sampled[d] By | Analysis on Page |
|---|---|---|---|---|---|---|
| Merced River at junction Big Oak Flat Road and Highway 140 | B51519.50 | 02S/21E- | February 1973 | S | DWR | 179, 184 |
| Merced River above Lake McClure Reservoir | B51400.00 | 3S/18E-36B | March 1966 | | DWR | 169 |
| Merced River at Milliken Bridge | B05131.00 | 06S/09E-36 | April 1951 | M | DWR | 166 |
| Owens Creek above Owens Reservoir | B62020.10 | 7S/16E-12H | February 1974 | | DWR | 170, 173, 179 184 |
| Salt Slough near Stevinson | B00470.00 | 08S/10E-10 | December 1961 | Q | DWR | 166, 187 |
| San Joaquin River at Crows Landing Bridge | B07250.00 | 6S/9E-07A | January 1957 | | DWR | 168 |
| San Joaquin River at Fremont Ford Bridge | B07375.00 | 07S/09E-24 | July 1955 | | DWR | 168, 187 |
| San Joaquin River at Friant Dam | B07885.00 | 11S/21E-07 | April 1951 | | DWR | 168, 182 |
| San Joaquin River near Grayson | B07080.00 | 04S/07E-25 | April 1959 | M | DWR | 167 |
| San Joaquin River at Maze Road Bridge | B07040.00 | 03S/07E-33 | April 1951 | M | DWR | 167 |
| San Joaquin River near Mendota | B07710.00 | 13S/15E-07 | April 1951 | M | DWR | 168 |
| San Joaquin River at North Fork Road Bridge | B07886.50 | 11S/21E-07H | February 1974 | | DWR | 177, 182 |
| San Joaquin River at Patterson Bridge | B07200.00 | 5S/8E-15M | February 1958 | | DWR | 168 |
| San Joaquin River below Shakeflat Creek | B71532.50 | 7S/24E-10 | -- | S | DWR | 179, 184 |
| San Joaquin River South Fork at Mono Hot Springs | B74250.50 | 7S/27E-10 | -- | S | DWR | 179, 184 |
| San Joaquin River near Vernalis | B07020.00 | 03S/06E-13 | April 1951 | M | DWR & USGS | 167, 173, 175 177, 182, 187 |
| San Joaquin River above Willow Creek near Auberry | B71340.00 | 9S/23E-15 | -- | S | DWR | 179, 184 |
| Stanislaus River at Knights Ferry | B03185.00 | 1S/12E-29 | -- | S | DWR | 166, 177, 182 |
| Stanislaus River at Koetitz Ranch | B03115.00 | 03S/07E-02 | April 1951 | M | DWR | 166 |
| Stanislaus River above Melones Reservoir | B31340.50 | 2N/14E-09D | March 1966 | | DWR | 168 |
| Stanislaus River Middle Fork at Beardsley | B33255.00 | 5N/18E-31 | -- | S | DWR | 168, 178, 183 |
| Stanislaus River Middle Fork at Dardanelle | B33480.10 | 6N/20E-30 | -- | S | DWR | 168, 178, 183 |
| Stanislaus River North Fork at Calaveras Big Trees State Park | B32110.10 | 5N/15E-24 | -- | S | DWR | 168, 178, 183 |
| Stanislaus River at Parrotts Ferry Bridge | B31400.50 | 2N/13E-9 | -- | S | DWR | 168, 177, 182 |
| Stanislaus River below Tulloch Dam | B31158.10 | 01S/12E-02 | August 1956 | Q | DWR | 168 |
| Tule River North Fork at Bear Creek Road | C32190.10 | 20S/29E-35 | -- | S | DWR | 180, 185 |
| Tule River South Fork above Crew Creek | C34149.30 | 22S/29E-4 | | S | DWR | 180, 185 |
| Tule River South Fork of Middle Fork near Springville | C33200.00 | 20S/30E | -- | S | DWR | 180, 185 |
| Tule River below Springville | C31929.30 | 21S/29E-17 | -- | S | DWR | 171, 180, 185 |
| Tule River near Springville | C31150.00 | 21S/29E-15P | January 1964 | S | DWR | 171 |
| Tule River below Success Dam | C03196.00 | 21S/28E-35 | July 1956 | Q | DWR | 170 |
| Tule River at Worth Bridge near Porterville | C03195.00 | 22S/28E-3 | -- | S | DWR | 179, 184 |
| Tuolumne River above Don Pedro Reservoir | B41265.50 | 1S/15E-20B | March 1966 | S | DWR | 169 |
| Tuolumne River above Early Intake | B41680.10 | 1S/18E-1 | -- | S | DWR | 169, 178, 183 |
| Tuolumne River at Hickman Bridge near Waterford | B04150.00 | 03S/11E-33 | April 1951 | | DWR | 166 |

TABLE D-1 (Continued)

# SAMPLING STATION DATA AND INDEX FOR SURFACE WATER

| Station | Station Identification Number | Location[a] | Period[b] of Record | Frequency[c] of Sampling | Sampled[d] By | Analysis on Page |
|---|---|---|---|---|---|---|
| Tuolumne River at La Grange Bridge | B04175.00 | 03S/14E-20 | -- | | DWR | 166, 177, 182 |
| Tuolumne River at Tuolumne City | B04105.00 | 04S/08E-12 | April 1951 | M | DWR | 166 |
| Tuolumne River at Tuolumne Meadows | B41850.10 | 1S/24E-3 | -- | S | DWR | 169, 178, 183 |
| Tuolumne River at Wards Ferry Bridge | B41290.10 | 1S/15E-2 | -- | S | DWR | 169, 178, 183 |
| Woods Creek at County Fairgrounds | B41239.50 | 2N/14E-36P | October 1973 | | DWR | 169, 178, 183 |
| Woods Creek at Jack Page Road above Sonora | B41241.50 | 2N/14E-25B | October 1973 | | DWR | 169, 178, 183 |
| Woods Creek below Jamestown Sewage Treatment Plant | B41235.50 | 1N/14E-15M | October 1973 | | DWR | 168, 178, 183 |
| Woods Creek at Slate Creek | B41232.50 | 1N/14E-33H | October 1973 | | DWR | 168, 173, 178 183 |
| Woods Creek below Sonora Sewage Treatment Plant | B41238.50 | 1N/14E-01N | October 1973 | | DWR | 169, 178, 183 |

a. Location of sampling stations is shown on Figure B-1.
b. Beginning of record (-- indicates an irregular period of record).
c. M - Monthly, Q - Quarterly, S - Semiannually, all others irregular.
d. DWR - Dept. of Water Resources, USGS - U. S. Geological Survey.

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources' Bryte Laboratory the U. S. Geological Survey's Salt Lake City laboratory.

The sampler and laboratory codes are as follows:

5000 U. S. Geological Survey

5050 Department of Water Resources

5647 Tehachapi-Cummings Water District

Definitions of chemical symbols and abbreviations used in this table are as follows:

Chemical Symbols

| | | | |
|---|---|---|---|
| CA | Calcium | $SO_4$ | Sulfate |
| MG | Magnesium | CL | Chloride |
| NA | Sodium | $NO_3$ | Nitrate |
| K | Potassium | F | Fluoride |
| $CO_3$ | Carbonate | B | Boron |
| $HCO_3$ | Bicarbonate | $SiO_2$ | Silica |

Abbreviations

| | | | |
|---|---|---|---|
| TEMP | Temperature | DO | Dissolved Oxygen |
| SAT | Percent Saturation | GH | Gage Height |
| Q | Flow | FLD | Field Determination |
| LAB | Laboratory | EC | Specific Electrical Conductance in Micromhos |
| pH | Measurement of Acidity or Alkalinity of Water | TDS | Total Dissolved Solids |
| SUM | Summation of Analyzed Constituents | TH | Total Hardness |
| NCH | Noncarbonate Hardness | TURB | Turbidity in Turbidity Units |
| SAR | Sodium Adsorption Ratio | | |
| REM | Remarks as follows: | | |

T Total Dissolved Solids and the calculated sum of constituents are not within 20 percent of each other.

E Total Dissolved Solids value is not within the range of 0.35 to 0.70 of the Specific Electrical Conductance.

S The anion and cation sums are not within the prescribed tolerance of ±5 percent.

X The field EC and the laboratory EC are not within 20 percent of each other.

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

| DATE TIME | SAMPLER LAB | G.H. Q DEPTH | DO SAT | TEMP | FIELD PH | LABORATORY EC | CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCH | TURB SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE | | | | | | | | | MILLIGRAMS PER LITER | | | | | |
| | RO | 0470.00 | | | | SALT SLOUGH NR STEVINSON | | | | | | | | | | | | | | | |
| 11/15/73 | 5050 | | | 57.2F | 7.5 | 1200 | 69 | 34 | 192 | 4.9 | 0 | 219 | 198 | 237 | 4.5 | .80 | -- | 890 | 314 | 22A | X |
| 1030 | 5050 | | | 14.0C | 8.1 | 1520 | 3.44 | 2.60 | 8.35 | .13 | .00 | 3.59 | 4.12 | 6.68 | .07 | | -- | 848 | 133 | 4.7 | |
| | | | | | | | 23 | 19 | 57 | 1 | | 25 | 28 | 46 | | | | | | | |
| 03/12/74 | 5050 | 22.81 | 8.8 | 63 F | 7.4 | 1450 | 82 | 42 | 213 | -- | 0 | 168 | -- | 244 | 2.1 | 1.60 | -- | 1070 | 380 | | |
| 1515 | 5050 | | 91 | 17 C | 7.4 | 1730 | 4.09 | 3.50 | 9.27 | | .00 | 2.75 | | 6.88 | .03 | | -- | | 242 | 4.8 | |
| | | | | | | | 24 | 21 | 55 | | | 28 | | 71 | | | | | | | |
| 05/23/74 | 5050 | | | 69.8F | 7.2 | 1000 | 53 | 26 | 130 | 4.3 | 0 | 156 | 148 | 169 | 6.8 | .60 | -- | 630 | 240 | | |
| 0945 | 5050 | | | 21.0C | 7.5 | 1100 | 2.64 | 2.14 | 5.66 | .11 | .00 | 2.56 | 3.08 | 4.77 | .11 | | 17.0 | 631 | 111 | 3.7 | |
| | | | | | | | 25 | 20 | 54 | 1 | | 24 | 29 | 45 | 1 | | | | | | |
| 07/11/74 | 5050 | 21.96 | 6.8 | 72 F | 7.6 | 900 | 48 | 25 | 116 | -- | 0 | 154 | 108 | 153 | -- | .30 | -- | 594 | 225 | | |
| 1020 | 5050 | | 77 | 22 C | 8.1 | 997 | 2.40 | 2.11 | 5.05 | | .00 | 2.52 | 2.25 | 4.31 | | | -- | 527 | 100 | 3.4 | |
| | | | | | | | 25 | 22 | 53 | | | 28 | 25 | 47 | | | | | | | |
| 08/21/74 | 5050 | | | 75.2F | 7.4 | 1100 | 51 | 26 | 133 | 4.2 | 0 | 169 | 125 | 178 | 9.2 | .30 | -- | 653 | 236 | | |
| 1030 | 5050 | | | 24.0C | 7.4 | 1130 | 2.54 | 2.14 | 5.79 | .11 | .00 | 2.77 | 2.60 | 5.02 | .15 | | 23.0 | 633 | 96 | 3.8 | |
| | | | | | | | 24 | 20 | 55 | 1 | | 26 | 25 | 48 | 1 | | | | | | |
| 09/16/74 | 5050 | 21.09 | 6.8 | 71.6F | 8.0 | 1160 | 54 | 30 | 150 | -- | 0 | 191 | 154 | 200 | 4.7 | .60 | -- | 718 | 259 | | |
| 1000 | 5050 | | 77 | 22.0C | 7.8 | 1260 | 2.69 | 2.48 | 6.53 | | .00 | 3.13 | 3.21 | 5.64 | .08 | | -- | 687 | 102 | 4.1 | |
| | | | | | | | 23 | 21 | 56 | | | 26 | 27 | 47 | 1 | | | | | | |
| | RO | 0770.00 | | | | DELTA MENDOTA CANAL TO MENDOTA POOL | | | | | | | | | | | | | | | |
| 03/26/74 | 5050 | 15.20 | 9.8 | 59 F | 7.5 | 380 | 23 | 10 | 36 | -- | 0 | 79 | -- | 44 | 3.4 | .10 | -- | 230 | 101 | | |
| 0830 | 5050 | | 97 | 15 C | 7.6 | 400 | 1.15 | .87 | 1.57 | | .00 | 1.29 | | 1.24 | .05 | | -- | | 37 | 1.6 | |
| | | | | | | | 32 | 24 | 44 | | | 50 | | 48 | 2 | | | | | | |
| 07/12/74 | 5050 | 15.00 | 8.1 | 73 F | 7.4 | 195 | 13 | 7.2 | 18 | -- | 0 | 60 | 18 | 18 | -- | .10 | -- | 133 | 62 | | |
| 0940 | 5050 | | 94 | 23 C | 8.0 | 203 | .65 | .59 | .78 | | .00 | .98 | .37 | .51 | | | -- | 104 | 13 | 1.0 | T |
| | | | | | | | 32 | 29 | 39 | | | 53 | 20 | 27 | | | | | | | |
| | RO | 3115.00 | | | | STANISLAUS RIVER AT KOETITZ RANCH | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | 33.55 | 11.2 | 54 F | 7.6 | 75 | 8.6 | 4.0 | 3.9 | -- | 0 | 45 | -- | 1.4 | 1.8 | .00 | -- | 68 | 38 | | Ex |
| 1200 | 5050 | | 104 | 12 C | 7.7 | 96 | .43 | .33 | .17 | | .00 | .74 | | .04 | .03 | | -- | | 1 | 0.3 | |
| | | | | | | | 46 | 35 | 18 | | | 91 | | 5 | 4 | | | | | | |
| 07/12/74 | 5050 | 29.68 | 8.4 | 68 F | 7.4 | 150 | 14 | 7.1 | 8.4 | -- | 0 | 75 | 5.6 | 5.4 | -- | .00 | -- | 115 | 64 | | |
| 0645 | 5050 | | 92 | 20 C | 7.5 | 169 | .70 | .58 | .37 | | .00 | 1.23 | .12 | .15 | | | -- | 77 | 3 | 0.5 | T |
| | | | | | | | 42 | 35 | 22 | | | 82 | 8 | 10 | | | | | | | |
| 09/16/74 | 5050 | 28.68 | 8.8 | 73.4F | 7.3 | 160 | 3.7 | .4 | 3.8 | -- | 0 | 16 | 2.3 | 2.5 | 1.1 | .00 | -- | 31 | 11 | | EX |
| 1420 | 5050 | | 102 | 23.0C | 6.9 | 44 | .18 | .03 | .17 | | .00 | .26 | .05 | .07 | .02 | | -- | 22 | 0 | 0.5 | T |
| | | | | | | | 47 | 8 | 45 | | | 65 | 13 | 18 | 5 | | | | | | |
| | RO | 3185.00 | | | | STANISLAUS RIVER AT KNIGHTS FERRY | | | | | | | | | | | | | | | |
| 09/26/74 | 5050 | | 8.7 | 69.4F | 7.3 | 65 | 6.7 | 3.2 | 3.0 | -- | 0 | 39 | 2.3 | .4 | -- | .00 | -- | 63 | 30 | | E |
| 0650 | 5050 | | 96 | 20.2C | 7.4 | 72 | .33 | .26 | .13 | | .00 | .64 | .05 | .01 | | | -- | 35 | 0 | 0.2 | T |
| | | | | | | | 46 | 36 | 18 | | | 91 | 7 | 1 | | | | | | | |
| | RO | 4105.00 | | | | TUOLUMNE RIVER AT TUOLUMNE CITY | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | 27.35 | 10.4 | 57 F | 7.4 | 160 | 12 | 5.4 | 18 | -- | 0 | 47 | -- | 32 | 2.3 | .00 | -- | 123 | 52 | | X |
| 1130 | 5050 | | 100 | 14 C | 7.7 | 201 | .60 | .44 | .78 | | .00 | .77 | | .90 | .04 | | -- | | 14 | 1.1 | |
| | | | | | | | 33 | 24 | 43 | | | 45 | | 53 | 2 | | | | | | |
| 07/11/74 | 5050 | 18.68 | 8.5 | 74.3F | 7.7 | 400 | 26 | 8.8 | 41 | -- | 0 | 92 | 1.5 | 78 | -- | .10 | -- | 262 | 101 | | |
| 1300 | 5050 | | 94 | 23.5C | 7.3 | 446 | 1.30 | .72 | 1.78 | | .00 | 1.51 | .03 | 2.20 | | | -- | 201 | 26 | 1.8 | T |
| | | | | | | | 34 | 19 | 47 | | | 40 | 1 | 58 | | | | | | | |
| 09/16/74 | 5050 | 25.66 | 8.7 | 68.0F | 7.2 | 200 | 31 | 15 | 74 | -- | 0 | 123 | 60 | 94 | 6.7 | .20 | -- | 369 | 143 | | X |
| 1345 | 5050 | | 95 | 20.0C | 7.8 | 667 | 1.55 | 1.31 | 3.22 | | .00 | 2.02 | 1.25 | 2.65 | .11 | | -- | 342 | 42 | 2.7 | |
| | | | | | | | 25 | 22 | 53 | | | 33 | 21 | 44 | 2 | | | | | | |
| | RO | 4150.00 | | | | TUOLUMNE RIVER AT HICKMAN BRIDGE NR WATERFORD | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | 70.95 | 12.9 | 61 F | 8.0 | 130 | 7.7 | 3.6 | 16 | -- | 0 | 48 | -- | 20 | .0 | .00 | -- | 88 | 34 | | |
| 1400 | 5050 | | 131 | 16 C | 7.7 | 153 | .38 | .30 | .70 | | .00 | .80 | | .56 | .00 | | -- | | 0 | 1.2 | |
| | | | | | | | 28 | 22 | 51 | | | 58 | | 41 | | | | | | | |
| | RO | 4175.00 | | | | TUOLUMNE RIVER AT LA GRANGE BRIDGE | | | | | | | | | | | | | | | |
| 03/14/74 | 5050 | | 11.8 | 52 F | 7.0 | 40 | 5.1 | 1.8 | 2.2 | -- | 0 | 24 | -- | .5 | .6 | .00 | -- | 38 | 20 | | EX |
| 1235 | 5050 | | 108 | 11 C | 7.8 | 51 | .25 | .15 | .10 | | .00 | .39 | | .01 | .01 | | -- | | 1 | 0.2 | |
| | | | | | | | 50 | 30 | 20 | | | 95 | | 2 | 2 | | | | | | |
| 09/11/74 | 5050 | | 11.2 | 56.1F | 6.9 | 34 | 3.6 | 1.4 | 2.1 | -- | 0 | 22 | .6 | 1.0 | -- | .10 | -- | 38 | 15 | | Ex |
| 1735 | 5050 | | 107 | 13.4C | 7.1 | 45 | .18 | .12 | .09 | | .00 | .36 | .01 | .03 | | | -- | 20 | 0 | 0.2 | T |
| | | | | | | | 46 | 31 | 23 | | | 90 | 3 | 8 | | | | | | | |
| | RO | 5131.00 | | | | MERCED RIVER AT MILLIKEN BRIDGE | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | | 10.5 | 52 F | 7.2 | 60 | 6.8 | 2.9 | 3.9 | -- | 0 | 33 | -- | 1.9 | 1.6 | .00 | -- | 50 | 29 | | |
| 0745 | 5050 | | 95 | 11 C | 7.5 | 75 | .34 | .24 | .17 | | .00 | .54 | | .05 | .03 | | -- | | 2 | 0.3 | |
| | | | | | | | 45 | 32 | 23 | | | 87 | | 8 | 5 | | | | | | |
| 07/11/74 | 5050 | | 9.2 | 70 F | 7.2 | 105 | 8.9 | 4.1 | 8.2 | -- | 0 | 48 | 4.9 | 5.7 | -- | .00 | -- | 82 | 39 | | E |
| 1050 | 5050 | | 103 | 21 C | 7.3 | 115 | .44 | .34 | .36 | | .00 | .79 | .10 | .16 | | | -- | 55 | 0 | 0.6 | T |
| | | | | | | | 39 | 30 | 32 | | | 75 | 10 | 15 | | | | | | | |
| 09/16/74 | 5050 | | 9.1 | 71.6F | 7.3 | 110 | 9.4 | 3.8 | 9.0 | -- | 0 | 50 | 6.9 | 3.2 | 3.9 | .00 | -- | 75 | 39 | | |
| 1215 | 5050 | | 104 | 22.0C | 7.3 | 120 | .47 | .31 | .39 | | .00 | .82 | .14 | .09 | .06 | | -- | 61 | 0 | 0.6 | |
| | | | | | | | 40 | 26 | 33 | | | 74 | 13 | 8 | 5 | | | | | | |
| | RO | 5166.50 | | | | CANAL CREEK AT OAKDALE ROAD | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 11.7 | 62 F | 6.8 | | 15 | 4.5 | 4.7 | -- | 0 | 81 | -- | 4.7 | -- | .20 | -- | | 56 | | |
| 1315 | 5050 | .1 | 120 | 17 C | 6.9 | 168 | .75 | .37 | .20 | | .00 | 1.33 | | .13 | | | -- | | 0 | 0.3 | |
| | | | | | | | 57 | 28 | 15 | | | | | | | | | | | | |
| 03/27/74 | 5050 | | 11.7 | 55.0F | 7.2 | | 5.0 | 1.9 | 2.2 | -- | 0 | 24 | 2.3 | 1.3 | -- | .00 | -- | 42 | 20 | | E |
| 1335 | 5050 | 50 | 110 | 12.8C | 8.0 | 54 | .25 | .16 | .10 | | .00 | .39 | .07 | .04 | | | -- | 26 | 1 | 0.2 | T |
| | | | | | | | 49 | 31 | 20 | | | 78 | 14 | 8 | | | | | | | |

| DATE TIME | SAMPLER LAB | G.M. O DEPTH | DO SAT | TEMP | FIELD LABORATORY PH | EC | CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCH | TURB SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE | | | | | | | | | MILLIGRAMS PER LITER | | | | | |
| **B0 5166.50** | | | | | **CANAL CREEK AT OAKDALE ROAD (Continued)** | | | | | | | | | | | | | | | | |
| 04/24/74 | 5050 | | 10.5 | 53.5F | 7.3 | | 5.1 | 2.2 | 2.2 | -- | 0 | 23 | 1.6 | .0 | -- | .00 | -- | 38 | 20 | | E |
| 1400 | 5050 | 50 | 97 | 11.9C | 7.3 | 51 | .25 | .18 | .10 | | .00 | .38 | .03 | .00 | | | -- | 22 | 3 | 0.2 | T |
| | | | | | | | 47 | 34 | 19 | | | 93 | 7 | | | | | | | | |
| 05/23/74 | 5050 | | 9.7 | 57.0F | 7.3 | | 4.8 | 1.9 | 2.5 | -- | 0 | 25 | 3.4 | 1.8 | -- | .10 | -- | 39 | 20 | | E |
| 1230 | 5050 | 60 | 94 | 13.9C | 7.7 | 52 | .24 | .16 | .11 | | .00 | .41 | .07 | .05 | | | -- | 27 | 0 | 0.2 | T |
| | | | | | | | 47 | 31 | 22 | | | 77 | 13 | 9 | | | | | | | |
| 06/26/74 | 5050 | | 11.5 | 57 F | 7.2 | | 3.5 | 2.3 | 2.6 | -- | 0 | 22 | 2.6 | 1.5 | -- | .00 | -- | 24 | 18 | | |
| 1000 | 5050 | | 111 | 14 C | 7.3 | 49 | .17 | .19 | .11 | | .00 | .36 | .05 | .04 | | | -- | 23 | 0 | 0.3 | |
| | | | | | | | 36 | 40 | 23 | | | 80 | 11 | 9 | | | | | | | |
| **B0 6369.50** | | | | | **DUTCHMAN CREEK AT BAXTER ROAD** | | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 9.1 | 53 F | 7.6 | | 22 | 14 | 30 | -- | 0 | 171 | -- | 16 | -- | .00 | -- | | 111 | | |
| 0700 | 5050 | .1 | 84 | 12 C | 7.6 | 361 | 1.10 | 1.15 | 1.31 | | .00 | 2.80 | | .45 | | | -- | | 0 | 1.2 | |
| | | | | | | | 31 | 32 | 37 | | | | | | | | | | | | |
| 03/27/74 | 5050 | | 5.9 | 58.0F | 7.4 | | 20 | 15 | 30 | -- | 0 | 179 | 10 | 13 | -- | .00 | -- | 190 | 111 | | |
| 0715 | 5050 | .1 | 58 | 14.4C | 7.9 | 352 | 1.00 | 1.23 | 1.31 | | .00 | 2.93 | .21 | .37 | | | -- | 176 | 0 | 1.2 | |
| | | | | | | | 28 | 35 | 37 | | | 83 | 6 | 11 | | | | | | | |
| **B0 6399.50** | | | | | **DEADMAN CREEK AT BAXTER ROAD** | | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 9.9 | 54 F | 7.3 | | 20 | 15 | 26 | -- | 0 | 154 | 12 | 13 | -- | .00 | -- | | 111 | | |
| 0745 | 5050 | .2 | 92 | 12 C | 8.0 | 309 | 1.00 | 1.23 | 1.13 | | .00 | 2.52 | .25 | .37 | | | -- | 162 | 0 | 1.1 | |
| | | | | | | | 30 | 37 | 34 | | | 80 | 8 | 12 | | | | | | | |
| 03/27/74 | 5050 | | 9.6 | 59.0F | 7.5 | | 17 | 13 | 25 | -- | 0 | 150 | 7.2 | 10 | -- | .00 | -- | 168 | 95 | | |
| 0730 | 5050 | .1 | 95 | 15.0C | 8.0 | 290 | .85 | 1.07 | 1.09 | | .00 | 2.46 | .15 | .28 | | | -- | 146 | 0 | 1.1 | |
| | | | | | | | 28 | 36 | 36 | | | 85 | 5 | 10 | | | | | | | |
| 04/24/74 | 5050 | | 8.2 | 57.0F | 7.7 | | 18 | 14 | 25 | -- | 0 | 155 | 6.2 | 9.5 | -- | .00 | -- | 171 | 99 | | |
| 0745 | 5050 | .1 | 79 | 13.9C | 7.8 | 290 | .90 | 1.15 | 1.09 | | .00 | 2.54 | .13 | .27 | | | -- | 149 | 0 | 1.1 | |
| | | | | | | | 29 | 37 | 35 | | | 86 | 4 | 9 | | | | | | | |
| **B0 7020.00** | | | | | **SAN JOAQUIN RIVER NEAR VERNALIS** | | | | | | | | | | | | | | | | |
| 10/18/73 | 5050 | 12.17 | 7.7 | 64.4F | 7.2 | 390 | 23 | 11 | 53 | 3.5 | 0 | 105 | 42 | 70 | -- | .02 | -- | | 100 | 200 | EX |
| 0745 | 5000 | | 81 | 18.0C | 7.7 | 494 | 1.15 | .90 | 2.31 | .09 | .00 | 1.72 | .87 | 1.97 | | | -- | 254 | 17 | 2.3 | T |
| | | | | | | | 26 | 20 | 52 | 2 | | 38 | 19 | 43 | | | | | | | |
| 11/16/73 | 5050 | 13.50 | 7.8 | 55.4F | 7.4 | 500 | 31 | 15 | 70 | 3.3 | 0 | 130 | 49 | 93 | -- | .25 | .1 | | 140 | 200 | |
| 0830 | 5000 | | 74 | 13.0C | | | 1.55 | 1.23 | 3.05 | .08 | .00 | 2.13 | 1.02 | 2.62 | | | 19.0 | 344 | 33 | 2.6 | |
| | | | | | | | 26 | 21 | 52 | 1 | | 37 | 18 | 45 | | | | | | | |
| 12/19/73 | 5050 | 12.67 | 9.9 | 45.2F | 7.2 | 350 | 20 | 9.1 | 41 | 2.1 | 0 | 78 | 40 | 54 | -- | .17 | .2 | | 88 | 90 | |
| 0900 | 5000 | | 85 | 9.0C | | | 1.00 | .75 | 1.78 | .05 | .00 | 1.29 | .83 | 1.52 | | | 14.0 | 219 | 24 | 1.9 | |
| | | | | | | | 28 | 21 | 50 | 1 | | 35 | 23 | 42 | | | | | | | |
| 01/30/74 | 5050 | 12.42 | 11.0 | 47.3F | 8.2 | 150 | 19 | 7.6 | 32 | 1.8 | 0 | 68 | 34 | 38 | -- | .20 | .0 | | 79 | 200 | |
| 0800 | 5000 | | 94 | 8.5C | | 317 | .95 | .63 | 1.39 | .05 | .00 | 1.11 | .71 | 1.07 | | | 14.0 | 180 | 24 | 1.6 | |
| | | | | | | | 31 | 21 | 46 | 2 | | 38 | 25 | 37 | | | | | | | |
| 02/22/74 | 5050 | 13.59 | 10.7 | 48.2F | 7.3 | 350 | 25 | 12 | 55 | 2.3 | -- | 90 | 52 | 70 | -- | .23 | .2 | | 110 | 200 | |
| 0740 | 5000 | | 92 | 9.0C | | | 1.25 | .99 | 2.39 | .06 | | 1.48 | 1.08 | 1.97 | | | 16.0 | | | 2.3 | |
| | | | | | | | 27 | 21 | 51 | 1 | | | | | | | | | | | |
| 03/21/74 | 5050 | 13.90 | 9.8 | 55.4F | 7.2 | 500 | 28 | 14 | 61 | 2.6 | -- | 92 | 71 | 75 | -- | .28 | .3 | | 130 | 200 | |
| 0730 | 5000 | | 91 | 13.0C | | | 1.40 | 1.15 | 2.65 | .07 | | 1.51 | 1.48 | 2.12 | | | 16.0 | | | 2.4 | |
| | | | | | | | 27 | 22 | 50 | 1 | | | | | | | | | | | |
| 04/18/74 | 5050 | 15.32 | 9.7 | 57.2F | 7.7 | 400 | 24 | 12 | 53 | 2.1 | -- | 75 | 63 | 61 | -- | .29 | .0 | | 110 | 200 | |
| 0730 | 5000 | | 94 | 14.0C | | | 1.20 | .99 | 2.31 | .05 | | 1.23 | 1.31 | 1.72 | | | 16.0 | | | 2.2 | |
| | | | | | | | 26 | 22 | 51 | 1 | | | | | | | | | | | |
| 05/24/74 | 5050 | 12.40 | 8.5 | 64 F | 7.6 | 500 | 31 | 15 | 60 | 2.7 | -- | 115 | 50 | 82 | -- | .21 | .2 | | 140 | 400 | |
| 0800 | 5000 | | 93 | 20 C | | | 1.55 | 1.23 | 2.61 | .07 | | 1.88 | 1.04 | 2.31 | | | 17.0 | | | 2.2 | |
| | | | | | | | 28 | 23 | 48 | 1 | | | | | | | | | | | |
| 06/20/74 | 5050 | 13.38 | 8.0 | 58 F | 7.2 | 400 | 23 | 10 | 43 | 2.6 | -- | 88 | 38 | 53 | -- | .16 | .1 | | 99 | 300 | |
| 0845 | 5000 | | 87 | 26 C | | | 1.15 | .82 | 1.87 | .07 | | 1.44 | .79 | 1.49 | | | 16.0 | | | 1.9 | |
| | | | | | | | 29 | 21 | 48 | 2 | | | | | | | | | | | |
| 07/25/74 | 5050 | 10.55 | 7.2 | 81 F | 7.6 | 900 | 41 | 20 | 93 | 4.0 | -- | 153 | 63 | 130 | -- | .28 | .1 | | 190 | 40A | |
| 0735 | 5000 | | 89 | 27 C | | | 2.05 | 1.64 | 3.61 | .10 | | 2.51 | 1.31 | 3.67 | | | 20.0 | | | 2.7 | |
| | | | | | | | 29 | 22 | 49 | 1 | | | | | | | | | | | |
| 08/22/74 | 5050 | 10.95 | 7.4 | 73 F | 7.2 | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 378 | | | |
| 0750 | 5050 | | 86 | 23 C | | | | | | | | | | | | | -- | | | | |
| **B0 7040.00** | | | | | **SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE** | | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | 14.72 | 9.8 | 58 F | 7.4 | 395 | 25 | 13 | 57 | -- | 0 | 90 | -- | 62 | 7.2 | .30 | -- | 309 | 116 | | X |
| 1245 | 5050 | | 96 | 14 C | 7.5 | 513 | 1.25 | 1.07 | 2.48 | | .00 | 1.48 | | 1.75 | .12 | | -- | | 42 | 2.3 | |
| | | | | | | | 26 | 22 | 52 | | | 44 | | 52 | 4 | | | | | | |
| 07/11/74 | 5050 | 15.37 | 9.9 | 72.5F | 8.1 | 800 | 40 | 17 | 86 | -- | 0 | 143 | 72 | 120 | -- | .20 | -- | 460 | 173 | | |
| 1400 | 5050 | | 113 | 22.5C | 8.2 | 791 | 2.00 | 1.46 | 3.74 | | .00 | 2.34 | 1.50 | 3.38 | | | -- | 406 | 56 | 2.8 | |
| | | | | | | | 28 | 20 | 52 | | | 32 | 21 | 47 | | | | | | | |
| 09/16/74 | 5050 | 15.91 | 9.5 | 71.6F | 7.5 | 620 | 14 | 4.9 | 20 | -- | 0 | 72 | 4.9 | 29 | 2.1 | .00 | -- | 130 | 55 | | X |
| 1500 | 5050 | | 108 | 22.0C | 7.3 | 225 | .70 | .40 | .87 | | .00 | 1.18 | .10 | .82 | .03 | | -- | 110 | 0 | 1.2 | |
| | | | | | | | 36 | 20 | 44 | | | 55 | 5 | 38 | 1 | | | | | | |
| **B0 7080.00** | | | | | **SAN JOAQUIN RIVER NEAR GRAYSON** | | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | | 9.3 | 57 F | 7.4 | 440 | 29 | 19 | 73 | -- | 0 | 115 | -- | 78 | 10.0 | .50 | -- | 408 | 154 | | X |
| 0915 | 5050 | | 90 | 14 C | 7.5 | 684 | 1.45 | 1.63 | 3.18 | | .00 | 1.88 | | 2.20 | .16 | | -- | | 60 | 2.6 | |
| | | | | | | | 23 | 26 | 51 | | | 44 | | 52 | 4 | | | | | | |
| 07/11/74 | 5050 | | 9.8 | 72.5F | 8.1 | 900 | 42 | 23 | 103 | -- | 0 | 163 | 96 | 125 | -- | .30 | -- | 520 | 201 | | |
| 1230 | 5050 | | 112 | 22.5C | 8.1 | 885 | 2.10 | 1.92 | 4.48 | | .00 | 2.67 | 2.00 | 3.53 | | | -- | 470 | 68 | 3.2 | |
| | | | | | | | 25 | 23 | 53 | | | 33 | 24 | 43 | | | | | | | |
| 09/16/74 | 5050 | | 8.6 | 73.4F | 7.4 | 1000 | 46 | 24 | 121 | -- | 0 | 188 | 110 | 147 | 11.0 | .30 | -- | 584 | 215 | | |
| 1315 | 5050 | | 100 | 23.0C | 7.9 | 1020 | 2.30 | 2.00 | 5.26 | | .00 | 3.08 | 2.29 | 4.15 | .18 | | -- | 552 | 61 | 3.6 | |
| | | | | | | | 24 | 21 | 55 | | | 32 | 24 | 43 | 2 | | | | | | |

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

| DATE TIME | SAMPLER LAB | G.H. D DEPTH | DO SAT | TEMP | FIELD LABORATORY PH | EC | CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCM | TURB SAR | PEM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER | | | | | | | | | MILLIGRAMS PER LITER | | | | | |
| | | | | | | | MILLIEQUIVALENTS PER LITER | | | | | | | | | | | | | | |
| | | | | | | | PERCENT REACTANCE VALUE | | | | | | | | | | | | | | |
| | 80 | 7200.00 | | | SAN JOAQUIN RIVER AT PATTERSON BRIDGE | | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | 36.48 | 9.5 | 55 F | 7.5 | 525 | 29 | 20 | 78 | -- | 0 | 110 | -- | 79 | 7.0 | .40 | -- | 419 | 156 | | X |
| 0845 | 5050 | | 90 | 13 C | 7.6 | 689 | 1.45 | 1.67 | 3.39 | | .00 | 1.80 | | 2.23 | .11 | | -- | | 66 | 2.7 | |
| | | | | | | | 22 | 26 | 52 | | | 43 | | 54 | 3 | | | | | | |
| | 80 | 7250.00 | | | SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE | | | | | | | | | | | | | | | | |
| 03/12/74 | 5050 | 42.50 | 9.7 | 56 F | 7.4 | 525 | 32 | 18 | 77 | -- | 0 | 106 | -- | 82 | 7.2 | .50 | -- | 408 | 154 | | X |
| 0830 | 5050 | | 83 | 13 C | 7.8 | 690 | 1.60 | 1.48 | 3.35 | | .00 | 1.74 | | 2.31 | .12 | | -- | | 67 | 2.7 | |
| | | | | | | | 25 | 23 | 52 | | | 42 | | 55 | 3 | | | | | | |
| | 80 | 7375.00 | | | SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE | | | | | | | | | | | | | | | | |
| 03/12/74 | 5050 | 54.25 | 9.7 | 63 F | 7.6 | 680 | 40 | 20 | 90 | -- | 0 | 114 | -- | 100 | 9.2 | .60 | -- | 481 | 184 | | |
| 1440 | 5050 | | 100 | 17 C | 7.4 | 808 | 2.00 | 1.68 | 3.92 | | .00 | 1.87 | | 2.82 | .15 | | -- | | 91 | 2.9 | |
| | | | | | | | 26 | 22 | 52 | | | 30 | | 58 | 3 | | | | | | |
| 05/23/74 | 5050 | | | 64.8F | 7.3 | 1100 | 57 | 28 | 152 | 4.9 | 0 | 173 | 142 | 202 | 5.9 | .40 | -- | 692 | 260 | | |
| 1000 | 5050 | | | 21.0C | 7.5 | 1220 | 2.84 | 2.30 | 6.61 | .13 | .00 | 2.84 | 2.96 | 5.70 | .10 | | 17.0 | 694 | 115 | 4.1 | |
| | | | | | | | 24 | 19 | 56 | 1 | | 24 | 26 | 49 | 1 | | | | | | |
| 07/11/74 | 5050 | 56.42 | 5.6 | 61.7F | 8.0 | 1100 | 51 | 26 | 145 | -- | 0 | 172 | 112 | 193 | -- | .30 | -- | 680 | 238 | | |
| 0940 | 5050 | | 84 | 16.5C | 7.3 | 1170 | 2.54 | 2.21 | 6.31 | | .00 | 2.82 | 2.33 | 5.44 | | | -- | 613 | 97 | 4.1 | |
| | | | | | | | 23 | 20 | 57 | | | 27 | 22 | 51 | | | | | | | |
| 08/21/74 | 5050 | | | 77.0F | 8.0 | 1200 | 56 | 29 | 146 | 4.5 | 0 | 186 | 118 | 207 | 6.9 | .30 | -- | 706 | 258 | | |
| 1055 | 5050 | | | 25.0C | 7.5 | 1240 | 2.79 | 2.38 | 6.35 | .12 | .00 | 3.05 | 2.46 | 5.84 | .11 | | 23.0 | 682 | 106 | 3.9 | |
| | | | | | | | 24 | 20 | 55 | 1 | | 27 | 21 | 51 | 1 | | | | | | |
| 09/16/74 | 5050 | 55.55 | 10.0 | 73.4F | 8.0 | 1400 | 59 | 32 | 165 | -- | 0 | 206 | 135 | 239 | 3.3 | .40 | -- | 772 | 281 | | |
| 1030 | 5050 | | 116 | 23.0C | 8.1 | 1370 | 2.94 | 2.67 | 7.18 | | .00 | 3.38 | 2.81 | 6.71 | .05 | | -- | 734 | 112 | 4.3 | |
| | | | | | | | 23 | 21 | 56 | | | 26 | 22 | 52 | | | | | | | |
| | 80 | 7710.00 | | | SAN JOAQUIN RIVER NEAR MENDOTA | | | | | | | | | | | | | | | | |
| 03/26/74 | 5050 | 2.98 | 13.1 | 54 F | 7.4 | 200 | 28 | 17 | 61 | -- | 0 | 91 | -- | 76 | 5.6 | .30 | -- | 345 | 143 | | X |
| 0810 | 5050 | | 100 | 15 C | 7.7 | 593 | 1.40 | 1.46 | 2.65 | | .00 | 1.49 | | 2.14 | .09 | | -- | | 69 | 2.2 | |
| | | | | | | | 25 | 26 | 48 | | | 40 | | 58 | 2 | | | | | | |
| 07/12/74 | 5050 | 4.10 | 4.8 | 73 F | 8.0 | 700 | 34 | 19 | 80 | -- | 0 | 123 | 67 | 113 | -- | .30 | -- | 420 | 170 | | |
| 1015 | 5050 | | 102 | 23 C | 7.7 | 733 | 1.80 | 1.60 | 3.48 | | .00 | 2.02 | 1.39 | 3.19 | | | -- | 376 | 69 | 2.7 | |
| | | | | | | | 26 | 23 | 51 | | | 31 | 21 | 48 | | | | | | | |
| | 80 | 7885.00 | | | SAN JOAQUIN RIVER AT FRIANT DAM | | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | 1.97 | 8.1 | 49.0F | 7.2 | | 5.7 | .9 | 5.4 | -- | 0 | 26 | -- | 2.4 | 1.6 | .00 | -- | 56 | 18 | | E |
| 1055 | 5050 | | 71 | 9.4C | 7.5 | 65 | .28 | .07 | .23 | | .00 | .43 | | .07 | .03 | | -- | | 0 | 0.6 | |
| | | | | | | | 48 | 12 | 40 | | | 81 | | 13 | 6 | | | | | | |
| 07/18/74 | 5050 | 2.40 | 13.0 | 58.1F | 7.2 | 25 | 3.0 | .6 | 4.4 | -- | 0 | 14 | .0 | 3.8 | -- | .00 | -- | 33 | 10 | | EX |
| 1130 | 5050 | | 128 | 14.5C | 7.5 | 39 | .15 | .05 | .15 | | .00 | .23 | .00 | .11 | | | -- | 18 | 0 | 0.5 | T |
| | | | | | | | 43 | 14 | 43 | | | 68 | | 32 | | | | | | | |
| 09/17/74 | 5050 | 2.12 | 12.5 | 56.3F | 7.1 | 35 | 15 | 6.2 | 9.2 | -- | 0 | 80 | 8.2 | 4.2 | 4.1 | .00 | -- | 108 | 63 | | X |
| 1120 | 5050 | | 121 | 13.5C | 7.8 | 174 | .75 | .51 | .40 | | .00 | 1.31 | .17 | .12 | .07 | | -- | 86 | 0 | 0.5 | T |
| | | | | | | | 45 | 31 | 24 | | | 78 | 10 | 7 | 4 | | | | | | |
| | 83 | 1158.10 | | | STANISLAUS RIVER BELOW TULLOCK DAM | | | | | | | | | | | | | | | | |
| 03/14/74 | 5050 | 12.30 | 12.9 | 45 F | 7.3 | 50 | 6.6 | 3.5 | 2.5 | -- | 0 | 36 | -- | .0 | .5 | .00 | -- | 56 | 31 | | EX |
| 0800 | 5050 | | 109 | 8 C | 7.9 | 71 | .33 | .29 | .11 | | .00 | .59 | | .00 | .01 | | -- | | 2 | 0.2 | |
| | | | | | | | 45 | 40 | 15 | | | 98 | | | 2 | | | | | | |
| 07/24/74 | 5050 | 15.72 | 3.2 | 75 F | 7.2 | 90 | 8.6 | 3.8 | 4.2 | -- | 0 | 44 | 1.2 | 4.7 | -- | .00 | -- | 66 | 37 | | E |
| 0730 | 5050 | | 110 | 24 C | 7.5 | 92 | .43 | .31 | .18 | | .00 | .72 | .02 | .13 | | | -- | 44 | 1 | 0.3 | T |
| | | | | | | | 47 | 34 | 20 | | | 83 | 2 | 15 | | | | | | | |
| | 83 | 1340.50 | | | STANISLAUS RIVER ABOVE MELONES RESERVOIR | | | | | | | | | | | | | | | | |
| 03/14/74 | 5050 | | 12.4 | 47 F | 7.2 | 35 | 6.4 | .5 | 2.2 | -- | 0 | 24 | -- | .0 | .0 | .00 | -- | 47 | 18 | | EX |
| 0915 | 5050 | | 113 | 8 C | 7.8 | 48 | .32 | .04 | .10 | | .00 | .39 | | .00 | .00 | | -- | | 0 | 0.2 | |
| | | | | | | | 70 | 9 | 22 | | | 100 | | | | | | | | | |
| | 83 | 1400.50 | | | STANISLAUS RIVER AT PARROTTS FERRY BRIDGE | | | | | | | | | | | | | | | | |
| 09/25/74 | 5050 | | 10.2 | 61.2F | 7.6 | 36 | 4.4 | 1.5 | 2.0 | -- | 0 | 22 | 1.3 | .0 | -- | .00 | -- | 40 | 17 | | E |
| 1715 | 5050 | | 106 | 16.2C | 7.3 | 41 | .22 | .12 | .09 | | .00 | .36 | .03 | .00 | | | -- | 20 | 0 | 0.2 | T |
| | | | | | | | 51 | 28 | 21 | | | 92 | 8 | | | | | | | | |
| | 83 | 2110.10 | | | STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PAR | | | | | | | | | | | | | | | | |
| 09/25/74 | 5050 | | 9.5 | 62.6F | 7.2 | 33 | 3.7 | .9 | 2.1 | -- | 0 | 18 | 1.6 | .4 | -- | .00 | -- | 33 | 13 | | E |
| 1515 | 5050 | | 100 | 17.0C | 7.1 | 34 | .18 | .07 | .09 | | .00 | .30 | .03 | .01 | | | -- | 18 | 0 | 0.3 | T |
| | | | | | | | 53 | 21 | 26 | | | 88 | 9 | 3 | | | | | | | |
| | 83 | 3255.00 | | | STANISLAUS RIVER MIDDLE FORK AT BEARDSLEY | | | | | | | | | | | | | | | | |
| 09/25/74 | 5050 | | 10.1 | 57.2F | 7.3 | 40 | 4.8 | 1.5 | 2.1 | -- | 0 | 24 | 1.5 | .0 | -- | .00 | -- | 40 | 18 | | E |
| 0805 | 5050 | | 110 | 14.0C | 7.3 | 44 | .24 | .12 | .09 | | .00 | .39 | .03 | .00 | | | -- | 22 | 0 | 0.2 | T |
| | | | | | | | 53 | 27 | 20 | | | 93 | 7 | | | | | | | | |
| | 83 | 3480.10 | | | STANISLAUS RIVER MIDDLE FORK AT DARDANELLE | | | | | | | | | | | | | | | | |
| 09/25/74 | 5050 | | 9.7 | 52.2F | 7.3 | 50 | 8.1 | 1.6 | 3.0 | -- | 0 | 35 | 2.6 | .5 | -- | .00 | -- | 59 | 27 | | EX |
| 1020 | 5050 | | 109 | 11.2C | 7.4 | 67 | .40 | .13 | .13 | | .00 | .57 | .05 | .01 | | | -- | 33 | 0 | 0.3 | T |
| | | | | | | | 61 | 20 | 20 | | | 90 | 8 | 2 | | | | | | | |
| | 84 | 1232.50 | | | WOODS CREEK AT SLATE CREEK | | | | | | | | | | | | | | | | |
| 11/15/73 | 5050 | | 11.6 | 53.5F | 8.0 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 207 | | 8A | |
| 1230 | 5050 | | 102 | 11.9C | 7.9 | 356 | | | | | | | | | | | -- | | | | |
| | 84 | 1235.50 | | | WOODS CREEK BELOW JAMESTOWN STP | | | | | | | | | | | | | | | | |
| 11/15/73 | 5050 | | 10.5 | 52.0F | 7.8 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 208 | | 5A | |
| 1145 | 5050 | | 95 | 11.1C | 7.7 | 462 | | | | | | | | | | | -- | | | | |

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

| DATE TIME | SAMPLER LAB | G.H. Q DEPTH | DO SAT | TEMP | FIELD LABORATORY PH | EC | CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCM | TURB SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE | | | | | | | | | MILLIGRAMS PER LITER | | | | | |
| | R4 | 1236.50 | | | WOODS CREEK BELOW SONORA STP | | | | | | | | | | | | | | | | |
| 11/15/73 | 5050 | | 7.4 | 51.0F | 7.7 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 214 | | 9A | |
| 1130 | 5050 | | 66 | 10.5C | 7.3 | 380 | | | | | | | | | | | -- | | | | |
| | R4 | 1234.50 | | | WOODS CREEK AT COUNTY FAIRGROUNDS | | | | | | | | | | | | | | | | |
| 11/15/73 | 5050 | | 10.6 | 52.0F | 8.0 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 232 | | 1A | |
| 1000 | 5050 | | 96 | 11.1C | 7.9 | 489 | | | | | | | | | | | -- | | | | |
| | R4 | 1241.50 | | | WOODS CREEK AT JACK RAGE ROAD ABOVE SONORA | | | | | | | | | | | | | | | | |
| 11/15/73 | 5050 | | 8.2 | 56.0F | 7.4 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 216 | | 1A | |
| 0940 | 5050 | | 78 | 13.3C | 7.9 | 347 | | | | | | | | | | | -- | | | | |
| | R4 | 1265.50 | | | TUOLUMNE RIVER ABOVE DON PEDRO RESERVOIR | | | | | | | | | | | | | | | | |
| 03/14/74 | 5050 | | 12.6 | 50 F | 7.2 | 30 | 4.0 | .7 | 2.2 | -- | 0 | 18 | -- | .0 | .1 | .00 | -- | 39 | 13 | | Ex |
| 1030 | 5050 | | 114 | 10 C | 7.8 | 38 | .20 | .06 | .10 | | .00 | .30 | | .00 | .00 | | -- | | 0 | 0.3 | |
| | | | | | | | 56 | 17 | 28 | | | 100 | | | | | | | | | |
| 07/24/74 | 5050 | | 8.6 | 82 F | 7.3 | 55 | 4.1 | 2.4 | 1.7 | -- | 0 | 23 | .0 | 1.4 | -- | .00 | -- | 36 | 20 | | E |
| 0900 | 5050 | | 111 | 28 C | 7.3 | 50 | .20 | .20 | .07 | | .00 | .38 | .00 | .04 | | | -- | 21 | 1 | 0.2 | T |
| | | | | | | | 43 | 43 | 15 | | | 90 | | 10 | | | | | | | |
| | R4 | 1290.10 | | | TUOLUMNE RIVER AT WARDS FERRY BRIDGE | | | | | | | | | | | | | | | | |
| 09/11/74 | 5050 | | 9.6 | 80.6F | 7.7 | 60 | 4.6 | 2.1 | 1.8 | -- | 0 | 26 | 1.0 | .9 | -- | .00 | -- | 36 | 20 | | |
| 1500 | 5050 | | 123 | 27.0C | 7.0 | 52 | .23 | .17 | .08 | | .00 | .43 | .02 | .03 | | | -- | 23 | 0 | 0.2 | T |
| | | | | | | | 48 | 35 | 17 | | | 90 | 4 | 6 | | | | | | | |
| | R4 | 1680.00 | | | TUOLUMNE RIVER ABOVE EARLY INTAKE | | | | | | | | | | | | | | | | |
| 09/11/74 | 5050 | | 10.3 | 59.4F | 7.2 | 10 | .9 | .0 | .6 | -- | 0 | 6 | .0 | .0 | -- | .00 | -- | 12 | 2 | | Ex |
| 1215 | 5050 | | 110 | 15.2C | 6.7 | 15 | .04 | .00 | .03 | | .00 | .10 | .00 | .00 | | | -- | 4 | 0 | 0.2 | T |
| | | | | | | | 57 | | 43 | | | 100 | | | | | | | | | |
| | R4 | 1850.10 | | | TUOLUMNE RIVER AT TUOLUMNE MEADOWS | | | | | | | | | | | | | | | | |
| 09/11/74 | 5050 | | 9.9 | 55.4F | 7.1 | 28 | 1.6 | .0 | 2.5 | -- | 0 | 11 | .0 | 2.7 | -- | .00 | -- | 21 | 4 | | E |
| 0915 | 5050 | | 130 | 13.0C | 7.0 | 25 | .08 | .00 | .11 | | .00 | .18 | .00 | .08 | | | -- | 12 | 0 | 0.5 | T |
| | | | | | | | 42 | | 58 | | | 69 | | 31 | | | | | | | |
| | R5 | 1200.00 | | | MERCED RIVER BELOW EXCHEQUER DAM | | | | | | | | | | | | | | | | |
| 03/14/74 | 5050 | | 12.1 | 54.0F | 7.0 | 40 | 5.5 | 1.5 | 2.2 | -- | 0 | 23 | -- | 1.4 | .6 | .00 | -- | 43 | 20 | | EX |
| 1330 | 5050 | | 114 | 12.2C | 7.6 | 51 | .27 | .12 | .10 | | .00 | .38 | | .04 | .01 | | -- | | 1 | 0.2 | |
| | | | | | | | 55 | 24 | 20 | | | 88 | | 9 | 2 | | | | | | |
| 07/24/74 | 5050 | | 9.6 | 54.5F | 7.0 | 35 | 3.9 | 1.8 | 2.2 | -- | 0 | 19 | .6 | 1.9 | -- | .00 | -- | 34 | 17 | | EX |
| 1100 | 5050 | | 91 | 12.5C | 7.1 | 44 | .19 | .15 | .10 | | .00 | .31 | .01 | .05 | | | -- | 20 | 2 | 0.2 | T |
| | | | | | | | 43 | 34 | 23 | | | 84 | 3 | 14 | | | | | | | |
| | R5 | 1400.00 | | | MERCED RIVER ABOVE LAKE MCCLURE RESERVOIR | | | | | | | | | | | | | | | | |
| 03/15/74 | 5050 | 6.00 | 11.5 | 49 F | 7.1 | 28 | 4.2 | .6 | 2.2 | -- | 0 | 16 | -- | 1.4 | .0 | .00 | -- | 36 | 13 | | EX |
| 0930 | 5050 | | 103 | 9 C | 8.0 | 38 | .21 | .05 | .10 | | .00 | .26 | | .04 | .00 | | -- | | 0 | 0.3 | |
| | | | | | | | 58 | 14 | 28 | | | 87 | | 13 | | | | | | | |
| | R5 | 5152.10 | | | **BEAR CREEK ABOVE BEAR CREEK RESERVOIR** | | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 10.7 | 53 F | 7.5 | | 26 | 19 | 13 | -- | 0 | 164 | 14 | 9.5 | -- | .00 | -- | | 144 | | |
| 1100 | 5050 | 7.0 | 99 | 12 C | 7.9 | 316 | 1.30 | 1.56 | .57 | | .00 | 2.69 | .29 | .27 | | | -- | 162 | 9 | 0.5 | |
| | | | | | | | 38 | 45 | 17 | | | 83 | 9 | 8 | | | | | | | |
| 03/27/74 | 5050 | | 10.6 | 60.0F | 8.0 | | 16 | 22 | 12 | -- | 0 | 159 | 12 | 8.3 | -- | .00 | -- | 173 | 129 | | |
| 1100 | 5050 | 12 | 107 | 15.5C | 8.2 | 295 | .80 | 1.81 | .52 | | .00 | 2.61 | .25 | .23 | | | -- | 148 | 0 | 0.5 | |
| | | | | | | | 26 | 58 | 17 | | | 84 | 8 | 7 | | | | | | | |
| 04/24/74 | 5050 | | 10.5 | 64 F | 8.2 | | 25 | 18 | 10 | -- | 0 | 159 | 12 | 5.2 | -- | .00 | -- | 174 | 128 | | |
| 1200 | 5050 | 20 | 111 | 18 C | 8.0 | 285 | 1.25 | 1.48 | .44 | | .00 | 2.61 | .25 | .15 | | | -- | 148 | 6 | 0.4 | |
| | | | | | | | 39 | 47 | 14 | | | 87 | 8 | 5 | | | | | | | |
| 05/23/74 | 5050 | | 9.8 | 73.0F | 8.2 | | 29 | 21 | 13 | -- | 0 | 201 | 14 | 9.7 | -- | .10 | -- | 215 | 160 | | |
| 1030 | 5050 | 3.0 | 114 | 22.8C | 8.2 | 360 | 1.45 | 1.73 | .57 | | .00 | 3.29 | .29 | .27 | | | -- | 186 | 0 | 0.4 | |
| | | | | | | | 39 | 46 | 15 | | | 85 | 8 | 7 | | | | | | | |
| | R5 | 6152.50 | | | **BURNS CREEK AT MERCED-MARIPOSA COUNTY LINE** | | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 9.3 | 54 F | 7.5 | | 26 | 18 | 16 | -- | 0 | 152 | 28 | 10 | -- | .00 | -- | | 130 | | |
| 1010 | 5050 | 5.0 | 87 | 12 C | 8.1 | 331 | 1.30 | 1.48 | .70 | | .00 | 2.49 | .58 | .28 | | | -- | 173 | 15 | 0.6 | |
| | | | | | | | 37 | 43 | 20 | | | 74 | 17 | 8 | | | | | | | |
| 03/27/74 | 5050 | | 8.9 | 59.0F | 7.4 | | 22 | 18 | 15 | -- | 0 | 155 | 12 | 8.7 | -- | .00 | -- | 180 | 129 | | |
| 0845 | 5050 | 7.0 | 89 | 15.0C | 7.9 | 309 | 1.10 | 1.48 | .65 | | .00 | 2.54 | .25 | .25 | | | -- | 152 | 2 | 0.6 | |
| | | | | | | | 34 | 46 | 20 | | | 84 | 8 | 8 | | | | | | | |
| 04/24/74 | 5050 | | 8.2 | 59.0F | 7.6 | | 24 | 19 | 14 | -- | 0 | 156 | 19 | 7.1 | -- | .00 | -- | 179 | 132 | | |
| 0800 | 5050 | 5.0 | 82 | 15.0C | 7.6 | 309 | 1.20 | 1.56 | .61 | | .00 | 2.56 | .40 | .20 | | | -- | 160 | 10 | 0.5 | |
| | | | | | | | 36 | 46 | 18 | | | 81 | 13 | 6 | | | | | | | |
| 05/23/74 | 5050 | | 6.2 | 67.0F | 7.6 | | 24 | 19 | 19 | -- | 0 | 169 | 25 | 13 | -- | .10 | -- | 189 | 139 | | |
| 0745 | 5050 | .1 | 68 | 19.4C | 8.1 | 342 | 1.20 | 1.56 | .83 | | .00 | 2.77 | .52 | .37 | | | -- | 183 | 0 | 0.7 | |
| | | | | | | | 33 | 43 | 23 | | | 76 | 14 | 10 | | | | | | | |

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

| DATE TIME | SAMPLER LAB | G.H. G DEPTH | DO SAT | TEMP | FIELD LABORATORY PH | EC | CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCH | TURB SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE | | | | | | | | | MILLIGRAMS PER LITER | | | | | |
| | 46 | 2020.10 | | | OWENS CREEK ABOVE OWENS RESERVOIR | | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 11.0 | 54 F | 7.4 | | 37 | 23 | 20 | -- | 0 | 228 | 15 | 14 | -- | .00 | -- | | 189 | | |
| 0825 | 5050 | 2.5 | 103 | 12 C | 8.2 | 427 | 1.85 | 1.88 | .87 | | .00 | 3.74 | .31 | .39 | | | -- | 221 | 0 | 0.6 | |
| | | | | | | | 40 | 41 | 19 | | | 84 | 7 | 9 | | | | | | | |
| 03/27/74 | 5050 | | 12.2 | 63.0F | 8.2 | | 18 | 31 | 18 | -- | 4.0 | 213 | 12 | 11 | -- | .00 | -- | 233 | 172 | | |
| 1030 | 5050 | 3.0 | 128 | 17.2C | 8.5 | 399 | .90 | 2.55 | .78 | | .13 | 3.49 | .25 | .31 | | | -- | 199 | 0 | 0.6 | |
| | | | | | | | 21 | 60 | 18 | | | | | | | | | | | | |
| 04/24/74 | 5050 | | 16.2 | 66 F | 8.5 | | 31 | 21 | 18 | -- | 0 | 196 | 8.9 | 11 | -- | .00 | -- | 210 | 154 | | |
| 1125 | 5050 | 5.0 | 110 | 19 C | 8.3 | 367 | 1.55 | 1.73 | .78 | | .00 | 3.21 | .19 | .31 | | | -- | 186 | 4 | 0.6 | |
| | | | | | | | 38 | 43 | 19 | | | 87 | 5 | 8 | | | | | | | |
| 05/23/74 | 5050 | | 12.4 | 76.0F | 8.2 | | 28 | 23 | 22 | -- | 0 | .216 | 14 | 15 | -- | .00 | -- | 214 | 164 | | |
| 0945 | 5050 | 3.0 | 149 | 24.4C | 8.0 | 401 | 1.40 | 1.89 | .96 | | .00 | 3.54 | .29 | .42 | | | -- | 208 | 0 | 0.7 | |
| | | | | | | | 33 | 44 | 23 | | | 83 | 7 | 10 | | | | | | | |
| 06/26/74 | 5050 | | 5.1 | 63 F | | | 36 | 21 | 24 | -- | 0 | 235 | 15 | 16 | -- | .00 | -- | 234 | 177 | | |
| 0630 | 5050 | | 53 | 17 C | 7.6 | 442 | 1.80 | 1.73 | 1.04 | | .00 | 3.85 | .31 | .45 | | | -- | 228 | 0 | 0.8 | |
| | | | | | | | 39 | 38 | 23 | | | 84 | 7 | 10 | | | | | | | |
| | 86 | 2204.10 | | | MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR | | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 11.5 | 52 F | 7.8 | | 22 | 15 | 11 | -- | 0 | 139 | 10 | 7.6 | -- | .00 | -- | | 116 | | |
| 0845 | 5050 | 15 | 105 | 11 C | 8.0 | 266 | 1.10 | 1.23 | .48 | | .00 | 2.28 | .21 | .21 | | | -- | 134 | 3 | 0.4 | |
| | | | | | | | 39 | 44 | 17 | | | 86 | 8 | 8 | | | | | | | |
| 03/27/74 | 5050 | | 10.8 | 60.0F | 8.0 | | 18 | 14 | 10 | -- | 0 | 130 | 10 | 6.0 | -- | .00 | -- | 149 | 104 | | |
| 0945 | 5050 | 20 | 109 | 15.5C | 8.3 | 242 | .90 | 1.15 | .44 | | .00 | 2.13 | .21 | .17 | | | -- | 122 | 0 | 0.4 | |
| | | | | | | | 36 | 46 | 18 | | | 85 | 8 | 7 | | | | | | | |
| 04/24/74 | 5050 | | 10.7 | 62 F | 8.0 | | 19 | 14 | 12 | -- | 0 | 128 | 19 | 4.7 | -- | .00 | -- | 150 | 101 | | |
| 1005 | 5050 | 15 | 111 | 17 C | 7.9 | 241 | .95 | 1.15 | .52 | | .00 | 2.10 | .40 | .13 | | | -- | 132 | 0 | 0.5 | |
| | | | | | | | 36 | 44 | 20 | | | 80 | 15 | 5 | | | | | | | |
| 05/23/74 | 5050 | | 9.2 | 71.0F | 8.0 | | 24 | 16 | 14 | -- | 0 | 164 | 15 | 9.3 | -- | .10 | -- | 183 | 127 | | |
| 0900 | 5050 | 10 | 105 | 21.6C | 8.3 | 299 | 1.20 | 1.32 | .61 | | .00 | 2.69 | .31 | .26 | | | -- | 159 | 0 | 0.5 | |
| | | | | | | | 38 | 42 | 19 | | | 83 | 10 | 8 | | | | | | | |
| | 46 | 4200.00 | | | CHOWCHILLA RIVER NR RAYMOND | | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | 71.05 | 4.7 | 52.0F | 7.6 | | 11 | 4.0 | 10 | -- | 0 | 66 | -- | 6.2 | .5 | .00 | -- | 104 | 44 | | E |
| 0900 | 5050 | | 80 | 11.1C | 7.8 | 136 | .55 | .33 | .44 | | .00 | 1.08 | | .17 | .01 | | -- | | 0 | 0.7 | |
| | | | | | | | 42 | 25 | 33 | | | 86 | | 13 | 1 | | | | | | |
| 07/19/74 | 5050 | 68.00 | 8.5 | 77 F | 8.0 | 360 | 24 | 6.3 | 36 | -- | 0 | 95 | .0 | 60 | -- | .00 | -- | 233 | 96 | | |
| 0830 | 5050 | | 104 | 25 C | 8.0 | 380 | 1.40 | .52 | 1.57 | | .00 | 1.56 | .00 | 1.69 | | | -- | 177 | 18 | 1.6 | T |
| | | | | | | | 40 | 15 | 45 | | | 49 | | 52 | | | | | | | |
| | 46 | 7150.00 | | | FRESNO RIVER NR DAULTON | | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | | 7.4 | 54.0F | 7.6 | | 12 | 2.9 | 10 | -- | 0 | 62 | -- | 5.7 | .7 | .00 | -- | 100 | 42 | | E |
| 0935 | 5050 | | 70 | 12.2C | 7.7 | 130 | .60 | .24 | .44 | | .00 | 1.02 | | .16 | .01 | | -- | | 0 | 0.7 | |
| | | | | | | | 47 | 19 | 34 | | | 86 | | 13 | 1 | | | | | | |
| 07/19/74 | 5050 | | 8.1 | 77 F | 7.3 | 140 | 9.8 | 2.6 | 13 | -- | 0 | 45 | .2 | 17 | -- | .00 | -- | 94 | 35 | | |
| 0730 | 5050 | | 98 | 25 C | 7.7 | 137 | .49 | .21 | .57 | | .00 | .74 | .00 | .48 | | | -- | 65 | 0 | 1.0 | T |
| | | | | | | | 39 | 17 | 45 | | | 61 | | 39 | | | | | | | |
| | 47 | 1189.00 | | | KERCKHOFF RESERVOIR NEAR AUBERRY | | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | | 10.3 | 44.0F | 7.2 | | 3.3 | .4 | 3.4 | -- | 0 | 17 | -- | .9 | .3 | .00 | -- | 40 | 10 | | E |
| 1240 | 5050 | | 94 | 6.7C | 7.7 | 38 | .16 | .03 | .15 | | .00 | .28 | | .03 | .00 | | -- | | 0 | 0.5 | |
| | | | | | | | 47 | 9 | 44 | | | 90 | | 10 | | | | | | | |
| 07/17/74 | 5050 | | 11.0 | 63 F | 6.3 | 20 | 1.6 | .5 | 2.0 | -- | 0 | 15 | .0 | 2.4 | -- | .00 | -- | 24 | 6 | | E |
| 1000 | 5050 | | 127 | 17 C | 6.9 | 20 | .08 | .04 | .09 | | .00 | .25 | .00 | .07 | | | -- | 14 | 0 | 0.4 | T |
| | | | | | | | 38 | 19 | 43 | | | 78 | | 22 | | | | | | | |
| | 57 | 1910.00 | | | FRIANT-KERN CANAL AT FRIANT | | | | | | | | | | | | | | | | |
| 07/29/74 | 5050 | | 14.5 | 63 F | 7.0 | 20 | 1.6 | .7 | 1.7 | -- | 0 | 17 | .0 | 1.9 | -- | .00 | -- | 27 | 7 | | E |
| 1230 | 5050 | | 189 | 17 C | 7.4 | 22 | .08 | .06 | .07 | | .00 | .28 | .00 | .05 | | | -- | 14 | 0 | 0.3 | T |
| | | | | | | | 38 | 29 | 33 | | | 85 | | 15 | | | | | | | |
| 09/17/74 | 5050 | | 9.8 | 63.5F | 7.0 | 25 | 2.4 | .2 | 1.9 | -- | 0 | 10 | .0 | 1.2 | .2 | .00 | -- | 17 | 7 | | |
| 1100 | 5050 | | 129 | 17.5C | 6.4 | 26 | .12 | .02 | .08 | | .00 | .16 | .00 | .03 | .00 | | -- | 11 | 0 | 0.3 | T |
| | | | | | | | 55 | 4 | 36 | | | 84 | | 16 | | | | | | | |
| | 60 | 1140.00 | | | KINGS RIVER BELOW PEOPLES WEIR | | | | | | | | | | | | | | | | |
| 03/14/74 | 5050 | | 10.9 | 55.0F | 7.2 | | 7.3 | 2.4 | 4.2 | -- | 0 | 33 | -- | 2.8 | 1.1 | .00 | -- | 60 | 28 | | E |
| 1350 | 5050 | | 104 | 12.8C | 7.7 | 76 | .36 | .20 | .18 | | .00 | .54 | | .08 | .02 | | -- | | 1 | 0.3 | |
| | | | | | | | 49 | 27 | 24 | | | 84 | | 13 | 3 | | | | | | |
| 07/16/74 | 5050 | 5.85 | 10.1 | 68 F | 7.2 | 30 | 2.5 | .9 | 2.0 | -- | 0 | 16 | .0 | 1.9 | .6 | .00 | -- | 26 | 10 | | E |
| 1030 | 5050 | | 111 | 20 C | 7.0 | 31 | .12 | .07 | .09 | | .00 | .26 | .00 | .05 | .01 | | -- | 16 | 0 | 0.3 | T |
| | | | | | | | 43 | 25 | 32 | | | 81 | | 16 | 3 | | | | | | |
| | 60 | 2185.00 | | | KAWEAH RIVER BELOW TERMINUS DAM | | | | | | | | | | | | | | | | |
| 03/14/74 | 5050 | | 9.3 | 51.0F | 7.4 | | 11 | 1.6 | 4.6 | -- | 0 | 45 | -- | .9 | .2 | .00 | -- | 72 | 34 | | E |
| 1240 | 5050 | 616 | 85 | 10.5C | 7.8 | 89 | .55 | .13 | .20 | | .00 | .74 | | .03 | .00 | | -- | | 0 | 0.3 | |
| | | | | | | | 63 | 15 | 23 | | | 96 | | 4 | | | | | | | |
| 07/16/74 | 5050 | | 10.5 | | 7.2 | 35 | 4.5 | .9 | 1.7 | -- | 0 | 19 | .0 | 1.9 | .3 | .00 | -- | 33 | 15 | | E |
| 1200 | 5050 | 1845 | | | 7.2 | 37 | .22 | .07 | .07 | | .00 | .31 | .00 | .05 | .00 | | -- | 19 | 0 | 0.2 | T |
| | | | | | | | 61 | 19 | 19 | | | 86 | | 14 | | | | | | | |
| | 60 | 3198.00 | | | TULE RIVER BELOW SUCCESS DAM | | | | | | | | | | | | | | | | |
| 03/20/74 | 5050 | 2.44 | 10.4 | 58 F | 8.4 | | 22 | 5.8 | 11 | -- | 0 | 102 | -- | 4.7 | .9 | .00 | -- | 138 | 79 | | |
| 1235 | 5050 | | 103 | 14 C | 8.1 | 200 | 1.10 | .48 | .48 | | .00 | 1.67 | | .13 | .01 | | -- | | 0 | 0.5 | |
| | | | | | | | 53 | 23 | 23 | | | 92 | | 7 | 1 | | | | | | |
| 07/17/74 | 5050 | 5.72 | 10.1 | 63 F | 7.1 | 125 | 18 | 3.4 | 8.4 | -- | 0 | 80 | .0 | 5.2 | 1.4 | .10 | -- | 110 | 59 | | E |
| 1230 | 5050 | | 106 | 17 C | 7.2 | 155 | .90 | .28 | .37 | | .00 | 1.31 | .00 | .15 | .02 | | -- | 76 | 0 | 0.5 | T |
| | | | | | | | 58 | 18 | 24 | | | 89 | | 10 | 1 | | | | | | |

**TABLE D-2 (Cont'd)**

MINERAL ANALYSES OF SURFACE WATER

| DATE TIME | SAMPLER LAB | G.H. Q DEPTH | DO SAT | TEMP | FIELD LABORATORY PH | EC | CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCM | TURB SAP | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER | | | | | | | | | MILLIGRAMS PER LITER | | | | | |
| | | | | | | | MILLIEQUIVALENTS PER LITER | | | | | | | | | | | | | | |
| | | | | | | | PERCENT REACTANCE VALUE | | | | | | | | | | | | | | |
| | C0 | 5150.00 | | | KERN RIVER NR BAKERSFIELD | | | | | | | | | | | | | | | | |
| 03/21/74 | 5050 | | 8.8 | 64.0F | 7.5 | | 14 | 2.7 | 13 | -- | 0 | 70 | -- | 4.7 | .2 | .10 | -- | 98 | 46 | | |
| 0800 | 5050 | | 93 | 17.8C | 7.7 | 156 | .70 | .22 | .57 | | .00 | 1.15 | | .13 | .00 | | -- | | 0 | 0.8 | |
| | | | | | | | 47 | 15 | 38 | | | 90 | | 10 | | | | | | | |
| 07/17/74 | 5050 | | 9.6 | 60 F | 7.8 | 75 | 6.8 | 1.7 | 7.6 | -- | 0 | 37 | 3.0 | 4.6 | .5 | .00 | -- | 57 | 24 | | |
| 1045 | 5050 | | 106 | 20 C | 7.5 | 84 | .34 | .14 | .33 | | .00 | .61 | .06 | .13 | .01 | | -- | 42 | 0 | 0.7 | T |
| | | | | | | | 42 | 17 | 41 | | | 75 | 7 | 16 | 1 | | | | | | |
| | C1 | 1140.00 | | | KINGS RIVER BELOW PINE FLAT RESERVOIR | | | | | | | | | | | | | | | | |
| 03/14/74 | 5050 | 4.58 | 11.1 | 48.0F | 7.3 | | 4.2 | .6 | 2.5 | -- | 0 | 18 | -- | .5 | .6 | .00 | -- | 38 | 13 | | E |
| 0915 | 5050 | | 97 | 8.9C | 7.6 | 41 | .21 | .05 | .11 | | .00 | .30 | | .01 | .01 | | -- | | 0 | 0.3 | |
| | | | | | | | 57 | 14 | 30 | | | 94 | | 3 | 3 | | | | | | |
| 07/18/74 | 5050 | 7.22 | 13.0 | 50 F | 7.2 | 25 | 3.2 | 1.5 | 2.5 | -- | 0 | 19 | .0 | 2.2 | .3 | .00 | -- | 35 | 14 | | EX |
| 0820 | 5050 | | 117 | 10 C | 7.3 | 39 | .16 | .12 | .11 | | .00 | .31 | .00 | .06 | .00 | | -- | 19 | 0 | 0.3 | T |
| | | | | | | | 41 | 31 | 28 | | | 84 | | 16 | | | | | | | |
| | C1 | 1320.00 | | | BIG CREEK ABOVE PINE FLAT RESERVOIR | | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | 2.49 | 11.1 | 59.0F | 7.4 | | 6.8 | 1.5 | 5.2 | -- | 0 | 36 | -- | 1.4 | .1 | .00 | -- | 66 | 23 | | E |
| 1450 | 5050 | | 113 | 15.0C | 7.8 | 71 | .34 | .12 | .23 | | .00 | .59 | | .04 | .00 | | -- | | 0 | 0.5 | |
| | | | | | | | 49 | 17 | 33 | | | 94 | | 6 | | | | | | | |
| | C1 | 1460.00 | | | KINGS RIVER BELOW NORTH FORK | | | | | | | | | | | | | | | | |
| 03/13/74 | 5050 | 4.81 | 9.2 | 52.0F | 7.4 | | 5.6 | .5 | 3.2 | -- | 0 | 23 | -- | .0 | .0 | .00 | -- | 47 | 16 | | E |
| 1415 | 5050 | | 86 | 11.1C | 7.8 | 50 | .28 | .04 | .14 | | .00 | .38 | | .00 | .00 | | -- | | 0 | 0.3 | |
| | | | | | | | 51 | 5 | 40 | | | 100 | | | | | | | | | |
| | C2 | 1250.00 | | | KAWEAH RIVER AT THREE RIVERS | | | | | | | | | | | | | | | | |
| 03/14/74 | 5050 | 4.86 | 11.4 | 52.0F | 7.4 | | 9.0 | 1.3 | 3.7 | -- | 0 | 37 | -- | 1.4 | .0 | .00 | -- | 59 | 28 | | E |
| 1145 | 5050 | | 106 | 11.1C | 7.5 | 70 | .45 | .11 | .16 | | .00 | .61 | | .04 | .00 | | -- | | 0 | 0.3 | |
| | | | | | | | 63 | 15 | 22 | | | 94 | | 6 | | | | | | | |
| 07/16/74 | 5050 | 3.76 | 9.3 | 73 F | 8.2 | 50 | 6.6 | .9 | 2.7 | -- | 0 | 27 | .3 | 1.9 | .2 | .00 | -- | 42 | 20 | | E |
| 1300 | 5050 | | 110 | 23 C | 7.5 | 53 | .33 | .07 | .12 | | .00 | .44 | .01 | .05 | .00 | | -- | 26 | 0 | 0.3 | T |
| | | | | | | | 63 | 13 | 23 | | | 88 | 2 | 10 | | | | | | | |
| | C3 | 1150.00 | | | TULE RIVER NR SPRINGVILLE | | | | | | | | | | | | | | | | |
| 03/20/74 | 5050 | 4.60 | 10.2 | 54 F | 8.2 | | 19 | 3.5 | 8.4 | -- | 0 | 87 | -- | 2.8 | .8 | .00 | -- | 110 | 62 | | |
| 1200 | 5050 | | 97 | 12 C | 7.0 | 150 | .95 | .29 | .37 | | .00 | 1.43 | | .08 | .01 | | -- | | 0 | 0.5 | |
| | | | | | | | 59 | 18 | 23 | | | 94 | | 5 | 1 | | | | | | |
| | C3 | 1320.00 | | | TULE RIVER BELOW SPRINGVILLE | | | | | | | | | | | | | | | | |
| 07/17/74 | 5050 | 3.64 | 9.3 | 81 F | 8.4 | 300 | 40 | 5.4 | 16 | -- | 0 | 166 | 1.5 | 8.5 | .5 | .10 | -- | 190 | 122 | | |
| 1300 | 5050 | | 118 | 27 C | 8.3 | 296 | 2.00 | .44 | .70 | | .00 | 2.72 | .03 | .24 | .01 | | -- | 154 | 0 | 0.6 | |
| | | | | | | | 64 | 14 | 22 | | | 91 | 1 | 8 | | | | | | | |
| | C5 | 1350.00 | | | KERN RIVER BELOW ISABELLA DAM | | | | | | | | | | | | | | | | |
| 03/21/74 | 5050 | 4.74 | 10.2 | 58 F | 7.8 | | 11 | 2.3 | 11 | -- | 0 | 58 | -- | 3.8 | .4 | .10 | -- | 82 | 37 | | |
| 0630 | 5050 | | 108 | 14 C | 7.8 | 130 | .55 | .19 | .48 | | .00 | .95 | | .11 | .01 | | -- | | 0 | 0.8 | |
| | | | | | | | 45 | 16 | 39 | | | 89 | | 10 | 1 | | | | | | |
| 07/17/74 | 5050 | 8.63 | 9.3 | 66 F | 7.2 | 70 | 6.8 | 1.5 | 7.2 | -- | 0 | 35 | 2.6 | 4.8 | .6 | .10 | -- | 55 | 23 | | |
| 0900 | 5050 | | 108 | 19 C | 7.3 | 80 | .34 | .12 | .31 | | .00 | .57 | .05 | .14 | .01 | | -- | 41 | 0 | 0.7 | T |
| | | | | | | | 44 | 16 | 40 | | | 74 | 6 | 18 | 1 | | | | | | |
| | C5 | 1500.00 | | | KERN RIVER AT KERNVILLE | | | | | | | | | | | | | | | | |
| 03/21/74 | 5050 | | 9.6 | 52 F | 7.2 | | 9.7 | 1.6 | 7.8 | -- | 0 | 47 | -- | 1.4 | .0 | .00 | -- | 74 | 31 | | E |
| 0800 | 5050 | | 95 | 11 C | 7.7 | 97 | .48 | .13 | .34 | | .00 | .77 | | .04 | .00 | | -- | | 0 | 0.6 | |
| | | | | | | | 51 | 14 | 36 | | | 95 | | 5 | | | | | | | |

TABLE D-3

MINOR ELEMENT ANALYSES OF SURFACE WATER

Table D-3 presents minor element analyses performed by the Department of Water Resources' laboratory and the U. S. Geological Survey's laboratory.

The sampler and laboratory codes are as follows:

5000 U. S. Geological Survey

5050 Department of Water Resources

Values followed by "D" represent dissolved concentrations. All others represent total concentrations.

**TABLE D-3**

MINOR ELEMENT ANALYSIS OF SURFACE WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH FC | TEMP PH | ARSENIC | BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B0 | 7020.00 | | | SAN JOAQUIN RIVER NEAR VERNALIS | | | | | | | | |
| 10/18/73 | 5050 | | | 14.0C | | -- | -- | -- | -- | -- | -- | |
| 0745 | 5000 | | 390 | 7.2 | -- | -- | -- | 0.0200 D | -- | -- | -- | |
| 11/16/73 | 5050 | | | 13.0C | | -- | -- | -- | -- | -- | -- | |
| 0830 | 5000 | | 500 | 7.4 | -- | -- | -- | 0.030 D | -- | -- | -- | |
| 12/19/73 | 5050 | | | 9.0C | | -- | -- | -- | -- | -- | -- | |
| 0900 | 5000 | | 350 | 7.2 | -- | -- | -- | 0.050 D | -- | -- | -- | |
| 01/30/74 | 5050 | | | 8.5C | | -- | -- | -- | -- | -- | -- | |
| 0800 | 5000 | | 150 | 8.2 | -- | -- | -- | 0.060 D | -- | -- | -- | |
| 02/22/74 | 5050 | | | 9.0C | | -- | -- | -- | -- | -- | -- | |
| 0740 | 5000 | | 350 | 7.3 | -- | -- | -- | 0.030 D | -- | -- | -- | |
| 03/21/74 | 5050 | | | 13.0C | | -- | -- | -- | -- | -- | -- | |
| 0730 | 5000 | | 500 | 7.2 | -- | -- | -- | 0.000 D | -- | -- | -- | |
| 04/18/74 | 5050 | | | 14.0C | | -- | -- | -- | -- | -- | -- | |
| 0730 | 5000 | | 400 | 7.7 | -- | -- | -- | 0.040 D | -- | -- | -- | |
| 05/24/74 | 5050 | | | 20 C | | -- | -- | -- | -- | -- | -- | |
| 0800 | 5000 | | 500 | 7.6 | -- | -- | -- | 0.030 D | -- | -- | -- | |
| 06/20/74 | 5050 | | | 20 C | | -- | -- | -- | -- | -- | -- | |
| 0645 | 5000 | | 400 | 7.2 | -- | -- | -- | 0.030 D | -- | -- | -- | |
| 07/25/74 | 5050 | | | 27 C | | -- | -- | -- | -- | -- | -- | |
| 0735 | 5000 | | 900 | 7.6 | -- | -- | -- | 0.030 D | -- | -- | -- | |
| B4 | 1232.50 | | | WOODS CREEK AT SLATE CREEK | | | | | | | | |
| 10/25/73 | 5050 | | | 55.0F | | -- | 0.00 D | 0.01 D | 0.00 D | 0.0001 T | -- | |
| 1200 | 5050 | | 188 | 8.0 | 0.00 D | 0.00 D | -- | 0.09 D | -- | -- | 0.00 D | |
| 11/15/73 | 5050 | | | 53.5F | | -- | 0.06 D | 0.01 D | 0.00 D | 0.0001 T | -- | |
| 1230 | 5050 | | | 8.0 | 0.00 D | 0.00 D | -- | 0.14 D | -- | -- | 0.00 D | |
| B4 | 1241.50 | | | WOODS CREEK AT JACK RAGE ROAD ABOVE SONORA | | | | | | | | |
| 10/25/73 | 5050 | | | 52.0F | | -- | 0.02 D | 0.01 D | 0.00 D | 0.0001 T | -- | |
| 0830 | 5050 | | 200 | 7.3 | 0.00 D | 0.00 D | -- | 0.06 D | -- | -- | 0.00 D | |
| 11/15/73 | 5050 | | | 56.0F | | -- | 0.04 D | 0.00 D | 0.00 D | 0.0000 T | -- | |
| 0940 | 5050 | | | 7.4 | 0.00 D | 0.00 D | -- | 0.05 D | -- | -- | 0.00 D | |
| B5 | 6152.50 | | | BURNS CREEK AT MERCED-MARIPOSA COUNTY LINE | | | | | | | | |
| 03/27/74 | 5050 | | 7 | 59.0F | | -- | -- | 0.00 T | 0.01 T | 0.0001 T | -- | |
| 0845 | 5050 | | | 7.4 | -- | -- | -- | -- | -- | -- | 0.00 T | |
| 04/24/74 | 5050 | | 5 | 54.0F | | -- | -- | 0.00 T | 0.00 T | 0.0001 T | -- | |
| 0800 | 5050 | | | 7.6 | -- | -- | -- | -- | -- | -- | 0.01 T | |
| B6 | 2204.10 | | | MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR | | | | | | | | |
| 03/27/74 | 5050 | | 20 | 60.0F | | -- | -- | 0.00 T | 0.01 T | 0.0001 T | -- | |
| 0945 | 5050 | | | 8.0 | -- | -- | -- | -- | -- | -- | 0.00 T | |
| 04/24/74 | 5050 | | 15 | 62 F | | -- | -- | 0.00 T | 0.00 T | 0.0001 T | -- | |
| 1125 | 5050 | | | 8.0 | -- | -- | -- | -- | -- | -- | 0.03 T | |

TABLE D-4

SUPPLEMENTAL MINOR ELEMENT ANALYSES OF SURFACE WATER

Table D-4 presents supplemental minor element analyses performed by the Department of Water Resources' laboratory and the U. S. Geological Survey's laboratory.

The sampler and laboratory codes are as follows:

5000 U. S. Geological Survey

5050 Department of Water Resources

Values followed by "D" represent dissolved concentrations. All others represent total concentrations.

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF SURFACE WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH FC | TEMP PH | ALUMINUM | ANTIMONY BERYLLIUM | BISMUTH COBALT | GALLIUM GERMANIUM | LITHIUM MOLYBDENUM | NICKEL STRONTIUM | TITANIUM VANADIUM | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RO 7020.00 | | | | SAN JOAQUIN RIVER NEAR VERNALIS | | | | | | | | |
| 11/16/73 | 5050 | | | 13.00 | | -- | -- | -- | 0.000 D | -- | -- | |
| 0830 | 5000 | | 500 | 7.4 | -- | -- | -- | -- | -- | 0.410 D | -- | |
| 12/19/73 | 5050 | | | 9.00 | | -- | -- | -- | 0.000 D | -- | -- | |
| 0900 | 5000 | | 350 | 7.2 | -- | -- | -- | -- | -- | 0.240 D | -- | |
| 01/30/74 | 5050 | | | 8.50 | | -- | -- | -- | 0.000 D | -- | -- | |
| 0800 | 5000 | | 150 | 8.2 | -- | -- | -- | -- | -- | 0.190 D | -- | |
| 02/22/74 | 5050 | | | 9.00 | | -- | -- | -- | 0.000 D | -- | -- | |
| 0740 | 5000 | | 350 | 7.3 | -- | -- | -- | -- | -- | 0.320 D | -- | |
| 03/21/74 | 5050 | | | 13.00 | | -- | -- | -- | 0.000 D | -- | -- | |
| 0730 | 5000 | | 500 | 7.2 | -- | -- | -- | -- | -- | -- | -- | |
| 04/18/74 | 5050 | | | 14.00 | | -- | -- | -- | 0.020 D | -- | -- | |
| 0730 | 5000 | | 400 | 7.7 | -- | -- | -- | -- | -- | 0.280 D | -- | |
| 05/24/74 | 5050 | | | 21.0 | | -- | -- | -- | 0.010 D | -- | -- | |
| 0800 | 5000 | | 500 | 7.6 | -- | -- | -- | -- | -- | 0.370 D | -- | |
| 06/20/74 | 5050 | | | 26.0 | | -- | -- | -- | 0.000 D | -- | -- | |
| 0645 | 5000 | | 400 | 7.2 | -- | -- | -- | -- | -- | 0.250 D | -- | |
| 07/25/74 | 5050 | | | 27.0 | | -- | -- | -- | 0.010 D | -- | -- | |
| 0735 | 5000 | | 900 | 7.6 | -- | -- | -- | -- | -- | 0.470 D | -- | |

TABLE D-5

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-5 presents data not included in Tables D-2, D-3, D-4, D-6, and D-7. Definitions of abbreviations used in this table are as follows:

Abbreviations

| | |
|---|---|
| BOD | Biochemical Oxygen Demand (B = 5 day at 20° C) |
| COD | Chemical Oxygen Demand |
| SUSS | Suspended Solids at (S = 105° C) |
| VSUSS | Volatile |
| TOC | Total Organic Carbon |
| LAB | Laboratory |
| | 5000 U. S. Geological Survey |
| | 5050 Department of Water Resources |

TABLE D-5

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SET 5

| DATE, TIME | SAMP LAB | TEMP FC | DO G.H. | F-PH L-PH | DISCH MGAS | DEPTH TURB | T-L CHLOR | O-G COLOR | ML/L MG/L | BOD SUS S | COD V SUS S | CYANIDE PHENOLS | TOC DOC | IODIDE T DOOR | BROMIDE SULFITE | T SULF O SULF | CC EXT CA EXT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | STANISLAUS RIVER AT KNIGHTS FERRY | | | | | | | | | | | | |
| 10/04/73 | 5050 | 68.5F | 10.7 | 7.4 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1530 | 5050 | | | | -- | | -- | -- | -- | 1 5 | -- | -- | -- | -- | -- | -- | -- |
| 06/19/74 | 5050 | 16.9C | 10.8 | 7.3 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1300 | 5050 | 35 | | | -- | | -- | -- | -- | 5 5 | -- | -- | -- | -- | -- | -- | -- |
| 09/26/74 | 5050 | 20.2C | 8.7 | 7.3 | | | -- | -- | -- | 0.9 B | -- | -- | -- | -- | -- | -- | -- |
| 0650 | 5050 | 65 | | | -- | | -- | -- | -- | 3 5 | 1 | -- | -- | -- | -- | -- | -- |
| | | | | | TUOLUMNE RIVER AT LA GRANGE BRIDGE | | | | | | | | | | | | |
| 10/25/73 | 5050 | 56 F | 12.1 | 6.8 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1330 | 5050 | 30 | | | -- | | -- | -- | -- | 7 5 | -- | -- | -- | -- | -- | -- | -- |
| 06/05/74 | 5050 | 16.5C | 10.8 | 7.1 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1300 | 5050 | 28 | | | -- | | -- | -- | -- | 2 5 | -- | -- | -- | -- | -- | -- | -- |
| 09/11/74 | 5050 | 13.4C | 11.2 | 6.9 | | | -- | -- | -- | 1.8 B | -- | -- | -- | -- | -- | -- | -- |
| 1735 | 5050 | 34 | | | -- | | -- | -- | -- | 0 5 | 0 | -- | -- | -- | -- | -- | -- |
| | | | | | CANAL CREEK AT OAKDALE ROAD | | | | | | | | | | | | |
| 02/27/74 | 5050 | 62 F | 11.7 | 6.8 | 0.1 | | -- | -- | -- | 55 B | -- | -- | -- | -- | -- | -- | -- |
| 1315 | 5050 | | | | -- | | -- | -- | -- | 146 5 | 107 | -- | -- | -- | -- | -- | -- |
| 03/27/74 | 5050 | 55 F | 11.7 | 7.2 | 50 | | -- | -- | -- | 1.5 B | -- | -- | -- | -- | -- | -- | -- |
| 1335 | 5050 | | | | -- | | -- | -- | -- | 17 5 | 6 | -- | -- | -- | -- | -- | -- |
| 04/24/74 | 5050 | 53.5F | 10.5 | 7.3 | 50 | | -- | -- | -- | 1.5 B | -- | -- | -- | -- | -- | -- | -- |
| 1400 | 5050 | | | | -- | | -- | -- | -- | 4 5 | 0 | -- | -- | -- | -- | -- | -- |
| 05/23/74 | 5050 | 57 F | 9.7 | 7.3 | 60 | | -- | -- | -- | 1.7 B | -- | -- | -- | -- | -- | -- | -- |
| 1230 | 5050 | | | | -- | | -- | -- | -- | 8 5 | 0 | -- | -- | -- | -- | -- | -- |
| 06/26/74 | 5050 | 57 F | 11.5 | 7.2 | | | -- | -- | -- | 1.4 B | -- | -- | -- | -- | -- | -- | -- |
| 1000 | 5050 | | | | -- | | -- | -- | -- | 10 5 | 3 | -- | -- | -- | -- | -- | -- |
| | | | | | DUTCHMAN CREEK AT BAXTER ROAD | | | | | | | | | | | | |
| 02/27/74 | 5050 | 53 F | 9.1 | 7.6 | 0.1 | | -- | -- | -- | 2.2 B | -- | -- | -- | -- | -- | -- | -- |
| 0700 | 5050 | | | | -- | | -- | -- | -- | 12 5 | 4 | -- | -- | -- | -- | -- | -- |
| 03/27/74 | 5050 | 58 F | 5.9 | 7.4 | 0.1 | | -- | -- | -- | 3.1 B | -- | -- | -- | -- | -- | -- | -- |
| 0715 | 5050 | | | | -- | | -- | -- | -- | 9 5 | 6 | -- | -- | -- | -- | -- | -- |
| | | | | | DEADMAN CREEK AT BAXTER ROAD | | | | | | | | | | | | |
| 02/27/74 | 5050 | 54 F | 9.9 | 7.3 | 0.2 | | -- | -- | -- | 2.0 B | -- | -- | -- | -- | -- | -- | -- |
| 0745 | 5050 | | | | -- | | -- | -- | -- | 7 5 | 3 | -- | -- | -- | -- | -- | -- |
| 03/27/74 | 5050 | 54 F | 9.6 | 7.5 | 0.1 | | -- | -- | -- | 2.3 B | -- | -- | -- | -- | -- | -- | -- |
| 0730 | 5050 | | | | -- | | -- | -- | -- | 6 5 | 3 | -- | -- | -- | -- | -- | -- |
| 04/24/74 | 5050 | 57.0F | 8.2 | 7.7 | 0.1 | | -- | -- | -- | 1.8 B | -- | -- | -- | -- | -- | -- | -- |
| 0745 | 5050 | | | | -- | | -- | -- | -- | 6 5 | 3 | -- | -- | -- | -- | -- | -- |
| | | | | | SAN JOAQUIN RIVER NEAR VERNALIS | | | | | | | | | | | | |
| 10/18/73 | 5050 | 18 C | 7.7 | 7.2 | | | -- | -- | -- | 7.1 B | 17 | -- | -- | -- | -- | -- | -- |
| 0745 | 5050 | 390 | 12.17 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/15/73 | 5050 | 13 C | 7.9 | 7.4 | | | -- | -- | -- | 2.9 B | 15 | -- | -- | -- | -- | -- | -- |
| 0830 | 5050 | 500 | 13.50 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/19/73 | 5050 | 9 C | 9.5 | 7.2 | | | -- | -- | -- | 3.2 B | 2 | -- | -- | -- | -- | -- | -- |
| 0900 | 5050 | 350 | 12.67 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01/30/74 | 5050 | 47 F | 11.0 | 8.2 | | | -- | -- | -- | 1.6 B | 4 | -- | -- | -- | -- | -- | -- |
| 0800 | 5050 | 150 | 12.42 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/22/74 | 5050 | 9.0C | 10.7 | 7.3 | | | -- | -- | -- | 1.6 B | 4 | -- | -- | -- | -- | -- | -- |
| 0740 | 5050 | 350 | 13.54 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/21/74 | 5050 | 13 C | 9.4 | 7.2 | | | -- | -- | -- | 2.7 B | 10 | -- | -- | -- | -- | -- | -- |
| 0730 | 5050 | 500 | 13.90 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 04/18/74 | 5050 | 14 C | 9.7 | 7.7 | | | -- | -- | -- | 2.4 B | 5 | -- | -- | -- | -- | -- | -- |
| 0730 | 5050 | 400 | 15.32 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/24/74 | 5050 | 20 C | 9.5 | 7.6 | | | -- | -- | -- | 3.9 B | 15 | -- | -- | -- | -- | -- | -- |
| 0800 | 5050 | 500 | 12.40 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/20/74 | 5050 | 20 C | 8.0 | 7.2 | | | -- | -- | -- | 2.6 B | 18 | -- | -- | -- | -- | -- | -- |
| 0645 | 5050 | 400 | 13.38 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 07/25/74 | 5050 | 27 C | 7.2 | 7.6 | | | -- | -- | -- | 5.1 B | 29 | -- | -- | -- | -- | -- | -- |
| 0735 | 5050 | 900 | 10.55 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/22/74 | 5050 | 23 C | 7.4 | 7.2 | | | -- | -- | -- | 4.1 B | 23 | -- | -- | -- | -- | -- | -- |
| 0750 | 5050 | 600 | 10.45 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/19/74 | 5050 | 19.0C | 7.6 | 7.2 | | | -- | -- | -- | 4.2 B | 12 | -- | -- | -- | -- | -- | -- |
| 0700 | 5050 | 338 | 12.88 | | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | | | SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE | | | | | | | | | | | | |
| 06/11/74 | 5050 | 93.0F | 15.1 | 7.8 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1130 | 5050 | 22 | | | -- | | -- | -- | -- | 3 5 | -- | -- | -- | -- | -- | -- | -- |
| | | | | | STANISLAUS RIVER AT PARROTTS FERRY BRIDGE | | | | | | | | | | | | |
| 10/04/73 | 5050 | 57 F | | 7.4 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1340 | 5050 | | | | -- | | -- | -- | -- | 2 5 | -- | -- | -- | -- | -- | -- | -- |
| 06/19/74 | 5050 | 13.3C | 11.2 | 7.2 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1020 | 5050 | 30 | | | -- | | -- | -- | -- | 8 5 | -- | -- | -- | -- | -- | -- | -- |
| 09/25/74 | 5050 | 16.2C | 10.2 | 7.6 | | | -- | -- | -- | 0.3 B | -- | -- | -- | -- | -- | -- | -- |
| 1715 | 5050 | 38 | | | -- | | -- | -- | -- | 3 5 | 0 | -- | -- | -- | -- | -- | -- |

TABLE D-5 (Cont'd)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

| DATE TIME | SAMP LAB | TEMP FC | DO G.H. | F-PH L-PH | DISCH MGAS | DEPTH TURB | T-L CHLOR | O-G COLOR | SET S ML/L MG/L | BOD SUS S | COD V SUS S | CYANIDE PHENOLS | TOC DOC | IODIDE T ODOR | BROMIDE SULFITE | T SULF D SULF | CC EXT CA EXT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | R3 2110.10 | | STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PAR | | | | | | | | | | |
| 10/04/73 1200 | 5050 5050 | 51.5F | 11.3 | 7.2 | -- | | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 06/19/74 1230 | 5050 5050 | 13.0C 20 | 10.4 | 7.1 | -- | | -- -- | -- -- | -- -- | -- 7 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 09/25/74 1515 | 5050 5050 | 17.0C 33 | 9.5 | 7.2 | -- | | -- -- | -- -- | -- -- | 0.9 B 0 5 | -- 0 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R3 3255.00 | | STANISLAUS RIVER MIDDLE FORK AT BEARDSLEY | | | | | | | | | | |
| 10/04/73 0845 | 5050 5050 | 51.5F | 11.3 | 7.4 | -- | | -- -- | -- -- | -- -- | -- 2 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 06/19/74 0630 | 5050 5050 | 11.4C 28 | 10.0 | 7.1 | -- | | -- -- | -- -- | -- -- | -- 8 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 09/25/74 0805 | 5050 5050 | 14.0C 40 | 10.1 | 7.3 | -- | | -- -- | -- -- | -- -- | 0.4 B 2 5 | -- 0 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R3 3480.10 | | STANISLAUS RIVER MIDDLE FORK AT DARDANELLE | | | | | | | | | | |
| 10/04/73 0730 | 5050 5050 | 43.0F | 11.5 | 7.2 | -- | | -- -- | -- -- | -- -- | -- 2 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 06/19/74 0800 | 5050 5050 | 7.0C 23 | 10.3 | 7.1 | -- | | -- -- | -- -- | -- -- | -- 11 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 09/25/74 1020 | 5050 5050 | 11.2C 50 | 9.7 | 7.3 | -- | | -- -- | -- -- | -- -- | 0.9 B 0 5 | -- 0 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R4 1232.50 | | WOODS CREEK AT SLATE CREEK | | | | | | | | | | |
| 10/25/73 1200 | 5050 5050 | 55.0F 188 | 12.4 | 8.0 | -- | | -- -- | -- -- | -- -- | 1.5 B 4 5 | 7 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 11/15/73 1230 | 5050 5050 | 53.5F | 11.0 | 8.0 | -- | | -- -- | -- -- | -- -- | 1.1 B -- | 13 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R4 1235.50 | | WOODS CREEK BELOW JAMESTOWN STP | | | | | | | | | | |
| 10/25/73 0945 | 5050 5050 | 54.0F 210 | 12.1 | 7.5 | -- | | -- -- | -- -- | -- -- | 1.9 B 5 5 | 7 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 11/15/73 1145 | 5050 5050 | 52.0F | 10.5 | 7.8 | -- | | -- -- | -- -- | -- -- | 2.8 -- | 15 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R4 1238.50 | | WOODS CREEK BELOW SONORA STP | | | | | | | | | | |
| 10/25/73 0930 | 5050 5050 | 52.0F 210 | 11.9 | 7.9 | -- | | -- -- | -- -- | -- -- | 8.1 B 7 5 | 11 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 11/15/73 1130 | 5050 5050 | 51.0F | 7.4 | 7.7 | -- | | -- -- | -- -- | -- -- | 5.5 B -- | 16 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R4 1239.50 | | WOODS CREEK AT COUNTY FAIRGROUNDS | | | | | | | | | | |
| 10/25/73 0900 | 5050 5050 | 52.5F 270 | 11.7 | 7.7 | 1.4 -- | | -- -- | -- -- | -- -- | 0.4 B 4 5 | 6 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 11/15/73 1000 | 5050 5050 | 52.0F | 10.6 | 8.0 | -- | | -- -- | -- -- | -- -- | 1.0 B -- | 4 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R4 1241.50 | | WOODS CREEK AT JACK PAGE ROAD ABOVE SONORA | | | | | | | | | | |
| 10/25/73 0830 | 5050 5050 | 52.0F 200 | 9.6 | 7.3 | -- | | -- -- | -- -- | -- -- | 0.9 B 4 5 | 4 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 11/15/73 0940 | 5050 5050 | 56.0F | 9.2 | 7.4 | -- | | -- -- | -- -- | -- -- | 1.2 B -- | 2 -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R4 1290.10 | | TUOLUMNE RIVER AT WARDS FERRY BRIDGE | | | | | | | | | | |
| 10/25/73 0900 | 5050 5050 | 54 F 15 | 12.8 | 6.8 | -- | | -- -- | -- -- | -- -- | -- 12 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 09/11/74 1500 | 5050 5050 | 27.0C 60 | 9.6 | 7.2 | -- | | -- -- | -- -- | -- -- | 3.2 B 9 5 | -- 3 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R4 1680.00 | | TUOLUMNE RIVER ABOVE EARLY INTAKE | | | | | | | | | | |
| 10/25/73 1115 | 5050 5050 | 54 F 10 | 12.0 | 7.0 | -- | | -- -- | -- -- | -- -- | -- 4 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 06/05/74 0915 | 5050 5050 | 10.2C 10 | 11.1 | 7.0 | -- | | -- -- | -- -- | -- -- | -- 2 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 09/11/74 1215 | 5050 5050 | 15.2C 10 | 10.3 | 7.2 | -- | | -- -- | -- -- | -- -- | 0.5 B 0 5 | -- 0 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R4 1850.10 | | TUOLUMNE RIVER AT TUOLUMNE MEADOWS | | | | | | | | | | |
| 06/05/74 0645 | 5050 5050 | 5.5C 8 | 9.7 | 7.0 | -- | | -- -- | -- -- | -- -- | -- 4 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| 09/11/74 0915 | 5050 5050 | 13.0C 28 | 9.9 | 7.1 | -- | | -- -- | -- -- | -- -- | 0.5 B 0 5 | -- 0 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R5 1320.00 | | MERCED RIVER AT BAGBY | | | | | | | | | | |
| 05/08/74 0630 | 5050 5050 | 12 C 18 | 11.7 | 6.9 | -- | | -- -- | -- -- | -- -- | -- 16 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |
| | | | | | R5 1410.10 | | MERCED RIVER ABOVE BRICEBURG | | | | | | | | | | |
| 05/08/74 0730 | 5050 5050 | 8.5C 9 | 11.1 10.60 | 6.8 | -- | | -- -- | -- -- | -- -- | -- 29 5 | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- | -- -- |

TABLE D-5 (Cont'd)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

| DATE TIME | SAMP LAB | TEMP FC | DO G.H. | F-PH L-PH | DISCH MGAS | DEPTH TURB | T+L CHLOR | D+G COLOR | SET S ML/L MG/L | BOD SUS S | COD V SUS S | CYANIDE PHENOLS | TOC DOC | IODIDE T ODOR | BROMIDE SULFITE | T SULF D SULF | CC EXT CA EXT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R5 1517.10 | | | MERCED RIVER BELOW EL PORTAL | | | | | | | | | | | | |
| 05/08/74 | 5050 | 8.0C | 11.6 | 6.8 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 0810 | 5050 | 8 | | | -- | | -- | -- | -- | 18 S | -- | -- | -- | -- | -- | -- | -- |
| | | R5 1519.50 | | | MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140 | | | | | | | | | | | | |
| 05/08/74 | 5050 | 8.0C | 11.8 | 6.8 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 0900 | 5050 | 8 | | | -- | | -- | -- | -- | 14 S | -- | -- | -- | -- | -- | -- | -- |
| | | R5 1700.00 | | | MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE | | | | | | | | | | | | |
| 05/08/74 | 5050 | 6.0C | 11.3 | 6.6 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 0930 | 5050 | 8 | 6.23 | | -- | | -- | -- | -- | 11 S | -- | -- | -- | -- | -- | -- | -- |
| | | R5 5152.10 | | | BEAR CREEK ABOVE BEAR CREEK RESERVOIR | | | | | | | | | | | | |
| 02/27/74 | 5050 | 53 F | 10.7 | 7.6 | 7 | | -- | -- | -- | 1.3 B | -- | -- | -- | -- | -- | -- | -- |
| 1100 | 5050 | | | | -- | | -- | -- | -- | 13 S | 2 | -- | -- | -- | -- | -- | -- |
| 03/27/74 | 5050 | 60 F | 10.6 | 8.0 | 12 | | -- | -- | -- | 1.6 B | -- | -- | -- | -- | -- | -- | -- |
| 1100 | 5050 | | | | -- | | -- | -- | -- | 15 S | 4 | -- | -- | -- | -- | -- | -- |
| 04/24/74 | 5050 | 64.0F | 10.5 | 8.2 | 20 | | -- | -- | -- | 1.6 B | -- | -- | -- | -- | -- | -- | -- |
| 1200 | 5050 | | | | -- | | -- | -- | -- | 12 S | 2 | -- | -- | -- | -- | -- | -- |
| 05/23/74 | 5050 | 73 F | 9.8 | 8.2 | 3 | | -- | -- | -- | 1.2 B | -- | -- | -- | -- | -- | -- | -- |
| 1030 | 5050 | | | | -- | | -- | -- | -- | 26 S | 0 | -- | -- | -- | -- | -- | -- |
| | | R5 6152.50 | | | BURNS CREEK AT MERCED-MARIPOSA COUNTY LINE | | | | | | | | | | | | |
| 02/27/74 | 5050 | 54 F | 9.3 | 7.5 | 5 | | -- | -- | -- | 1.3 B | -- | -- | -- | -- | -- | -- | -- |
| 1010 | 5050 | | | | -- | | -- | -- | -- | 7 S | 3 | -- | -- | -- | -- | -- | -- |
| 03/27/74 | 5050 | 59.0F | 9.9 | 7.4 | 7 | | -- | -- | -- | 1.3 B | -- | -- | -- | -- | -- | -- | -- |
| 0845 | 5050 | | | | -- | | -- | -- | -- | 14 S | 4 | -- | -- | -- | -- | -- | -- |
| 04/24/74 | 5050 | 59.0F | 9.2 | 7.6 | 5 | | -- | -- | -- | 1.6 B | -- | -- | -- | -- | -- | -- | -- |
| 0800 | 5050 | | | | -- | | -- | -- | -- | 9 S | 2 | -- | -- | -- | -- | -- | -- |
| 05/23/74 | 5050 | 67 F | 6.2 | 7.6 | 0.1 | | -- | -- | -- | 1.4 B | -- | -- | -- | -- | -- | -- | -- |
| 0745 | 5050 | | | | -- | | -- | -- | -- | 13 S | 0 | -- | -- | -- | -- | -- | -- |
| | | R6 2020.10 | | | OWENS CREEK ABOVE OWENS RESERVOIR | | | | | | | | | | | | |
| 02/27/74 | 5050 | 54 F | 11.0 | 7.9 | 2.5 | | -- | -- | -- | 1.8 B | -- | -- | -- | -- | -- | -- | -- |
| 0825 | 5050 | | | | -- | | -- | -- | -- | 28 S | 4 | -- | -- | -- | -- | -- | -- |
| 03/27/74 | 5050 | 63 F | 12.2 | 8.2 | 4 | | -- | -- | -- | 1.6 B | -- | -- | -- | -- | -- | -- | -- |
| 1030 | 5050 | | | | -- | | -- | -- | -- | 38 S | 6 | -- | -- | -- | -- | -- | -- |
| 04/24/74 | 5050 | 66 F | 10.2 | 8.5 | 5.0 | | -- | -- | -- | 2.6 B | -- | -- | -- | -- | -- | -- | -- |
| 1125 | 5050 | | | | -- | | -- | -- | -- | 30 S | 2 | -- | -- | -- | -- | -- | -- |
| 05/23/74 | 5050 | 76.0F | 12.4 | 8.2 | 3 | | -- | -- | -- | 1.5 B | -- | -- | -- | -- | -- | -- | -- |
| 0945 | 5050 | | | | -- | | -- | -- | -- | 29 S | 0 | -- | -- | -- | -- | -- | -- |
| 06/26/74 | 5050 | 63 F | 5.1 | | | | -- | -- | -- | 1.6 B | -- | -- | -- | -- | -- | -- | -- |
| 0630 | 5050 | | | | -- | | -- | -- | -- | 26 S | 6 | -- | -- | -- | -- | -- | -- |
| | | R6 2204.10 | | | MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR | | | | | | | | | | | | |
| 02/27/74 | 5050 | 52 F | 11.5 | 7.8 | 15 | | -- | -- | -- | 1.6 B | -- | -- | -- | -- | -- | -- | -- |
| 0845 | 5050 | | | | -- | | -- | -- | -- | 9 S | 3 | -- | -- | -- | -- | -- | -- |
| 03/27/74 | 5050 | 60 F | 10.8 | 8.0 | 20 | | -- | -- | -- | 1.9 B | -- | -- | -- | -- | -- | -- | -- |
| 0945 | 5050 | | | | -- | | -- | -- | -- | 13 S | 4 | -- | -- | -- | -- | -- | -- |
| 04/24/74 | 5050 | 62 F | 10.7 | 8.0 | 15 | | -- | -- | -- | 1.0 B | -- | -- | -- | -- | -- | -- | -- |
| 1005 | 5050 | | | | -- | | -- | -- | -- | 6 S | 0 | -- | -- | -- | -- | -- | -- |
| 05/24/74 | 5050 | 71 F | 9.2 | 8.0 | 10 | | -- | -- | -- | 1.8 B | -- | -- | -- | -- | -- | -- | -- |
| 0900 | 5050 | | | | -- | | -- | -- | -- | 16 S | 0 | -- | -- | -- | -- | -- | -- |
| | | R7 1340.00 | | | SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY | | | | | | | | | | | | |
| 06/12/74 | 5050 | 92.0F | 11.9 | 7.0 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1130 | 5050 | 16 | | | -- | | -- | -- | -- | 8 S | -- | -- | -- | -- | -- | -- | -- |
| | | R7 1532.50 | | | SAN JOAQUIN RIVER BELOW SHAKEFLAT CREEK | | | | | | | | | | | | |
| 06/12/74 | 5050 | 92.0F | 10.2 | 7.0 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 0830 | 5050 | 15 | | | -- | | -- | -- | -- | 6 S | -- | -- | -- | -- | -- | -- | -- |
| | | R7 4250.50 | | | SAN JOAQUIN RIVER SOUTH FORK AT MONO HOT SPRINGS | | | | | | | | | | | | |
| 06/11/74 | 5050 | 73.0F | 9.5 | 7.0 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 0815 | 5050 | 8 | | | -- | | -- | -- | -- | 6 S | -- | -- | -- | -- | -- | -- | -- |
| | | C0 2550.30 | | | KAWEAH RIVER AT LEMONCOVE | | | | | | | | | | | | |
| 04/02/74 | 5050 | 55.0F | 10.9 | 7.4 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1400 | 5050 | | | | -- | | -- | -- | -- | 268 S | 36 | -- | -- | -- | -- | -- | -- |
| | | C0 3195.00 | | | TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE | | | | | | | | | | | | |
| 04/03/74 | 5050 | 49.0F | 13.4 | 8.4 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1350 | 5050 | | | | -- | | -- | -- | -- | 26 S | 7 | -- | -- | -- | -- | -- | -- |
| | | C0 5160.10 | | | KERN RIVER AT HART PARK | | | | | | | | | | | | |
| 04/11/74 | 5050 | 55 F | 11.8 | 7.7 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 0930 | 5050 | 122 | | | -- | | -- | -- | -- | 16 S | 4 | -- | -- | -- | -- | -- | -- |
| | | C0 5180.10 | | | KERN RIVER AT RANCHERIA BRIDGE | | | | | | | | | | | | |
| 04/11/74 | 5050 | 53 F | 11.7 | 7.8 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 0835 | 5050 | 120 | | | -- | | -- | -- | -- | 26 S | 4 | -- | -- | -- | -- | -- | -- |

TABLE D-5 (Cont'd)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

| DATE TIME | SAMP LAB | TEMP AIR FC | DO G.M. | F-PH L-PH | DISCH MGAS | DEPTH TURB | T-L CHLOR | O-G COLOR | SET S HL/L MG/L | BOD SUS S | COD V SUS S | CYANIDE PHENOLS | TOC DOC | IODIDE T DOOR | BROMIDE SULFITE | T SULF D SULF | CC EXT CA EXT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | C1 1115.50 | | | KINGS RIVER NEAR PIEDRA | | | | | | | | | | | | |
| 10/10/73 | 5050 | 62 F | 11.8 | 7.0 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1130 | 5050 | 25 | | | -- | | -- | -- | -- | 0 S | -- | -- | -- | -- | -- | -- | -- |
| 05/15/74 | 5050 | 15.0C | 10.6 | 7.4 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1430 | 5050 | 30 | | | -- | | -- | -- | -- | 2 S | -- | -- | -- | -- | -- | -- | -- |
| | | C1 1320.00 | | | BIG CREEK ABOVE PINE FLAT RESERVOIR | | | | | | | | | | | | |
| 10/10/73 | 5050 | 62 F | 11.5 | 7.6 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1345 | 5050 | 100 | | | -- | | -- | -- | -- | 0 S | -- | -- | -- | -- | -- | -- | -- |
| 05/15/74 | 5050 | 17.0C | 10.1 | 7.6 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1200 | 5050 | 60 | 2.19 | | -- | | -- | -- | -- | 2 S | -- | -- | -- | -- | -- | -- | -- |
| | | C1 1460.00 | | | KINGS RIVER BELOW NORTH FORK | | | | | | | | | | | | |
| 10/10/73 | 5050 | 57 F | 12.4 | 7.2 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1445 | 5050 | 50 | | | -- | | -- | -- | -- | 0 S | -- | -- | -- | -- | -- | -- | -- |
| 05/15/74 | 5050 | 11.5C | 11.3 | 7.1 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1300 | 5050 | 15 | | | -- | | -- | -- | -- | 8 S | -- | -- | -- | -- | -- | -- | -- |
| | | C1 4115.30 | | | KINGS RIVER SOUTH FORK AT CEDAR GROVE | | | | | | | | | | | | |
| 10/10/73 | 5050 | 42 F | 12.5 | 7.2 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 0900 | 5050 | 25 | | | -- | | -- | -- | -- | 0 S | -- | -- | -- | -- | -- | -- | -- |
| 05/15/74 | 5050 | 5.0C | 10.9 | 6.8 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 0730 | 5050 | 9 | | | -- | | -- | -- | -- | 6 S | -- | -- | -- | -- | -- | -- | -- |
| | | C2 1210.30 | | | KAWEAH RIVER ABOVE LAKE KAWEAH | | | | | | | | | | | | |
| 04/02/74 | 5050 | 52.0F | 11.9 | 7.2 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1300 | 5050 | | | | -- | | -- | -- | -- | 50 S | 8 | -- | -- | -- | -- | -- | -- |
| | | C2 2010.30 | | | KAWEAH RIVER NORTH FORK NEAR MOUTH | | | | | | | | | | | | |
| 04/02/74 | 5050 | 49.0F | 11.6 | 7.2 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1115 | 5050 | | | | -- | | -- | -- | -- | 115 S | 15 | -- | -- | -- | -- | -- | -- |
| | | C2 3147.00 | | | KAWEAH RIVER MF BELOW NO 2 INTAKE NR THREE RIVERS | | | | | | | | | | | | |
| 04/02/74 | 5050 | 45.0F | 12.6 | 7.4 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1015 | 5050 | | | | -- | | -- | -- | -- | 18 S | 2 | -- | -- | -- | -- | -- | -- |
| | | C2 4201.50 | | | KAWEAH RIVER SOUTH FORK ABOVE GROUSE CREEK | | | | | | | | | | | | |
| 04/02/74 | 5050 | 47.0F | 11.8 | 7.2 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1200 | 5050 | | | | -- | | -- | -- | -- | 16 S | 8 | -- | -- | -- | -- | -- | -- |
| | | C3 1929.30 | | | TULE RIVER BELOW SPRINGVILLE | | | | | | | | | | | | |
| 04/03/74 | 5050 | 49.0F | 12.7 | 7.6 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1230 | 5050 | | | | -- | | -- | -- | -- | 34 S | 9 | -- | -- | -- | -- | -- | -- |
| | | C3 2190.10 | | | TULE RIVER NORTH FORK AT BEAR CREEK ROAD | | | | | | | | | | | | |
| 04/03/74 | 5050 | 48.0F | 12.3 | 7.2 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1110 | 5050 | | | | -- | | -- | -- | -- | 14 S | 6 | -- | -- | -- | -- | -- | -- |
| | | C3 3200.00 | | | TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILL | | | | | | | | | | | | |
| 04/03/74 | 5050 | 44.0F | 12.7 | 7.6 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1040 | 5050 | | | | -- | | -- | -- | -- | 21 S | 6 | -- | -- | -- | -- | -- | -- |
| | | C3 4149.30 | | | TULE RIVER SOUTH FORK ABOVE CREW CREEK | | | | | | | | | | | | |
| 04/03/74 | 5050 | 48.0F | 12.6 | 7.3 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1315 | 5050 | | | | -- | | -- | -- | -- | 88 S | 12 | -- | -- | -- | -- | -- | -- |
| | | C5 1220.10 | | | KERN RIVER AT MIRACLE HOT SPRINGS | | | | | | | | | | | | |
| 04/10/74 | 5050 | 53 F | 11.9 | 8.4 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1420 | 5050 | 110 | | | -- | | -- | -- | -- | 7 S | 2 | -- | -- | -- | -- | -- | -- |
| | | C5 1500.00 | | | KERN RIVER AT KERNVILLE | | | | | | | | | | | | |
| 04/10/74 | 5050 | 44 F | 12.2 | 7.4 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1210 | 5050 | 60 | | | -- | | -- | -- | -- | 7 S | 1 | -- | -- | -- | -- | -- | -- |
| | | C5 1660.10 | | | KERN RIVER ABOVE FAIRVIEW | | | | | | | | | | | | |
| 04/10/74 | 5050 | 40 F | 12.1 | 7.4 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1015 | 5050 | 42 | | | -- | | -- | -- | -- | 8 S | 1 | -- | -- | -- | -- | -- | -- |
| | | C5 3110.10 | | | KERN RIVER SOUTH FORK NEAR WELDON | | | | | | | | | | | | |
| 04/10/74 | 5050 | 53 F | 10.4 | 7.2 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1320 | 5050 | 175 | | | -- | | -- | -- | -- | 25 S | 4 | -- | -- | -- | -- | -- | -- |

TABLE D-6

Nutrient Constituents of Surface Water

Table D-6 presents analyses which do not appear on Tables D-2, D-3, D-4, D-5, and D-7. Definitions of abbreviations used in this table are as follows:

| Abbreviations | |
|---|---|
| EC | Specific Electrical Conductance in Micromhos |
| TURB | Turbidity in Turbidity Units |
| $HCO_3$ | Bicarbonate |
| $CO_3$ | Carbonate |
| pH | Measurement of Acidity or Alkalinity of Water |
| $NO_2$ | Nitrite as N |
| $NO_3$ | Nitrate as N |
| $NH_3$ | Ammonia as N |
| OrgN | Organic Nitrogen |
| $NH_3$ + OrgN | Ammonia plus Organic Nitrogen as N (total Kjeldahl) |
| F $PO_4$ | Dissolved Orthophosphate as P |
| U $PO_4$ | Total Orthophosphate as P |
| U TOTP | Total Phosphate as P |

TABLE D-6

NUTRIENT ANALYSIS OF SURFACE WATER

| DATE TIME | SAMP LAB | G.H. DISCH. | TEMP DEPTH | FIELD LABORATORY PH | EC | FIELD TURB F-CO2 | FIELD CACO3 P CACO3 T | LAB HCO3 CO3 | NH3 | NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER NO2 NO3 | F ORG N U ORG N | F (NH3 + U ORG N) | DIS A.H.PO4 | F H3PO4 U H3PO4 | F TOT P U TOT P | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 3185.00 STANISLAUS RIVER AT KNIGHTS FERRY | | | | | | | | | | | | | | | | |
| 10/04/73 | 5050 | | 58.5F | 7.4 | | | | | | 0.01 | -- | -- | | 0.01 | -- | |
| 1530 | 5050 | | | | | 77 | | | -- | 0.00 | -- | 0.1 | -- | -- | 0.04 | |
| 06/19/74 | 5050 | | 16.0C | 7.3 | | 35 | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1300 | 5050 | | | | | 38 | | | -- | 0.02 | -- | 0.0 | -- | -- | 0.01 | |
| 09/26/74 | 5050 | | 23.2C | 7.3 | | 65 | | | | -- | -- | -- | | 0.01 | -- | |
| 0850 | 5050 | | | | | | | | -- | 0.01 | -- | 0.2 | -- | -- | 0.01 | |
| 20 4175.00 TUOLUMNE RIVER AT LA GRANGE BRIDGE | | | | | | | | | | | | | | | | |
| 10/25/73 | 5050 | | 56 F | 6.8 | | 30 | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 1330 | 5050 | | | | | 33 | | | -- | 0.09 | -- | 0.0 | -- | -- | 0.01 | |
| 06/05/74 | 5050 | | 15.5C | 7.1 | | 28 | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 1300 | 5050 | | | | | 49 | | | -- | 0.06 | -- | 0.1 | -- | -- | 0.01 | |
| 09/11/74 | 5050 | | 13.4C | 6.9 | | 34 | | | | -- | -- | -- | | 0.00 | -- | |
| 1735 | 5050 | | | | | | | | -- | 0.09 | -- | 0.2 | -- | -- | 0.01 | |
| 20 5168.50 CANAL CREEK AT OAKDALE ROAD | | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 62 F | 6.8 | | | | | | -- | -- | -- | | -- | -- | |
| 1315 | 5050 | 0.1 | | | | | | | 1.7 | 0.05 | 6.4 | 8.1 | -- | -- | 1.5 | |
| 03/27/74 | 5050 | | 55.6F | 7.2 | | | | | | -- | -- | -- | | -- | -- | |
| 1335 | 5050 | 5.0 | | | | | | | 0.00 | 0.03 | 0.2 | 0.2 | -- | -- | 0.02 | |
| 04/24/74 | 5050 | | 53.5F | 7.3 | | | | | | -- | -- | -- | | -- | -- | |
| 1400 | 5050 | 50 | | | | | | | 0.01 | 0.06 | 0.1 | 0.11 | -- | -- | 0.03 | |
| 05/23/74 | 5050 | | 57 F | 7.3 | | | | | | -- | -- | -- | | -- | -- | |
| 1230 | 5050 | 60 | | | | | | | 0.00 | 0.03 | 0.2 | 0.2 | -- | -- | 0.07 | |
| 06/26/74 | 5050 | | 57 F | 7.2 | | | | | | -- | -- | -- | | -- | -- | |
| 1000 | 5050 | | | | | | | | 0.00 | 0.04 | 0.2 | 0.2 | -- | -- | 0.05 | |
| 20 6363.50 DUTCHMAN CREEK AT BAXTER ROAD | | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 53 F | 7.6 | | | | | | -- | -- | -- | | -- | -- | |
| 0700 | 5050 | 0.1 | | | | | | | 0.14 | 0.06 | 0.6 | 0.74 | -- | -- | 0.11 | |
| 03/25/74 | 5050 | | 58.0F | 7.4 | | | | | | -- | -- | -- | | -- | -- | |
| 0715 | 5050 | 0.1 | | | | | | | 0.03 | 0.01 | 0.6 | 0.63 | -- | -- | 0.12 | |
| 20 6390.50 DEADMAN CREEK AT BAXTER ROAD | | | | | | | | | | | | | | | | |
| 02/27/74 | 5050 | | 54 F | 7.3 | | | | | | -- | -- | -- | | -- | -- | |
| 0745 | 5050 | 0.2 | | | | | | | 0.08 | 0.19 | 0.1 | 0.18 | -- | -- | 0.11 | |
| 03/27/74 | 5050 | | 59.0F | 7.5 | | | | | | -- | -- | -- | | -- | -- | |
| 0730 | 5050 | 0.1 | | | | | | | 0.02 | 0.04 | 0.9 | 0.92 | -- | -- | 0.10 | |
| 04/24/74 | 5050 | | 57 F | 7.7 | | | | | | -- | -- | -- | | -- | -- | |
| 0745 | 5050 | 0.1 | | | | | | | 0.01 | 0.03 | 0.5 | 0.51 | -- | -- | 0.05 | |
| 20 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS | | | | | | | | | | | | | | | | |
| 10/18/73 | 5050 | 12.17 | 18.0C | 7.2 | 390 | 200 | | 105 | | -- | -- | -- | | -- | -- | |
| 0745 | 5000 | | | 7.7 | 444 | 4 | 86 | 0.0 | -- | -- | -- | -- | -- | -- | 0.52 | |
| 11/16/73 | 5050 | 13.50 | 13.0C | 7.4 | 500 | 200 | | 130 | | -- | -- | -- | | -- | -- | |
| 0830 | 5000 | | | | | 8 | 107 | 0 | -- | -- | -- | -- | -- | -- | 0.25 | |
| 12/19/73 | 5050 | 12.67 | 9.0C | 7.2 | 350 | 90 | | 78 | | -- | -- | -- | | -- | -- | |
| 0900 | 5000 | | | | | 5 | 64 | 0 | -- | -- | -- | -- | -- | -- | 0.10 | |
| 01/30/74 | 5050 | 12.42 | 8.5C | 7.2 | 150 | 200 | | 65 | | -- | -- | -- | | -- | -- | |
| 0800 | 5000 | | | | 417 | 1 | 56 | 0 | -- | -- | -- | -- | -- | -- | 0.16 | |
| 02/22/74 | 5050 | 13.59 | 9.0C | 7.3 | 350 | 200 | | 90 | | -- | -- | -- | | -- | -- | |
| 0740 | 5000 | | | | | 7 | 74 | | -- | -- | -- | -- | -- | -- | 0.16 | |
| 03/21/74 | 5050 | 13.90 | 13.0C | 7.2 | 500 | 200 | | 92 | | -- | -- | -- | | -- | -- | |
| 0730 | 5000 | | | | | 9 | 75 | | -- | -- | -- | -- | -- | -- | 0.18 | |
| 04/18/74 | 5050 | 15.32 | 14.0C | 7.7 | 400 | 200 | | 75 | | -- | -- | -- | | -- | -- | |
| 0730 | 5000 | | | | | 2 | 62 | | -- | -- | -- | -- | -- | -- | 0.16 | |
| 05/24/74 | 5050 | 12.40 | 20 C | 7.6 | 500 | 400 | | 115 | | -- | -- | -- | | -- | -- | |
| 0800 | 5000 | | | | | 5 | 94 | | -- | -- | -- | -- | -- | -- | 0.30 | |
| 06/20/74 | 5050 | 13.38 | 20 C | 7.2 | 401 | 300 | | 86 | | -- | -- | -- | | -- | -- | |
| 0645 | 5000 | | | | | 4 | 72 | | -- | -- | -- | -- | -- | -- | 0.22 | |
| 07/25/74 | 5050 | 10.55 | 27 C | 7.6 | 400 | 400 | | 154 | | -- | -- | -- | | -- | -- | |
| 0735 | 5000 | | | | | | | | -- | -- | -- | -- | -- | -- | 0.31 | |
| 20 7385.00 SAN JOAQUIN RIVER AT FRIANT DAM | | | | | | | | | | | | | | | | |
| 10/16/73 | 5050 | 2.20 | 57 F | 7.2 | | 38 | | | | 0.00 | -- | -- | | 0.04 | -- | |
| 1315 | 5050 | | | | | 46 | | | -- | 0.09 | -- | 0.3 | -- | -- | 0.08 | |
| 20 7386.50 SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE | | | | | | | | | | | | | | | | |
| 10/16/73 | 5050 | | 52 F | 7.2 | | 40 | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 1200 | 5050 | | | | | 47 | | | -- | 0.10 | -- | 0.1 | -- | -- | 0.02 | |
| 06/11/74 | 5050 | | 91.0F | 7.8 | | 22 | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 1130 | 5050 | | | | | 40 | | | -- | 0.05 | -- | 0.1 | -- | -- | 0.02 | |
| 83 1400.50 STANISLAUS RIVER AT PARROTTS FERRY BRIDGE | | | | | | | | | | | | | | | | |
| 10/04/73 | 5050 | | 57.0F | 7.4 | | | | | | 0.01 | -- | -- | | 0.00 | -- | |
| 1340 | 5050 | | | | | 41 | | | -- | 0.05 | -- | 0.1 | -- | -- | 0.01 | |
| 06/19/74 | 5050 | | 13.3C | 7.2 | | 30 | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1020 | 5050 | | | | | 38 | | | -- | 0.01 | -- | 0.0 | -- | -- | 0.01 | |
| 09/25/74 | 5050 | | 16.2C | 7.6 | | 38 | | | | -- | -- | -- | | 0.00 | -- | |
| 1715 | 5050 | | | | | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.01 | |

TABLE D-6 (Cont'd)

NUTRIENT ANALYSIS OF SURFACE WATER

| DATE TIME | SAMP LAB | G.H. DISCH. | TEMP | DEPTH | FIELD PH | LABORATORY EC | TURB | FIELD CACO3 F-CO2 | P CACO3 T | LAB HCO3 CO3 | NH3 | NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER NO2 NO3 | F ORG N U (PG N | F (NH3 + U ORG N) | OTS A.H.PO4 | F H3PO4 U H3PO4 | F TOT P U TOT P | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | |
| | 83 | 2110.10 | | | STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PAR | | | | | | | | | | | | | |
| 10/04/73 | 5050 | | 51.5F | 7.2 | | | | | | | | 0.01 | -- | -- | | 0.00 | -- | |
| 1200 | 5050 | | | | | 48 | | | | | -- | 0.00 | -- | 0.2 | -- | -- | 0.00 | |
| 06/19/74 | 5050 | | 13.0C | 7.1 | | 20 | | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1230 | 5050 | | | | | 25 | | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.01 | |
| 09/25/74 | 5050 | | 17.0C | 7.2 | | 33 | | | | | | -- | -- | -- | | 0.00 | -- | |
| 1515 | 5050 | | | | | | | | | | -- | 0.00 | -- | 0.2 | -- | -- | 0.01 | |
| | 83 | 3255.00 | | | STANISLAUS RIVER MIDDLE FORK AT BEARDSLEY | | | | | | | | | | | | | |
| 10/04/73 | 5050 | | 51.5F | 7.4 | | | | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0945 | 5050 | | | | | 51 | | | | | -- | 0.00 | -- | 0.1 | -- | -- | 0.01 | |
| 06/19/74 | 5050 | | 11.4C | 7.1 | | 26 | | | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 0630 | 5050 | | | | | 37 | | | | | -- | 0.02 | -- | 0.0 | -- | -- | 0.01 | |
| 09/25/74 | 5050 | | 14.0C | 7.3 | | 46 | | | | | | -- | -- | -- | | 0.00 | -- | |
| 0805 | 5050 | | | | | | | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.01 | |
| | 83 | 3480.10 | | | STANISLAUS RIVER MIDDLE FORK AT DARDANELLE | | | | | | | | | | | | | |
| 10/04/73 | 5050 | | 43.5F | 7.2 | | | | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0730 | 5050 | | | | | 66 | | | | | -- | 0.00 | -- | 0.2 | -- | -- | 0.01 | |
| 06/19/74 | 5050 | | 7.0C | 7.1 | | 23 | | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0800 | 5050 | | | | | 34 | | | | | -- | 0.02 | -- | 0.0 | -- | -- | 0.02 | |
| 09/21/74 | 5050 | | 11.2C | 7.3 | | 56 | | | | | | -- | -- | -- | | 0.00 | -- | |
| 1020 | 5050 | | | | | | | | | | -- | 0.00 | -- | 0.2 | -- | -- | 0.01 | |
| | 84 | 1232.50 | | | WOODS CREEK AT SLATE CREEK | | | | | | | | | | | | | |
| 10/25/73 | 5050 | | 55.0F | 8.0 | | 188 | 36 | | | | | 0.03 | 0.5 | -- | | 0.65 | -- | |
| 1200 | 5050 | | | | | | | | | | 0.01 | 0.61 | -- | -- | -- | -- | 0.68 | |
| 11/15/73 | 5050 | | 53.5F | 8.0 | | | | | | | | 0.03 | -- | -- | | 0.49 | -- | |
| 1230 | 5050 | | | | | | | | | | 0.02 | 1.1 | 0.5 | 0.52 | -- | -- | 0.49 | |
| | 84 | 1235.50 | | | WOODS CREEK BELOW JAMESTOWN STP | | | | | | | | | | | | | |
| 10/25/73 | 5050 | | 54.0F | 7.8 | | 210 | 38 | | | | | 0.21 | 0.4 | -- | | 0.92 | -- | |
| 0945 | 5050 | | | | | | | | | | 0.18 | 0.81 | -- | -- | -- | -- | 0.96 | |
| 11/15/73 | 5050 | | 52.0F | 7.8 | | | | | | | | 0.07 | -- | -- | | 0.76 | -- | |
| 1145 | 5050 | | | | | | | | | | 0.26 | 1.2 | 0.5 | 0.76 | -- | -- | 0.81 | |
| | 84 | 1232.50 | | | WOODS CREEK BELOW SONORA STP | | | | | | | | | | | | | |
| 10/25/73 | 5050 | | 52.0F | 7.9 | | 210 | 40 | | | | | 0.92 | 0.4 | -- | | 1.2 | -- | |
| 0930 | 5050 | | | | | | | | | | 1.2 | 0.61 | -- | -- | -- | -- | 1.3 | |
| 11/15/73 | 5050 | | 51.0F | 7.7 | | | | | | | | 0.08 | -- | -- | | 0.75 | -- | |
| 1130 | 5050 | | | | | | | | | | 1.4 | 0.64 | 0.6 | 2.0 | -- | -- | 0.76 | |
| | 84 | 1232.50 | | | WOODS CREEK AT COUNTY FAIRGROUNDS | | | | | | | | | | | | | |
| 10/25/73 | 5050 | | 52.5F | 7.7 | | 270 | 28 | | | | | 0.01 | 0.2 | -- | | 0.03 | -- | |
| 0900 | 5050 | 1.4 | | | | | | | | | 0.00 | 0.34 | -- | -- | -- | -- | 0.04 | |
| 11/15/73 | 5050 | | 52.0F | 7.8 | | | | | | | | 0.00 | -- | -- | | 0.02 | -- | |
| 1000 | 5050 | | | | | | | | | | 0.00 | 0.55 | 0.1 | 0.1 | -- | -- | 0.03 | |
| | 84 | 1241.50 | | | WOODS CREEK AT JACK PAGE ROAD ABOVE SONORA | | | | | | | | | | | | | |
| 10/25/73 | 5050 | | 52.0F | 7.3 | | 200 | 28 | | | | | 0.00 | 0.2 | -- | | 0.01 | -- | |
| 0830 | 5050 | | | | | | | | | | 0.00 | 0.13 | -- | -- | -- | -- | 0.09 | |
| 11/15/73 | 5050 | | 56.0F | 7.4 | | | | | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 0940 | 5050 | | | | | | | | | | 0.01 | 0.32 | 0.2 | 0.21 | -- | -- | 0.02 | |
| | 84 | 1290.10 | | | TUOLUMNE RIVER AT WARDS FERRY BRIDGE | | | | | | | | | | | | | |
| 10/25/73 | 5050 | | 54 F | 6.8 | | 15 | | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0800 | 5050 | | | | | 14 | | | | | -- | 0.00 | -- | 0.1 | -- | -- | 0.02 | |
| 09/11/74 | 5050 | | 27.0C | 7.2 | | 60 | | | | | | -- | -- | -- | | 0.00 | -- | |
| 1500 | 5050 | | | | | | | | | | -- | 0.00 | -- | 0.4 | -- | -- | 0.02 | |
| | 84 | 1680.00 | | | TUOLUMNE RIVER ABOVE EARLY INTAKE | | | | | | | | | | | | | |
| 10/25/73 | 5050 | | 54 F | 7.0 | | 10 | | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1115 | 5050 | | | | | 11 | | | | | -- | 0.00 | -- | 0.1 | -- | -- | 0.00 | |
| 06/05/74 | 5050 | | 10.2C | 7.0 | | 10 | | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0915 | 5050 | | | | | 11 | | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.00 | |
| 09/11/74 | 5050 | | 15.2C | 7.2 | | 10 | | | | | | -- | -- | -- | | 0.00 | -- | |
| 1215 | 5050 | | | | | | | | | | -- | 0.03 | -- | 0.0 | -- | -- | 0.00 | |
| | 84 | 1850.10 | | | TUOLUMNE RIVER AT TUOLUMNE MEADOWS | | | | | | | | | | | | | |
| 06/05/74 | 5050 | | 5.5C | 7.0 | | 8 | | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0645 | 5050 | | | | | 11 | | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.00 | |
| 09/11/74 | 5050 | | 13.0C | 7.1 | | 28 | | | | | | -- | -- | -- | | 0.00 | -- | |
| 0915 | 5050 | | | | | | | | | | -- | 0.00 | -- | 0.1 | -- | -- | 0.00 | |
| | 85 | 1320.00 | | | MERCED RIVER AT BAGBY | | | | | | | | | | | | | |
| 05/08/74 | 5050 | | 12.0C | 8.9 | | 18 | | | | | | 0.00 | -- | -- | | 0.02 | -- | |
| 0630 | 5050 | | | | | 13 | | | | | -- | 0.03 | -- | 0.2 | -- | -- | 0.04 | |

TABLE D-6 (Cont'd)

NUTRIENT ANALYSIS OF SURFACE WATER

| DATE TIME | SAMP LAB | G.H. DISCH. | TEMP DEPTH | FIELD PH | FIELD LABORATORY EC | TURB F-CO2 | FIELD CACO3 P CACO3 T | LAB HCO3 CO3 | NH3 | NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER NO2 NO3 | F ORG N U ORG N | F (NH3 + ORG N) U ORG N) | DIS A.H.PO4 | F H3PO4 U H3PO4 | F TOT P U TOT P | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |
| | | B5 1410.10 | | | MERCED RIVER ABOVE BRICEBURG | | | | | | | | | | | |
| 05/08/74 | 5050 | 10.60 | 5.5C | 6.8 | 9 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0730 | 5050 | | | | 11 | | | | -- | 0.04 | -- | 0.1 | -- | -- | 0.03 | |
| | | B5 1517.10 | | | MERCED RIVER BELOW EL PORTAL | | | | | | | | | | | |
| 05/08/74 | 5050 | | 8.0C | 6.8 | 8 | | | | | 0.00 | -- | -- | | 0.02 | -- | |
| 0810 | 5050 | | | | 4 | | | | -- | 0.04 | -- | 0.1 | -- | -- | 0.03 | |
| | | B5 1519.50 | | | MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140 | | | | | | | | | | | |
| 05/08/74 | 5050 | | 8.0C | 6.8 | 5 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0900 | 5050 | | | | 10 | | | | -- | 0.04 | -- | 0.1 | -- | -- | 0.02 | |
| | | B5 1700.00 | | | MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE | | | | | | | | | | | |
| 05/08/74 | 5050 | 6.23 | 8.0C | 6.6 | 8 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0930 | 5050 | | | | 6 | | | | -- | 0.04 | -- | 0.1 | -- | -- | 0.02 | |
| | | B5 5152.10 | | | BEAR CREEK ABOVE BEAR CREEK RESERVOIR | | | | | | | | | | | |
| 02/27/74 | 5050 | | 51 F | 7.6 | | | | | | -- | -- | -- | | -- | -- | |
| 1100 | 5050 | 7 | | | | | | | 0.01 | 0.02 | 0.1 | 0.11 | -- | -- | 0.04 | |
| 03/27/74 | 5050 | | 60 F | 8.0 | | | | | | -- | -- | -- | | -- | -- | |
| 1100 | 5050 | 12 | | | | | | | 0.00 | 0.00 | 0.1 | 0.1 | -- | -- | 0.02 | |
| 04/24/74 | 5050 | | 64.0F | 8.2 | | | | | | -- | -- | -- | | -- | -- | |
| 1200 | 5050 | 20 | | | | | | | 0.00 | 0.02 | 0.2 | 0.2 | -- | -- | 0.03 | |
| 05/23/74 | 5050 | | 73 F | 8.2 | | | | | | -- | -- | -- | | -- | -- | |
| 1030 | 5050 | 3 | | | | | | | 0.00 | 0.01 | 0.2 | 0.2 | -- | -- | 0.02 | |
| | | B5 6152.51 | | | BURNS CREEK AT MERCED-MARIPOSA COUNTY LINE | | | | | | | | | | | |
| 02/27/74 | 5050 | | 54.0F | 7.5 | | | | | | -- | -- | -- | | -- | -- | |
| 1010 | 5050 | 5 | | | | | | | 0.01 | 0.02 | 0.2 | 0.21 | -- | -- | 0.04 | |
| 03/27/74 | 5050 | | 59.0F | 7.0 | | | | | | -- | -- | -- | | -- | -- | |
| 0845 | 5050 | 7 | | | | | | | 0.00 | 0.01 | 0.2 | 0.2 | -- | -- | 0.03 | |
| 04/24/74 | 5050 | | 59.0F | 7.6 | | | | | | -- | -- | -- | | -- | -- | |
| 0800 | 5050 | 5 | | | | | | | 0.00 | 0.05 | 0.3 | 0.3 | -- | -- | 0.04 | |
| 05/23/74 | 5050 | | 67 F | 7.6 | | | | | | -- | -- | -- | | -- | -- | |
| 0745 | 5050 | 0.1 | | | | | | | 0.00 | 0.01 | 0.2 | 0.2 | -- | -- | 0.02 | |
| | | B6 2020.10 | | | OWENS CREEK ABOVE OWENS RESERVOIR | | | | | | | | | | | |
| 02/27/74 | 5050 | | 54 F | 7.9 | | | | | | -- | -- | -- | | -- | -- | |
| 0825 | 5050 | 2.5 | | | | | | | 0.01 | 0.02 | 0.3 | 0.31 | -- | -- | 0.04 | |
| 03/27/74 | 5050 | | 63.0F | 8.2 | | | | | | -- | -- | -- | | -- | -- | |
| 1030 | 5050 | 8 | | | | | | | 0.00 | 0.00 | 0.3 | 0.3 | -- | -- | 0.05 | |
| 04/24/74 | 5050 | | 65 F | 8.5 | | | | | | -- | -- | -- | | -- | -- | |
| 1125 | 5050 | 5 | | | | | | | 0.01 | 0.01 | 0.4 | 0.41 | -- | -- | 0.04 | |
| 05/23/74 | 5050 | | 76 F | 8.2 | | | | | | -- | -- | -- | | -- | -- | |
| 0945 | 5050 | 3 | | | | | | | 0.00 | 0.01 | 0.4 | 0.4 | -- | -- | 0.02 | |
| 06/26/74 | 5050 | | 63 F | | | | | | | -- | -- | -- | | -- | -- | |
| 0530 | 5050 | | | | | | | | 0.03 | 0.01 | 0.4 | 0.43 | -- | -- | 0.03 | |
| | | B6 2204.10 | | | MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR | | | | | | | | | | | |
| 02/27/74 | 5050 | | 52.0F | 7.8 | | | | | | -- | -- | -- | | -- | -- | |
| 0845 | 5050 | 15 | | | | | | | 0.01 | 0.02 | 0.2 | 0.21 | -- | -- | 0.03 | |
| 03/27/74 | 5050 | | 50.0F | 8.0 | | | | | | -- | -- | -- | | -- | -- | |
| 0945 | 5050 | 20.0 | | | | | | | 0.00 | 0.00 | 0.2 | 0.2 | -- | -- | 0.06 | |
| 04/24/74 | 5050 | | 62 F | 8.0 | | | | | | -- | -- | -- | | -- | -- | |
| 1125 | 5050 | 15 | | | | | | | 0.00 | 0.02 | 0.2 | 0.2 | -- | -- | 0.04 | |
| 05/23/74 | 5050 | | 71.0F | 8.0 | | | | | | -- | -- | -- | | -- | -- | |
| 0900 | 5050 | 10 | | | | | | | 0.02 | 0.01 | 0.3 | 0.32 | -- | -- | 0.04 | |
| | | B7 1340.00 | | | SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY | | | | | | | | | | | |
| 10/17/73 | 5050 | | 60 F | 8.8 | 30 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0750 | 5050 | | | | 28 | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.01 | |
| 06/12/74 | 5050 | | 92.0F | 7.0 | 16 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1130 | 5050 | | | | 17 | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.01 | |
| | | B7 1532.50 | | | SAN JOAQUIN RIVER BELOW SHAKEFLAT CREEK | | | | | | | | | | | |
| 10/17/73 | 5050 | | 61 F | 7.2 | 50 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1210 | 5050 | | | | 55 | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.01 | |
| 06/12/74 | 5050 | | 92.0F | 7.0 | 15 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0830 | 5050 | | | | 17 | | | | -- | 0.00 | -- | 0.1 | -- | -- | 0.01 | |
| | | B7 4250.50 | | | SAN JOAQUIN RIVER SOUTH FORK AT MONO HOT SPRINGS | | | | | | | | | | | |
| 10/16/73 | 5050 | | 48 F | 7.0 | 32 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0845 | 5050 | | | | 33 | | | | -- | 0.00 | -- | 0.1 | -- | -- | 0.00 | |
| 06/11/74 | 5050 | | 73.0F | 7.0 | 8 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0815 | 5050 | | | | 8 | | | | -- | 0.02 | -- | 0.0 | -- | -- | 0.00 | |
| | | C0 2550.30 | | | KAWEAH RIVER AT LEMONCOVE | | | | | | | | | | | |
| 04/02/74 | 5050 | | 55 F | 7.4 | | | | | | 0.00 | -- | -- | | 0.12 | -- | |
| 1400 | 5050 | | | | 124. | | | | -- | 0.24 | -- | 0.9 | -- | -- | 0.33 | |
| | | C0 3195.00 | | | TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE | | | | | | | | | | | |
| 04/03/74 | 5050 | | 49.0F | 8.4 | | | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 1350 | 5050 | | | | 186 | | | | -- | 0.08 | -- | 0.3 | -- | -- | 0.03 | |

TABLE D-6 (Cont'd)

NUTRIENT ANALYSIS OF SURFACE WATER

| DATE TIME | SAMP LAB | G.H. DISCH. | TEMP DEPTH | FIELD LABORATORY PH | EC | FIELD TURB F-CO2 | LAB CACO3 P CACO3 T | HCO3 CO3 | NH3 | NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER NO2 NO3 | F ORG N U ORG N | F (NH3 + U ORG N) | DIS A.H.PO4 | F H3PO4 U H3PO4 | F TOT P U TOT P | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | C0 5160.10 | | KERN RIVER AT HART PARK | | | | | | | | | | | | |
| 04/11/74 | 5050 | | 55 F | 7.7 | 122 | | | | | 0.00 | -- | -- | | 0.03 | -- | |
| 0930 | 5050 | | | | 155 | | | | -- | 0.06 | -- | 0.3 | -- | -- | 0.04 | |
| | | C0 5180.10 | | KERN RIVER AT RANCHERIA BRIDGE | | | | | | | | | | | | |
| 04/11/74 | 5050 | | 53 F | 7.8 | 120 | | | | | 0.00 | -- | -- | | 0.02 | -- | |
| 0835 | 5050 | | | | 156 | | | | -- | 0.11 | -- | 0.3 | -- | -- | 0.06 | |
| | | C1 1115.50 | | KINGS RIVER NEAR PIEDRA | | | | | | | | | | | | |
| 10/10/73 | 5050 | | 62 F | 7.0 | 25 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1130 | 5050 | | | | 27 | | | | -- | 0.04 | -- | 0.1 | -- | -- | 0.00 | |
| 05/15/74 | 5050 | | 15.0C | 7.4 | 30 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1430 | 5050 | | | | 38 | | | | -- | 0.00 | -- | 0.1 | -- | -- | 0.02 | |
| | | C1 1320.00 | | BIG CREEK ABOVE PINE FLAT RESERVOIR | | | | | | | | | | | | |
| 10/10/73 | 5050 | | 62 F | 7.6 | 100 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1345 | 5050 | | | | 124 | | | | -- | 0.01 | -- | 0.3 | -- | -- | 0.01 | |
| 05/15/74 | 5050 | 2.19 | 17.0C | 7.6 | 60 | | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 1200 | 5050 | | | | 65 | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.02 | |
| | | C1 1460.00 | | KINGS RIVER BELOW NORTH FORK | | | | | | | | | | | | |
| 10/10/73 | 5050 | | 57 F | 7.2 | 50 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1445 | 5050 | | | | 54 | | | | -- | 0.01 | -- | 0.1 | -- | -- | 0.00 | |
| 05/15/74 | 5050 | | 11.5C | 7.1 | 15 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 1300 | 5050 | | | | 18 | | | | -- | 0.04 | -- | 0.1 | -- | -- | 0.01 | |
| | | C1 4115.30 | | KINGS RIVER SOUTH FORK AT CEDAR GROVE | | | | | | | | | | | | |
| 10/10/73 | 5050 | | 42 F | 7.2 | 25 | | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 0900 | 5050 | | | | 49 | | | | -- | 0.01 | -- | 0.0 | -- | -- | 0.01 | |
| 05/15/74 | 5050 | | 5.0C | 6.8 | 9 | | | | | 0.00 | -- | -- | | 0.00 | -- | |
| 0730 | 5050 | | | | 15 | | | | -- | 0.03 | -- | 0.0 | -- | -- | 0.01 | |
| | | C2 1210.30 | | KAWEAH RIVER ABOVE LAKE KAWEAH | | | | | | | | | | | | |
| 04/02/74 | 5050 | | 52 F | 7.2 | | | | | | 0.01 | -- | -- | | 0.03 | -- | |
| 1300 | 5050 | | | | 76 | | | | -- | 0.08 | -- | 0.4 | -- | -- | 0.08 | |
| | | C2 2010.30 | | KAWEAH RIVER NORTH FORK NEAR MOUTH | | | | | | | | | | | | |
| 04/02/74 | 5050 | | 49 F | 7.2 | | | | | | 0.01 | -- | -- | | 0.04 | -- | |
| 1115 | 5050 | | | | 77 | | | | -- | 0.10 | -- | 0.5 | -- | -- | 0.14 | |
| | | C2 3147.00 | | KAWEAH RIVER MF BELOW NO 2 INTAKE NR THREE RIVERS | | | | | | | | | | | | |
| 04/02/74 | 5050 | | 45 F | 7.4 | | | | | | 0.02 | -- | -- | | 0.01 | -- | |
| 1015 | 5050 | | | | 53 | | | | -- | 0.06 | -- | 0.2 | -- | -- | 0.02 | |
| | | C2 4201.50 | | KAWEAH RIVER SOUTH FORK ABOVE GROUSE CREEK | | | | | | | | | | | | |
| 04/02/74 | 5050 | | 47 F | 7.2 | | | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 1200 | 5050 | | | | 63 | | | | -- | 0.08 | -- | 0.3 | -- | -- | 0.04 | |
| | | C3 1929.30 | | TULE RIVER BELOW SPRINGVILLE | | | | | | | | | | | | |
| 04/03/74 | 5050 | | 49.0F | 7.6 | | | | | | 0.00 | -- | -- | | 0.02 | -- | |
| 1230 | 5050 | | | | 114 | | | | -- | 0.11 | -- | 0.2 | -- | -- | 0.04 | |
| | | C3 2190.10 | | TULE RIVER NORTH FORK AT BEAR CREEK ROAD | | | | | | | | | | | | |
| 04/03/74 | 5050 | | 48.0F | 7.2 | | | | | | 0.01 | -- | -- | | 0.01 | -- | |
| 1110 | 5050 | | | | 61 | | | | -- | 0.12 | -- | 0.2 | -- | -- | 0.02 | |
| | | C3 3200.00 | | TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILL | | | | | | | | | | | | |
| 04/03/74 | 5050 | | 44.0F | 7.6 | | | | | | 0.01 | -- | -- | | 0.00 | -- | |
| 1040 | 5050 | | | | 128 | | | | -- | 0.05 | -- | 0.2 | -- | -- | 0.03 | |
| | | C3 4149.30 | | TULE RIVER SOUTH FORK ABOVE CREW CREEK | | | | | | | | | | | | |
| 04/03/74 | 5050 | | 48.0F | 7.3 | | | | | | 0.00 | -- | -- | | 0.02 | -- | |
| 1315 | 5050 | | | | 98 | | | | -- | 0.29 | -- | 0.4 | -- | -- | 0.12 | |
| | | C5 1220.10 | | KERN RIVER AT MIRACLE HOT SPRINGS | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 53 F | 8.4 | 110 | | | | | 0.00 | -- | -- | | 0.02 | -- | |
| 1420 | 5050 | | | | 141 | | | | -- | 0.02 | -- | 0.2 | -- | -- | 0.03 | |
| | | C5 1500.00 | | KERN RIVER AT KERNVILLE | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 44 F | 7.4 | 60 | | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 1210 | 5050 | | | | 86 | | | | -- | 0.02 | -- | 0.1 | -- | -- | 0.02 | |
| | | C5 1660.10 | | KERN RIVER ABOVE FAIRVIEW | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 40 F | 7.4 | 42 | | | | | 0.00 | -- | -- | | 0.01 | -- | |
| 1015 | 5050 | | | | 84 | | | | -- | 0.05 | -- | 0.1 | -- | -- | 0.02 | |
| | | C5 3110.10 | | KERN RIVER SOUTH FORK NEAR WELDON | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 53 F | 7.2 | 175 | | | | | 0.00 | -- | -- | | 0.04 | -- | |
| 1320 | 5050 | | | | 169 | | | | -- | 0.02 | -- | 0.3 | -- | -- | 0.11 | |

TABLE D-7

PESTICIDES IN SURFACE WATER

Table D-7 represents the pesticides found in the San Joaquin Valley floor. The samples were collected and analyzed by the Department of Water Resources.

TABLE D-7

PESTICIDES IN SURFACE WATER
COMPOUNDS REPORTED IN NANOGRAMS/LITER

| DATE TIME | SAMP LAB | TEMP DO EC | DO PH | G.H. DEP DISCHARGE | CHLORINATED HYDROCARBON | ORGANIC PHOSPHORUS | | OTHER | REM |
|---|---|---|---|---|---|---|---|---|---|
| | | 80 0470.00 | | | SALT SLOUGH NR STEVINSON | | | | |
| 05/23/74 | 5050 | 21 C | | | 50 UNKNOWN | 310 DIAZINON | 25 PHOSORIN | | |
| 0945 | 5050 | 1000 | 7.2 | | | 60 UNKNOWN | | | |
| 08/21/74 | 5050 | 24 C | | | 770 UNKNOWNS | NONE DETECTED | | | |
| 1030 | 5050 | 1100 | 7.4 | | | | | | |
| | | 80 7020.00 | | | SAN JOAQUIN RIVER NEAR VERNALIS | | | | |
| 05/24/74 | 5050 | 20 C | 8.5 | 12.40 | 140 DACTHAL | 10 DIAZINON | | | |
| 0800 | | 500 | 7.6 | | | | | | |
| 08/22/74 | 5050 | 23 C | 7.4 | 10.95 | 90 UNKNOWNS | NONE DETECTED | | | |
| 0750 | 5050 | 600 | 7.2 | | | | | | |
| | | 80 7375.00 | | | SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE | | | | |
| 05/23/74 | 5050 | 21 C | | | 45 UNKNOWN | 60 PHORATE | 60 DIAZINON | | |
| 1000 | 5050 | 1100 | 7.3 | | | 10 UNKNOWN | | | |
| 08/21/74 | 5050 | 25 C | | | 40 UNKNOWNS | NONE DETECTED | | | |
| 1055 | 5050 | 1200 | 8.0 | | | | | | |

# Appendix ~~TABLE E-1~~ E

## ~~MINERAL ANALYSES OF~~ GROUND WATER QUALITY

This table presents data resulting from the collection and analyses of ground water by various agencies and laboratories cooperating with this program. The code numbers listed below will identify these program cooperators as they appear in this tabulation:

5050 California Department of Water Resources

5060 California Department of Health

5119 Kern County Health Department

5121 Kern County Water Agency

5129 Kings County Water District

5205 City of Delano

5647 Tehachapi-Cummings Water District

5701 California Water Service Company

5702 Individual Owner

5703 Valley Waste Disposal Company

5720 Bakeman Water Company

5801 Braun, Skaggs, Kevorkian and Simons Laboratory

5802 Twining Laboratory

5803 Hornkohl Laboratory

5806 B. C. Laboratory

5819 Brown and Caldwell Laboratory

### Chemical Symbols

| | | | |
|---|---|---|---|
| B | Boron | K | Potassium |
| CA | Calcium | Mg | Magnesium |
| Cl | Chloride | NA | Sodium |
| $CO_3$ | Carbonate | $NO_3$ | Nitrate |
| F | Fluoride | $SiO_2$ | Silica |
| $HCO_3$ | Bicarbonate | $SO_4$ | Sulfate |

### Abbreviations

EC Specific Electrical Conductance

NCH Non-Carbonate Hardness

SAR Sodium Adsorption Ratio

SUM Sum of Mineral Constituents

TH Total Hardness

TDS Total Dissolved Solids

REM Remarks as follows:

- T Indicates the TDS does not fall within 20 percent of the calculated SUM of the constituents.
- E Indicates the TDS value is not within the range of 0.35 to 0.70 of the lab electrical conductivity.
- S Indicates the anion sum and cation sum for a complete analysis are not within the prescribed tolerance of ±5 percent.
- C Indicates the lab electrical conductivity divided by the EC-EPM factor (or if absent, 100) is not within 20 percent of the average of the cation sum and anion sum for a complete analysis.
- X Indicates the field electrical conductivity and the lab electrical conductivity are not within 20 percent of each other.

TEMP Water Temperature at Time of Field Sampling

F Fahrenheit
C Celsius

TIME Pacific Standard Time on a 24-Hour Clock

PH Measure of Acidity or Alkalinity

TURB Turbidity in Turbidity Units

## INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the ~~1973~~ 1974 water year (October 1, ~~1972~~ 1973, through September 30, ~~1973~~ 1974). These data were obtained from analyses of water samples from approximately 500 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 13th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 123. A 40-acre tract may contain a well that has not been assigned a state number or may have a well that is of a temporary nature. These are numbered in the 80 series; i.e., 15S/22E-27K80M.

# ~~APPENDIX E~~

# ~~GROUND WATER QUALITY DATA~~

TABLE B-1

MINERAL ANALYSES OF GROUND WATER

| ATE IME | SAMPLER LAB | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | MILLIGRAMS PER LITER B | F / SIO2 | TDS SUM | TH NCH | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | |
| | 07S/10E-18R80 | M | | | | | | | | | | | | | | | | | |
| /06/74 | 5050 | | | | 67 | 18 | 188 | 2.8 | 0 | 446 | -- | 128 | -- | -- | -- | 740 | 243 | | |
| 1500 | 5050 | | 7.7 | 1320 | 3.34 | 1.48 | 8.18 | .07 | .00 | 7.31 | | 3.61 | | | -- | | 0 | 5.3 | |
| | | | | | 26 | 11 | 63 | 1 | | | | | | | | | | | |
| | 15S/22E-31A01 | M | | | | | | | | | | | | | | | | | |
| /11/74 | 5701 | 67 F | | | 31 | 4.0 | 22 | 2.9 | 1.2 | 137 | 9.0 | 16 | 8.0 | -- | .1 | 183 | 96 | | |
| | 5701 | 19 C | 8.1 | 291 | 1.55 | .33 | .96 | .07 | .04 | 2.25 | .19 | .45 | .13 | | 21.0 | 182 | 0 | 1.0 | |
| | | | | | 53 | 11 | 33 | 2 | 1 | 74 | 6 | 15 | 4 | | | | | | |
| | 15S/22E-32L01 | M | | | | | | | | | | | | | | | | | |
| /15/74 | 5701 | 69 F | | | 16 | .0 | 17 | 1.3 | .8 | 72 | 4.0 | 10 | 6.0 | -- | .1 | 107 | 42 | | |
| | 5701 | 21 C | 8.2 | 161 | .80 | .00 | .74 | .03 | .03 | 1.18 | .08 | .28 | .10 | | -- | 91 | 0 | 1.2 | S |
| | | | | | 51 | | 47 | 2 | 2 | 71 | 5 | 17 | 6 | | | | | | |
| /20/74 | 5701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .17 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | -- | | | | |
| | 16S/22E-05C01 | M | | | | | | | | | | | | | | | | | |
| /15/74 | 5701 | | | | 26 | 3.0 | 16 | 2.2 | .6 | 87 | 7.0 | 20 | 9.0 | -- | .2 | 150 | 77 | | |
| | 5701 | | 8.0 | 244 | 1.30 | .25 | .70 | .06 | .02 | 1.43 | .15 | .56 | .15 | | 24.0 | 151 | 5 | 0.8 | |
| | | | | | 56 | 11 | 30 | 3 | 1 | 62 | 6 | 24 | 6 | | | | | | |
| | 16S/22E-05C02 | M | | | | | | | | | | | | | | | | | |
| /06/74 | 5701 | 71 F | | | 20 | 2.0 | 16 | 2.0 | .3 | 75 | 5.0 | 18 | 9.0 | -- | .1 | 131 | 60 | | |
| | 5701 | 22 C | 7.7 | 205 | 1.00 | .16 | .70 | .05 | .01 | 1.23 | .10 | .51 | .15 | | 21.0 | 130 | 0 | 0.9 | |
| | | | | | 52 | 8 | 37 | 3 | 1 | 62 | 5 | 26 | 8 | | | | | | |
| | 16S/22E-05E01 | M | | | | | | | | | | | | | | | | | |
| /11/74 | 5701 | 67 F | | | 27 | 4.0 | 17 | 2.5 | 1.0 | 103 | 7.0 | 20 | 8.0 | -- | .1 | 164 | 84 | | |
| | 5701 | 19 C | 8.2 | 248 | 1.35 | .33 | .74 | .06 | .03 | 1.69 | .15 | .56 | .13 | | 26.0 | 163 | 0 | 0.8 | |
| | | | | | 54 | 13 | 30 | 2 | 1 | 66 | 6 | 22 | 5 | | | | | | |
| | 16S/22E-05E02 | M | | | | | | | | | | | | | | | | | |
| 5/15/74 | 5701 | 69 F | | | 10 | 1.0 | 18 | 1.3 | .7 | 62 | 4.0 | 8.0 | 4.0 | -- | .2 | 95 | 30 | | |
| | 5701 | 21 C | 8.2 | 147 | .50 | .08 | .78 | .03 | .02 | 1.02 | .08 | .23 | .06 | | 18.0 | 95 | 0 | 1.5 | |
| | | | | | 36 | 6 | 56 | 2 | 1 | 72 | 6 | 16 | 4 | | | | | | |
| | 16S/22E-05M01 | M | | | | | | | | | | | | | | | | | |
| 5/15/74 | 5701 | 69 F | | | 31 | 5.0 | 20 | 2.8 | .8 | 118 | 8.0 | 23 | 9.0 | -- | .1 | 184 | 100 | | |
| | 5701 | 21 C | 8.0 | 294 | 1.55 | .41 | .87 | .07 | .03 | 1.93 | .17 | .65 | .15 | | 25.0 | 183 | 0 | 0.9 | |
| | | | | | 53 | 14 | 30 | 2 | 1 | 66 | 6 | 22 | 5 | | | | | | |
| | 16S/22E-06G01 | M | | | | | | | | | | | | | | | | | |
| 8/06/74 | 5701 | 70 F | | | 33 | 3.0 | 24 | 2.4 | .6 | 116 | 12 | 21 | 20.0 | -- | -- | 194 | 94 | | |
| | 5701 | 21 C | 7.9 | 304 | 1.65 | .25 | 1.04 | .06 | .02 | 1.90 | .25 | .59 | .32 | | 20.0 | 193 | 0 | 1.1 | |
| | | | | | 55 | 8 | 35 | 2 | 1 | 62 | 8 | 19 | 10 | | | | | | |
| | 16S/22E-06K01 | M | | | | | | | | | | | | | | | | | |
| 4/11/74 | 5701 | 69 F | | | 18 | 1.0 | 20 | 1.9 | 1.7 | 79 | 7.0 | 14 | 9.0 | -- | .1 | 130 | 52 | | |
| | 5701 | 21 C | 8.5 | 201 | .90 | .08 | .87 | .05 | .06 | 1.29 | .15 | .39 | .15 | | 18.0 | 129 | 0 | 1.2 | S |
| | | | | | 47 | 4 | 46 | 3 | 3 | 63 | 7 | 19 | 7 | | | | | | |
| | 16S/22E-06Q01 | M | | | | | | | | | | | | | | | | | |
| 9/15/74 | 5701 | 72 F | | | 28 | 3.0 | 19 | 2.1 | .7 | 96 | 8.0 | 21 | 9.0 | -- | .1 | 160 | 81 | | |
| | 5701 | 22 C | 8.0 | 264 | 1.40 | .25 | .83 | .05 | .02 | 1.57 | .17 | .59 | .15 | | 22.0 | 160 | 3 | 0.9 | |
| | | | | | 55 | 10 | 33 | 2 | 1 | 63 | 7 | 24 | 6 | | | | | | |
| | 16S/22E-07A01 | M | | | | | | | | | | | | | | | | | |
| 9/15/74 | 5701 | 70 F | | | 44 | 7.0 | 21 | 2.9 | .9 | 137 | 12 | 36 | 15.0 | -- | .1 | 235 | 139 | | |
| | 5701 | 21 C | 8.0 | 394 | 2.20 | .58 | .91 | .07 | .03 | 2.25 | .25 | 1.02 | .24 | | 28.0 | 234 | 25 | 0.8 | |
| | | | | | 59 | 15 | 24 | 2 | 1 | 59 | 7 | 27 | 6 | | | | | | |
| | 16S/22E-07C02 | M | | | | | | | | | | | | | | | | | |
| 8/06/74 | 5701 | 71 F | | | 12 | .0 | 17 | 1.4 | 1.1 | 53 | 4.0 | 8.0 | 8.0 | -- | .1 | 97 | 30 | | |
| | 5701 | 22 C | 8.5 | 140 | .60 | .00 | .74 | .04 | .04 | .87 | .08 | .23 | .13 | | 20.0 | 98 | 0 | 1.4 | |
| | | | | | 43 | | 54 | 3 | 3 | 64 | 6 | 17 | 10 | | | | | | |
| | 18S/24E-27P02 | M | | | | | | | | | | | | | | | | | |
| 5/15/74 | 5701 | 65 F | | | 23 | 1.0 | 14 | .7 | .2 | 92 | 5.0 | 7.0 | 8.0 | -- | .2 | 119 | 62 | | |
| | 5701 | 18 C | 7.6 | 186 | 1.15 | .08 | .61 | .02 | .01 | 1.51 | .10 | .20 | .13 | | 15.0 | 119 | 0 | 0.8 | |
| | | | | | 62 | 4 | 33 | 1 | 1 | 77 | 5 | 10 | 7 | | | | | | |
| | 18S/24E-35C02 | M | | | | | | | | | | | | | | | | | |
| 2/27/74 | 5701 | 66 F | | | 60 | 7.0 | 14 | 1.2 | .7 | 201 | 9.0 | 14 | 22.0 | -- | .1 | 254 | 180 | | |
| | 5701 | 19 C | 7.7 | 410 | 2.99 | .58 | .61 | .03 | .02 | 3.29 | .19 | .39 | .35 | | 28.0 | 255 | 13 | 0.5 | |
| | | | | | 71 | 14 | 14 | 1 | | 78 | 4 | 9 | 8 | | | | | | |
| | 18S/24E-35C03 | M | | | | | | | | | | | | | | | | | |
| 2/27/74 | 5701 | 66 F | | | 61 | 9.0 | 12 | 1.1 | .5 | 202 | 10 | 14 | 25.0 | -- | .2 | 261 | 190 | | |
| | 5701 | 19 C | 7.6 | 422 | 3.04 | .74 | .52 | .03 | .02 | 3.31 | .21 | .39 | .40 | | 30.0 | 262 | 23 | 0.4 | |
| | | | | | 70 | 17 | 12 | 1 | | 76 | 5 | 9 | 9 | | | | | | |
| 3/01/74 | 5701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .06 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | -- | | | | |
| | 18S/24E-35N01 | M | | | | | | | | | | | | | | | | | |
| 6/12/74 | 5701 | 66 F | | | 23 | .0 | 15 | 1.3 | .5 | 94 | 5.0 | 8.0 | 5.0 | -- | .1 | 122 | 60 | | |
| | 5701 | 19 C | 7.9 | 188 | 1.15 | .00 | .65 | .03 | .02 | 1.54 | .10 | .23 | .08 | | 18.0 | 122 | 0 | 0.9 | S |
| | | | | | 63 | | 36 | 2 | 1 | 78 | 5 | 12 | 4 | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| DATE TIME | SAMPLER LAB | TEMP | FIELD LABORATORY PH | FIELD LABORATORY EC | CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCM | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | MINERAL CONSTITUENTS IN | | | | MILLIGRAMS PER LITER | | | | | MILLIGRAMS PER LITER | | | | | |
| | | | | | MILLIEQUIVALENTS PER LITER | | | | | | | | | | | | | | |
| | | | | | PERCENT REACTANCE VALUE | | | | | | | | | | | | | | |
| | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | |
| | 18S/24E-36C01 M | | | | | | | | | | | | | | | | | | |
| 06/12/74 | 5701 | 66 | F | | 16 | 3.0 | 16 | 1.3 | .5 | 87 | 5.0 | 8.0 | 3.0 | -- | .1 | 112 | 54 | | |
| | 5701 | 19 | C | 7.9 | 175 .80 | .25 | .70 | .03 | .02 | 1.43 | .10 | .23 | .05 | | 16.0 | 112 | 0 | 1.0 | |
| | | | | | 45 | 14 | 39 | 2 | 1 | 78 | 5 | 13 | 3 | | | | | | |
| | 18S/24E-36E01 M | | | | | | | | | | | | | | | | | | |
| 06/12/74 | 5701 | 66 | F | | 31 | 1.0 | 16 | 1.5 | .4 | 109 | 7.0 | 12 | 8.0 | -- | .1 | 149 | 82 | | |
| | 5701 | 19 | C | 7.7 | 234 1.55 | .08 | .70 | .04 | .01 | 1.79 | .15 | .34 | .13 | | 18.0 | 148 | 0 | 0.8 | |
| | | | | | 65 | 3 | 30 | 2 | | 74 | 6 | 14 | 5 | | | | | | |
| | 18S/24E-36K01 M | | | | | | | | | | | | | | | | | | |
| 09/24/74 | 5701 | 66 | F | | 28 | 2.0 | 14 | 1.4 | .6 | 106 | 6.0 | 8.0 | 6.0 | -- | -- | 136 | 79 | | |
| | 5701 | 19 | C | 7.9 | 221 1.40 | .16 | .61 | .04 | .02 | 1.74 | .12 | .23 | .10 | | 18.0 | 136 | 0 | 0.7 | |
| | | | | | 63 | 7 | 28 | 2 | 1 | 79 | 5 | 10 | 5 | | | | | | |
| | 18S/25E-14N01 M | | | | | | | | | | | | | | | | | | |
| 09/24/74 | 5701 | 65 | F | | 31 | 5.0 | 7.0 | 1.0 | .2 | 112 | 7.0 | 5.0 | 7.0 | -- | -- | 151 | 96 | | |
| | 5701 | 18 | C | 7.4 | 228 1.55 | .41 | .30 | .03 | .01 | 1.84 | .15 | .14 | .11 | | 32.0 | 150 | 6 | 0.3 | |
| | | | | | 68 | 18 | 13 | 1 | | 82 | 7 | 6 | 5 | | | | | | |
| | 18S/25E-19N01 M | | | | | | | | | | | | | | | | | | |
| 09/24/74 | 5701 | 66 | F | | 23 | 2.0 | 13 | 1.4 | .9 | 96 | 4.0 | 5.0 | 7.0 | -- | .1 | 121 | 65 | | |
| | 5701 | 19 | C | 8.2 | 190 1.15 | .16 | .57 | .04 | .03 | 1.57 | .08 | .14 | .11 | | 18.0 | 122 | 0 | 0.7 | |
| | | | | | 60 | 8 | 30 | 2 | 2 | 81 | 4 | 7 | 6 | | | | | | |
| | 18S/25E-19Q01 M | | | | | | | | | | | | | | | | | | |
| 02/27/74 | 5701 | 65 | F | | 23 | 1.0 | 10 | 1.2 | .6 | 95 | 3.0 | 6.0 | 1.0 | .00 | .1 | 112 | 65 | | |
| | 5701 | 18 | C | 8.0 | 181 1.15 | .08 | .44 | .03 | .02 | 1.56 | .06 | .17 | .02 | | 18.0 | 111 | 0 | 0.6 | |
| | | | | | 68 | 5 | 26 | 2 | 1 | 85 | 3 | 9 | 1 | | | | | | |
| | 18S/25E-20E01 M | | | | | | | | | | | | | | | | | | |
| 01/24/74 | 5701 | 64 | F | | 38 | 6.0 | 11 | .9 | .4 | 153 | 6.0 | 7.0 | 10.0 | -- | .1 | 179 | 122 | | |
| | 5701 | 18 | C | 7.6 | 283 1.90 | .49 | .48 | .02 | .01 | 2.51 | .12 | .20 | .16 | | 24.0 | 179 | 0 | 0.4 | |
| | | | | | 66 | 17 | 17 | 1 | | 84 | 4 | 7 | 5 | | | | | | |
| | 18S/25E-27N01 M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5701 | 64 | F | | 22 | 2.0 | 12 | 1.1 | .6 | 94 | 4.0 | 6.0 | 4.0 | -- | .1 | 118 | 64 | | |
| | 5701 | 18 | C | 8.0 | 179 1.10 | .16 | .52 | .03 | .02 | 1.54 | .08 | .17 | .06 | | 19.0 | 117 | 0 | 0.7 | |
| | | | | | 61 | 9 | 29 | 2 | 1 | 82 | 4 | 9 | 3 | | | | | | |
| 03/01/74 | 5701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .00 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | -- | | | | |
| | 18S/25E-27R01 M | | | | | | | | | | | | | | | | | | |
| 03/01/74 | 5701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .03 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | -- | | | | |
| 05/03/74 | 5701 | 64 | F | | 20 | 2.0 | 14 | 1.1 | .4 | 89 | 6.0 | 6.0 | 7.0 | -- | .1 | 122 | 60 | | |
| | 5701 | 18 | C | 7.8 | 176 1.00 | .16 | .61 | .03 | .01 | 1.46 | .12 | .17 | .11 | | 22.0 | 122 | 0 | 0.8 | |
| | | | | | 56 | 9 | 34 | 2 | 1 | 78 | 6 | 9 | 6 | | | | | | |
| | 18S/25E-28D01 M | | | | | | | | | | | | | | | | | | |
| 04/23/74 | 5701 | 63 | F | | 26 | 1.0 | 10 | 1.1 | .7 | 101 | 4.0 | 4.0 | 6.0 | -- | .1 | 121 | 72 | | |
| | 5701 | 17 | C | 8.0 | 182 1.30 | .08 | .44 | .03 | .02 | 1.66 | .08 | .11 | .10 | | 19.0 | 121 | 0 | 0.5 | |
| | | | | | 70 | 4 | 24 | 2 | 1 | 84 | 4 | 6 | 5 | | | | | | |
| | 18S/25E-28L01 M | | | | | | | | | | | | | | | | | | |
| 08/19/74 | 5701 | 66 | F | | 34 | 5.0 | 11 | 1.3 | .3 | 131 | 8.0 | 8.0 | 3.0 | -- | .1 | 161 | 106 | | |
| | 5701 | 19 | C | 7.5 | 255 1.70 | .41 | .48 | .03 | .01 | 2.15 | .17 | .23 | .05 | | 26.0 | 161 | 0 | 0.5 | |
| | | | | | 65 | 16 | 18 | 1 | | 82 | 7 | 9 | 2 | | | | | | |
| | 18S/25E-29B01 M | | | | | | | | | | | | | | | | | | |
| 08/19/74 | 5701 | 68 | F | | 22 | 2.0 | 12 | 1.3 | .3 | 97 | 4.0 | 5.0 | .0 | -- | .1 | 114 | 66 | | |
| | 5701 | 20 | C | 7.6 | 177 1.10 | .16 | .52 | .03 | .01 | 1.59 | .08 | .14 | .00 | | 18.0 | 112 | 0 | 0.7 | |
| | | | | | 61 | 9 | 29 | 2 | 1 | 87 | 4 | 8 | | | | | | | |
| | 18S/25E-29C01 M | | | | | | | | | | | | | | | | | | |
| 04/23/74 | 5701 | 64 | F | | 26 | 2.0 | 9.0 | .9 | .7 | 96 | 6.0 | 6.0 | 3.0 | -- | -- | 124 | 74 | | |
| | 5701 | 18 | C | 8.0 | 184 1.30 | .16 | .39 | .02 | .02 | 1.57 | .12 | .17 | .05 | | 23.0 | 124 | 0 | 0.5 | |
| | | | | | 70 | 9 | 21 | 1 | 1 | 81 | 6 | 9 | 3 | | | | | | |
| | 18S/25E-29R01 M | | | | | | | | | | | | | | | | | | |
| 04/23/74 | 5701 | 64 | F | | 34 | 1.0 | 11 | 1.2 | .7 | 120 | 5.0 | 7.0 | 6.0 | -- | .1 | 148 | 90 | | |
| | 5701 | 18 | C | 8.0 | 229 1.70 | .08 | .48 | .03 | .02 | 1.97 | .10 | .20 | .10 | | 22.0 | 147 | 0 | 0.5 | |
| | | | | | 74 | 3 | 21 | 1 | .1 | 82 | 4 | 8 | 4 | | | | | | |
| | 18S/25E-30F01 M | | | | | | | | | | | | | | | | | | |
| 06/12/74 | 5701 | 65 | F | | 21 | 2.0 | 13 | 1.2 | .4 | 94 | 4.0 | 5.0 | 4.0 | -- | .1 | 116 | 62 | | |
| | 5701 | 18 | C | 7.8 | 175 1.05 | .16 | .57 | .03 | .01 | 1.54 | .08 | .14 | .06 | | 18.0 | 115 | 0 | 0.7 | |
| | | | | | 58 | 9 | 31 | 2 | 1 | 84 | 4 | 8 | 3 | | | | | | |
| | 18S/25E-30H01 M | | | | | | | | | | | | | | | | | | |
| 09/24/74 | 5701 | 66 | F | | 44 | 6.0 | 14 | 1.3 | .8 | 157 | 11 | 10 | 11.0 | -- | -- | 200 | 133 | | |
| | 5701 | 19 | C | 7.9 | 323 2.20 | .49 | .61 | .03 | .03 | 2.57 | .23 | .28 | .18 | | 25.0 | 200 | 5 | 0.5 | |
| | | | | | 66 | 15 | 18 | 1 | 1 | .78 | 7 | 9 | 5 | | | | | | |
| | 18S/25E-30H2 | | | | | | | | | | | | | | | | | | |
| 09/24/74 | 5701 | 66 | F | | 44 | 6.0 | 14 | 1.3 | .5 | 160 | 8.0 | 10 | 12.0 | -- | | 201 | 135 | | |
| | 5701 | 19 | C | 7.7 | 328 2.20 | .49 | .61 | .03 | .02 | 2.62 | .17 | .28 | .19 | | 26.0 | 200 | 3 | 0.5 | |
| | | | | | 66 | 15 | 18 | 1 | 1 | 80 | 5 | 9 | 6 | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| ATE IME | SAMPLER LAB | | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCH | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | |
| | 18S/25E-30N01 | M | | | | | | | | | | | | | | | | | | |
| /19/74 | 5701 | | | | | 24 | 1.0 | 14 | 1.5 | .6 | 94 | 5.0 | 9.0 | 2.0 | -- | .1 | 121 | 66 | | |
| | 5701 | | | 8.0 | 190 | 1.20 | .08 | .61 | .04 | .02 | 1.54 | .10 | .25 | .03 | | 17.0 | 120 | 0 | 0.8 | |
| | | | | | | 62 | 4 | 32 | 2 | 1 | 79 | 5 | 13 | 2 | | | | | | |
| | 18S/25E-30R02 | M | | | | | | | | | | | | | | | | | | |
| /15/74 | 5701 | | 66 F | | | 36 | 2.0 | 15 | 1.2 | .5 | 123 | 11 | 10 | 9.0 | -- | .1 | 163 | 100 | | |
| | 5701 | | 19 C | 7.8 | 270 | 1.80 | .16 | .65 | .03 | .02 | 2.02 | .23 | .28 | .15 | | 18.0 | 163 | 0 | 0.7 | |
| | | | | | | 68 | 6 | 25 | 1 | 1 | 75 | 9 | 10 | 6 | | | | | | |
| /12/74 | 5701 | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .00 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | | -- | | | | |
| | 18S/25E-31B01 | M | | | | | | | | | | | | | | | | | | |
| /23/74 | 5701 | | 65 F | | | 31 | 1.0 | 13 | 1.2 | .6 | 109 | 6.0 | 9.0 | 6.0 | -- | .1 | 142 | 82 | | |
| | 5701 | | 18 C | 7.9 | 217 | 1.55 | .08 | .57 | .03 | .02 | 1.79 | .12 | .25 | .10 | | 21.0 | 142 | 0 | 0.6 | |
| | | | | | | 70 | 4 | 26 | 1 | 1 | 79 | 5 | 11 | 4 | | | | | | |
| | 18S/25E-31B03 | M | | | | | | | | | | | | | | | | | | |
| /24/74 | 5701 | | | | | 28 | 1.0 | 13 | 1.4 | .5 | 97 | 7.0 | 8.0 | 6.0 | -- | -- | 131 | 75 | | |
| | 5701 | | | 7.9 | 214 | 1.40 | .08 | .57 | .04 | .02 | 1.59 | .15 | .23 | .10 | | 19.0 | 132 | 0 | 0.7 | |
| | | | | | | 67 | 4 | 27 | 2 | 1 | 76 | 7 | 11 | 5 | | | | | | |
| | 18S/25E-31E01 | M | | | | | | | | | | | | | | | | | | |
| 8/19/74 | 5701 | | 68 F | | | 31 | 2.0 | 13 | 1.5 | .6 | 109 | 6.0 | 10 | 5.0 | -- | .1 | 140 | 86 | | |
| | 5701 | | 20 C | 7.9 | 226 | 1.55 | .16 | .57 | .04 | .02 | 1.79 | .12 | .28 | .08 | | 18.0 | 141 | 0 | 0.6 | |
| | | | | | | 67 | 7 | 25 | 2 | 1 | 78 | 5 | 12 | 3 | | | | | | |
| | 18S/25E-31K01 | M | | | | | | | | | | | | | | | | | | |
| 2/27/74 | 5701 | | 63 F | | | 33 | 2.0 | 14 | 1.4 | .5 | 115 | 7.0 | 12 | 6.0 | -- | .1 | 151 | 91 | | |
| | 5701 | | 17 C | 7.8 | 241 | 1.65 | .16 | .61 | .04 | .02 | 1.88 | .15 | .34 | .10 | | 19.0 | 151 | 0 | 0.6 | |
| | | | | | | 67 | 7 | 25 | 2 | 1 | 76 | 6 | 14 | 4 | | | | | | |
| | 18S/25E-31R01 | M | | | | | | | | | | | | | | | | | | |
| 5/15/74 | 5701 | | 65 F | | | 28 | 2.0 | 14 | 1.2 | .5 | 111 | 6.0 | 7.0 | 7.0 | -- | .1 | 138 | 80 | | |
| | 5701 | | 18 C | 7.8 | 218 | 1.40 | .16 | .61 | .03 | .02 | 1.82 | .12 | .20 | .11 | | 17.0 | 137 | 0 | 0.7 | |
| | | | | | | 64 | 7 | 28 | 1 | 1 | 80 | 5 | 9 | 5 | | | | | | |
| | 18S/25E-32E01 | M | | | | | | | | | | | | | | | | | | |
| 4/23/74 | 5701 | | 65 F | | | 27 | 1.0 | 12 | 1.2 | .6 | 104 | 4.0 | 6.0 | 5.0 | -- | .1 | 126 | 72 | | |
| | 5701 | | 18 C | 7.9 | 193 | 1.35 | .08 | .52 | .03 | .02 | 1.70 | .08 | .17 | .08 | | 18.0 | 126 | 0 | 0.6 | |
| | | | | | | 68 | 4 | 26 | 2 | 1 | 83 | 4 | 8 | 4 | | | | | | |
| | 18S/25E-32E02 | M | | | | | | | | | | | | | | | | | | |
| 3/01/74 | 5701 | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .03 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | | -- | | | | |
| 4/23/74 | 5701 | | 64 F | | | 26 | 2.0 | 11 | 1.3 | .7 | 106 | 4.0 | 5.0 | 3.0 | -- | .1 | 127 | 74 | | |
| | 5701 | | 18 C | 8.0 | 194 | 1.30 | .16 | .48 | .03 | .02 | 1.74 | .08 | .14 | .05 | | 21.0 | 126 | 0 | 0.6 | |
| | | | | | | 66 | 8 | 24 | 2 | 1 | 86 | 4 | 7 | 2 | | | | | | |
| | 18S/25E-32G01 | M | | | | | | | | | | | | | | | | | | |
| 5/15/74 | 5701 | | 66 F | | | 41 | 1.0 | 10 | .8 | .6 | 121 | 10 | 7.0 | 14.0 | -- | .1 | 172 | 108 | | |
| | 5701 | | 19 C | 7.9 | 265 | 2.05 | .08 | .44 | .02 | .02 | 1.98 | .21 | .20 | .23 | | 27.0 | 171 | 7 | 0.4 | |
| | | | | | | 79 | 3 | 17 | 1 | 1 | 75 | 8 | 8 | 9 | | | | | | |
| | 18S/25E-32K01 | M | | | | | | | | | | | | | | | | | | |
| 4/23/74 | 5701 | | 65 F | | | 33 | 1.0 | 13 | 1.0 | .3 | 116 | 6.0 | 7.0 | 10.0 | -- | .1 | 128 | 88 | | |
| | 5701 | | 18 C | 7.6 | 233 | 1.65 | .08 | .57 | .03 | .01 | 1.90 | .12 | .20 | .16 | | .0 | 128 | 0 | 0.6 | |
| | | | | | | 71 | 3 | 24 | 1 | | 79 | 5 | 8 | 7 | | | | | | |
| | 19S/24E-01G01 | M | | | | | | | | | | | | | | | | | | |
| 8/19/74 | 5701 | | 66 F | | | 50 | 4.0 | 15 | 1.2 | .5 | 151 | 12 | 20 | 9.0 | -- | .1 | 211 | 140 | | |
| | 5701 | | 19 C | 7.7 | 346 | 2.50 | .33 | .65 | .03 | .02 | 2.47 | .25 | .56 | .15 | | 26.0 | 212 | 17 | 0.5 | |
| | | | | | | 71 | 9 | 19 | 1 | 1 | 72 | 7 | 16 | 4 | | | | | | |
| | 19S/24E-01R01 | M | | | | | | | | | | | | | | | | | | |
| 5/20/74 | 5701 | | 62 F | | | 64 | 1.0 | 14 | 1.4 | .3 | 121 | 7.0 | 62 | 9.0 | -- | .1 | 241 | 166 | | |
| | 5701 | | 17 C | 7.6 | 434 | 3.19 | .08 | .61 | .04 | .01 | 1.98 | .15 | 1.75 | .15 | | 21.0 | 239 | 64 | 0.5 | |
| | | | | | | 81 | 2 | 16 | 1 | | 49 | 4 | 43 | 4 | | | | | | |
| | 19S/24E-02H01 | M | | | | | | | | | | | | | | | | | | |
| 1/15/73 | 5701 | | 65 F | | | 40 | 3.0 | 15 | 1.0 | .3 | 134 | 9.0 | 14 | 12.0 | -- | .1 | 182 | 114 | | |
| | 5701 | | 18 C | 7.5 | 290 | 2.00 | .25 | .65 | .03 | .01 | 2.20 | .19 | .39 | .19 | | 21.0 | 181 | 2 | 0.6 | |
| | | | | | | 68 | 9 | 22 | 1 | | 74 | 6 | 13 | 6 | | | | | | |
| 4/23/74 | 5701 | | 65 F | | | 42 | 1.0 | 15 | 1.0 | .5 | 136 | 7.0 | 13 | 16.0 | -- | .1 | 186 | 112 | | |
| | 5701 | | 18 C | 7.8 | 293 | 2.10 | .08 | .65 | .03 | .02 | 2.23 | .15 | .37 | .26 | | 23.0 | 185 | 0 | 0.6 | |
| | | | | | | 73 | 3 | 23 | 1 | 1 | 74 | 5 | 12 | 9 | | | | | | |
| | 19S/24E-02H02 | M | | | | | | | | | | | | | | | | | | |
| 2/27/74 | 5701 | | 66 F | | | 41 | 2.0 | 15 | 1.1 | .7 | 136 | 8.0 | 12 | 14.0 | -- | .1 | 181 | 111 | | |
| | 5701 | | 19 C | 7.9 | 283 | 2.05 | .16 | .65 | .03 | .02 | 2.23 | .17 | .34 | .23 | | 20.0 | 181 | 0 | 0.6 | |
| | | | | | | 71 | 6 | 22 | 1 | 1 | 75 | 6 | 11 | 8 | | | | | | |
| | 19S/24E-02K01 | M | | | | | | | | | | | | | | | | | | |
| 9/24/74 | 5701 | | 67 F | | | 13 | .0 | 19 | .9 | .5 | 70 | 5.0 | 7.0 | 2.0 | -- | .1 | 96 | 33 | | |
| | 5701 | | 19 C | 8.0 | 150 | .65 | .00 | .83 | .02 | .02 | 1.15 | .10 | .20 | .03 | | 15.0 | 97 | 0 | 1.5 | |
| | | | | | | 43 | | 55 | 1 | 1 | 77 | 7 | 13 | 2 | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| DATE TIME | SAMPLER LAB | TEMP | FIELD LABORATORY PH | FIELD LABORATORY EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | MILLIGRAMS PER LITER: B | F | SIO2 | TDS SUM | TH NCM | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | |
| | 19S/25E-06E01 | M | | | | | | | | | | | | | | | | | | |
| 01/24/74 | 5701 | 66 F | | | 21 | .0 | 16 | 1.1 | .7 | 86 | 5.0 | 9.0 | 4.0 | -- | .1 | | 117 | 54 | | |
| | 5701 | 19 C | 8.1 | 172 | 1.05 | .00 | .70 | .03 | .02 | 1.41 | .10 | .25 | .06 | | 17.0 | | 116 | 0 | 1.0 | |
| | | | | | 59 | | 39 | 2 | 1 | 77 | 5 | 14 | 3 | | | | | | | |
| | 19S/25E-06M01 | M | | | | | | | | | | | | | | | | | | |
| 04/23/74 | 5701 | 64 F | | | 40 | 1.0 | 14 | 1.4 | .5 | 96 | 5.0 | 35 | 7.0 | -- | .1 | | 172 | 106 | | |
| | 5701 | 18 C | 7.9 | 291 | 2.00 | .08 | .61 | .04 | .02 | 1.57 | .10 | .99 | .11 | | 20.0 | | 171 | 25 | 0.6 | |
| | | | | | 73 | 3 | 22 | 1 | 1 | 56 | 4 | 35 | 4 | | | | | | | |
| | 19S/25E-07A01 | M | | | | | | | | | | | | | | | | | | |
| 01/24/74 | 5701 | 65 F | | | 35 | 2.0 | 16 | 1.1 | .4 | 119 | 10 | 15 | 8.0 | -- | .1 | | 166 | 98 | | |
| | 5701 | 18 C | 7.7 | 266 | 1.75 | .16 | .70 | .03 | .01 | 1.95 | .21 | .42 | .13 | | 20.0 | | 166 | 0 | 0.7 | |
| | | | | | 66 | 6 | 27 | 1 | | 72 | 8 | 15 | 5 | | | | | | | |
| 08/19/74 | 5701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .01 | -- | | | | | |
| | 5701 | | | | | | | | | | | | | | -- | | | | | |
| | 19S/26E-22D01 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 54.5F | 7.3 | 650 | 84 | 30 | 45 | -- | 0 | 371 | -- | 54 | 16.0 | -- | -- | | | 335 | | X |
| 1330 | 5050 | 12.5C | 7.8 | 852 | 4.19 | 2.47 | 1.96 | | .00 | 6.08 | | 1.52 | .26 | | -- | | | 29 | 1.1 | |
| | | | | | 49 | 29 | 23 | | | 77 | | 19 | 3 | | | | | | | |
| | 19S/26E-22P01 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 68.0F | 7.3 | 520 | 46 | 17 | 38 | -- | 0 | 212 | -- | 47 | 12.0 | -- | -- | | | 185 | | |
| 1345 | 5050 | 20.0C | 7.9 | 559 | 2.30 | 1.40 | 1.65 | | .00 | 3.47 | | 1.33 | .19 | | -- | | | 12 | 1.2 | |
| | | | | | 43 | 26 | 31 | | | 70 | | 27 | 4 | | | | | | | |
| | 19S/26E-26J01 | M | | | | | | | | | | | | | | | | | | |
| 02/01/74 | 5050 | 52.7F | 7.6 | 900 | 41 | 50 | 161 | -- | 0 | 466 | -- | 133 | 16.0 | -- | -- | | | 308 | | |
| 1045 | 5050 | 11.5C | 8.1 | 1220 | 2.05 | 4.11 | 7.00 | | .00 | 7.64 | | 3.75 | .26 | | -- | | | 0 | 4.0 | |
| | | | | | 16 | 31 | 53 | | | 66 | | 32 | 2 | | | | | | | |
| | 19S/26E-26M01 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 48.2F | 8.2 | 570 | 31 | 29 | 91 | -- | 1.0 | 225 | -- | 77 | 3.8 | -- | -- | | | 197 | | |
| 1015 | 5050 | 9.0C | 8.3 | 801 | 1.55 | 2.38 | 3.96 | | .03 | 3.69 | | 2.17 | .06 | | -- | | | 11 | 2.8 | |
| | | | | | 20 | 30 | 50 | | | | | | | | | | | | | |
| | 19S/26E-28J01 | M | | | | | | | | | | | | | | | | | | |
| 02/01/74 | 5050 | 52.7F | 7.3 | 590 | 73 | 27 | 48 | -- | 0 | 308 | -- | 62 | 16.0 | -- | -- | | | 292 | | |
| 1245 | 5050 | 11.5C | 7.8 | 791 | 3.64 | 2.22 | 2.09 | | .00 | 5.05 | | 1.75 | .26 | | -- | | | 41 | 1.2 | |
| | | | | | 46 | 28 | 26 | | | 72 | | 25 | 4 | | | | | | | |
| | 19S/26E-32M01 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 68.9F | 8.1 | 400 | 32 | 10 | 34 | -- | 0 | 156 | -- | 25 | 20.0 | -- | -- | | | 123 | | |
| 1430 | 5050 | 20.5C | 8.2 | 417 | 1.60 | .82 | 1.48 | | .00 | 2.56 | | .71 | .32 | | -- | | | 0 | 1.3 | |
| | | | | | 41 | 21 | 38 | | | 71 | | 20 | 9 | | | | | | | |
| | 19S/26E-34L01 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 68.0F | 7.9 | 950 | 36 | 33 | 106 | -- | 0 | 177 | -- | 194 | 2.6 | -- | -- | | | 227 | | |
| 0930 | 5050 | 20.0C | 8.0 | 979 | 1.80 | 2.71 | 4.61 | | .00 | 2.90 | | 5.47 | .04 | | -- | | | 81 | 3.1 | |
| | | | | | 20 | 30 | 51 | | | 34 | | 65 | | | | | | | | |
| | 19S/26E-34R01 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 51.8F | 8.0 | 900 | 63 | 44 | 116 | -- | 0 | 220 | -- | 228 | 32.0 | -- | -- | | | 339 | | |
| 1045 | 5050 | 11.0C | 8.2 | 1220 | 3.14 | 3.62 | 5.05 | | .00 | 3.61 | | 6.43 | .52 | | -- | | | 158 | 2.7 | |
| | | | | | 27 | 31 | 43 | | | 34 | | 61 | 5 | | | | | | | |
| | 19S/26E-36F02 | M | | | | | | | | | | | | | | | | | | |
| 02/01/74 | 5050 | 45.5F | 8.2 | 550 | 50 | 30 | 80 | -- | 0 | 283 | -- | 54 | 44.0 | -- | -- | | | 249 | | |
| 1030 | 5050 | 7.5C | 8.3 | 822 | 2.50 | 2.47 | 3.48 | | .00 | 4.64 | | 1.52 | .71 | | -- | | | 17 | 2.2 | |
| | | | | | 30 | 29 | 41 | | | 68 | | 22 | 10 | | | | | | | |
| | 20S/26E-01P01 | M | | | | | | | | | | | | | | | | | | |
| 02/01/74 | 5050 | 53.6F | 7.9 | 520 | 48 | 26 | 42 | -- | 0 | 182 | -- | 72 | 38.0 | -- | -- | | | 226 | | |
| 1000 | 5050 | 12.0C | 8.1 | 688 | 2.40 | 2.14 | 1.83 | | .00 | 2.98 | | 2.03 | .61 | | -- | | | 78 | 1.2 | |
| | | | | | 38 | 34 | 29 | | | 53 | | 36 | 11 | | | | | | | |
| | 20S/26E-02F03 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 52.7F | 7.3 | 1430 | 156 | 95 | 77 | -- | 0 | 298 | -- | 418 | 50.0 | -- | -- | | | 780 | | |
| 1000 | 5050 | 11.5C | 7.9 | 1970 | 7.78 | 7.81 | 3.35 | | .00 | 4.88 | | 11.79 | .81 | | -- | | | 536 | 1.2 | |
| | | | | | 41 | 41 | 18 | | | 28 | | 67 | 5 | | | | | | | |
| | 20S/26E-03D01 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 63.5F | 7.2 | 1900 | 71 | 53 | 365 | -- | 0 | 628 | -- | 394 | .0 | -- | -- | | | 394 | | |
| 0915 | 5050 | 17.5C | 7.7 | 2300 | 3.54 | 4.36 | 15.88 | | .00 | 10.29 | | 11.11 | .00 | | -- | | | 0 | 8.0 | |
| | | | | | 15 | 18 | 67 | | | 48 | | 52 | | | | | | | | |
| | 20S/26E-03D02 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 62.6F | 7.3 | 1680 | 93 | 71 | 203 | -- | 0 | 274 | -- | 465 | 18.0 | -- | -- | | | 526 | | |
| 0900 | 5050 | 17.0C | 7.8 | 2040 | 4.64 | 5.84 | 8.83 | | .00 | 4.49 | | 13.11 | .29 | | -- | | | 300 | 3.9 | |
| | | | | | 24 | 30 | 46 | | | 25 | | 73 | 2 | | | | | | | |
| | 20S/26E-05R01 | M | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | 50.9F | 7.7 | 710 | 68 | 34 | 70 | -- | 0 | 263 | -- | 128 | 13.0 | -- | -- | | | 309 | | |
| 1400 | 5050 | 10.5C | 8.0 | 962 | 3.39 | 2.80 | 3.05 | | .00 | 4.31 | | 3.61 | .21 | | -- | | | 94 | 1.7 | |
| | | | | | 37 | 30 | 33 | | | 53 | | 44 | 3 | | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| DATE TIME | SAMPLER LAB | | TEMP | FIELD LABORATORY PH | FIELD LABORATORY EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F | SIO2 | TDS SUM | TH NCM | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | | |
| | | 20S/26E-07C01 M | | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | | 45.5F | 8.1 | 430 | 35 | 21 | 62 | -- | 1.0 | 185 | -- | 64 | 14.0 | -- | -- | | | 173 | | X |
| 0830 | 5050 | | 7.5C | 8.3 | 640 | 1.75 | 1.73 | 2.70 | | .03 | 3.03 | | 1.80 | .23 | | -- | | | 21 | 2.0 | |
| | | | | | | 28 | 28 | 44 | | | | | | | | | | | | | |
| | | 20S/26E-09P01 M | | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | | 50.0F | 7.8 | 800 | 105 | 41 | 45 | -- | 0 | 209 | -- | 159 | 54.0 | -- | -- | | | 433 | | X |
| 1200 | 5050 | | 10.0C | 7.9 | 1120 | 5.24 | 3.37 | 1.96 | | .00 | 3.43 | | 4.48 | .87 | | -- | | | 259 | 0.9 | |
| | | | | | | 50 | 32 | 19 | | | 39 | | 51 | 10 | | | | | | | |
| | | 20S/26E-11H01 M | | | | | | | | | | | | | | | | | | | |
| 02/01/74 | 5050 | | 57.2F | 7.9 | 560 | 53 | 25 | 42 | -- | 0 | 157 | -- | 93 | 36.0 | -- | -- | | | 236 | | X |
| 0930 | 5050 | | 14.0C | 8.1 | 714 | 2.64 | 2.06 | 1.83 | | .00 | 2.57 | | 2.62 | .58 | | -- | | | 107 | 1.2 | |
| | | | | | | 40 | 32 | 28 | | | 45 | | 45 | 10 | | | | | | | |
| | | 20S/26E-21P01 M | | | | | | | | | | | | | | | | | | | |
| 01/31/74 | 5050 | | 55.4F | 8.0 | 300 | 19 | 7.9 | 42 | -- | 0 | 191 | -- | 17 | 14.0 | -- | -- | | | 80 | | |
| 1230 | 5050 | | 13.0C | 8.3 | 370 | .95 | .65 | 1.83 | | .00 | 3.13 | | .48 | .23 | | -- | | | 0 | 2.0 | |
| | | | | | | 28 | 19 | 53 | | | 82 | | 13 | 6 | | | | | | | |
| | | 20S/26E-23R01 M | | | | | | | | | | | | | | | | | | | |
| 02/01/74 | 5050 | | 56.3F | 8.0 | 440 | 37 | 15 | 48 | -- | 0 | 162 | -- | 21 | 40.0 | -- | -- | | | 156 | | |
| 1200 | 5050 | | 13.5C | 8.1 | 545 | 1.85 | 1.23 | 2.09 | | .00 | 2.66 | | .59 | .65 | | -- | | | 21 | 1.7 | |
| | | | | | | 36 | 24 | 40 | | | 68 | | 15 | 17 | | | | | | | |
| | | 20S/27E-06P01 M | | | | | | | | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 70.3F | 7.6 | 1000 | 68 | 36 | 75 | 3.7 | 0 | 142 | 24 | 208 | 46.0 | .10 | -- | 626 | 316 | | | |
| 0935 | 5050 | | 21.3C | 7.2 | 1060 | 3.39 | 2.96 | 3.26 | .09 | .00 | 2.33 | .50 | 5.87 | .74 | | -- | 531 | 201 | 1.8 | | |
| | | | | | | 35 | 31 | 34 | 1 | | 25 | 5 | 62 | 8 | | | | | | | |
| | | 20S/27E-07F01 M | | | | | | | | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 71.2F | 7.4 | 1160 | 78 | 42 | 82 | 4.2 | 0 | 171 | 31 | 245 | 35.0 | .10 | -- | 739 | 371 | | | |
| 0950 | 5050 | | 21.8C | 7.4 | 1210 | 3.89 | 3.45 | 3.57 | .11 | .00 | 2.80 | .65 | 6.91 | .56 | | -- | 601 | 227 | 1.9 | | |
| | | | | | | 35 | 31 | 32 | 1 | | 26 | 6 | 63 | 5 | | | | | | | |
| | | 20S/27E-07F02 M | | | | | | | | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 70.7F | 7.6 | 700 | 47 | 24 | 51 | 3.3 | 0 | 170 | 24 | 104 | 11.0 | .10 | -- | 422 | 214 | | | |
| 1000 | 5050 | | 21.5C | 7.6 | 730 | 2.35 | 1.97 | 2.22 | .08 | .00 | 2.79 | .50 | 2.93 | .18 | | -- | 348 | 77 | 1.5 | | |
| | | | | | | 35 | 30 | 34 | 1 | | 44 | 8 | 46 | 3 | | | | | | | |
| | | 20S/27E-07H01 M | | | | | | | | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 69.8F | 7.4 | 780 | 55 | 30 | 67 | 3.2 | 0 | 223 | 50 | 85 | 61.0 | .10 | -- | 509 | 261 | | | |
| 0910 | 5050 | | 21.0C | 7.6 | 835 | 2.74 | 2.47 | 2.91 | .08 | .00 | 3.65 | 1.04 | 2.40 | .98 | | -- | 461 | 78 | 1.8 | | |
| | | | | | | 33 | 30 | 35 | 1 | | 45 | 13 | 30 | 12 | | | | | | | |
| | | 20S/27E-07K02 M | | | | | | | | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 70.7F | 7.6 | 1150 | 83 | 44 | 82 | 4.1 | 0 | 188 | 44 | 234 | 46.0 | .10 | -- | 758 | 389 | | | |
| 0900 | 5050 | | 21.5C | 7.6 | 1240 | 4.14 | 3.62 | 3.57 | .10 | .00 | 3.08 | .92 | 6.60 | .74 | | -- | 630 | 234 | 1.8 | | |
| | | | | | | 36 | 32 | 31 | 1 | | 27 | 8 | 58 | 7 | | | | | | | |
| | | 20S/27E-07M02 M | | | | | | | | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 70.7F | 7.6 | 910 | 77 | 38 | 58 | 4.0 | 0 | 197 | 43 | 160 | 47.0 | .10 | -- | 599 | 350 | | | |
| 0855 | 5050 | | 21.5C | 7.6 | 1010 | 3.84 | 3.13 | 2.52 | .10 | .00 | 3.23 | .90 | 4.51 | .76 | | -- | 524 | 187 | 1.4 | | |
| | | | | | | 40 | 33 | 26 | 1 | | 34 | 10 | 48 | 8 | | | | | | | |
| | | 20S/27E-08E02 M | | | | | | | | | | | | | | | | | | | |
| 04/10/74 | 5050 | | 68.9F | 7.5 | 770 | 55 | 32 | 72 | 3.3 | 0 | 248 | 57 | 77 | 67.0 | .10 | -- | 523 | 269 | | | |
| 0920 | 5050 | | 20.5C | 7.7 | 862 | 2.74 | 2.63 | 3.13 | .08 | .00 | 4.06 | 1.19 | 2.17 | 1.08 | | -- | 485 | 66 | 1.9 | | |
| | | | | | | 32 | 31 | 36 | 1 | | 48 | 14 | 26 | 13 | | | | | | | |
| | | 20S/27E-19G01 M | | | | | | | | | | | | | | | | | | | |
| 02/01/74 | 5050 | | 50.9F | 7.7 | 780 | 101 | 38 | 57 | -- | 0 | 298 | -- | 100 | 80.0 | -- | -- | | | 409 | | X |
| 0900 | 5050 | | 10.5C | 8.0 | 1090 | 5.04 | 3.13 | 2.48 | | .00 | 4.88 | | 2.82 | 1.29 | | -- | | | 165 | 1.2 | |
| | | | | | | 47 | 29 | 23 | | | 54 | | 31 | 14 | | | | | | | |
| | | 21S/15E-04Q01 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | | 7.9 | | 132 | 86 | 578 | 8.0 | 0 | 166 | 1440 | 231 | 4.0 | 2.70 | -- | 2620 | 682 | | | E |
| 1305 | 5050 | | | 7.4 | 3600 | 6.59 | 7.07 | 25.14 | .20 | .00 | 2.72 | 29.98 | 6.51 | .06 | | -- | 2563 | 547 | 9.6 | | |
| | | | | | | 17 | 18 | 64 | 1 | | 7 | 76 | 17 | | | | | | | | |
| | | 21S/15E-10K01 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | | 7.7 | | 119 | 99 | 386 | 4.5 | 0 | 274 | 1100 | 120 | .9 | 1.30 | -- | 2050 | 704 | | | E |
| 1245 | 5050 | | | 7.7 | 2710 | 5.94 | 8.14 | 16.79 | .12 | .00 | 4.49 | 22.90 | 3.38 | .01 | | -- | 1965 | 480 | 6.3 | | |
| | | | | | | 19 | 26 | 54 | | | 15 | 74 | 11 | | | | | | | | |
| | | 21S/15E-11B01 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | | 7.7 | | 229 | 160 | 456 | 5.5 | 0 | 188 | 1640 | 255 | 15.0 | 2.90 | -- | 3030 | 1230 | | | E |
| 1130 | 5050 | | | 7.5 | 3740 | 11.43 | 13.16 | 19.84 | .14 | .00 | 3.08 | 34.14 | 7.19 | .24 | | -- | 2856 | 1076 | 5.7 | | |
| | | | | | | 26 | 30 | 45 | | | 7 | 76 | 16 | 1 | | | | | | | |
| | | 21S/15E-12Q01 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | | 7.7 | | 100 | 65 | 200 | 5.3 | 0 | 244 | 622 | 67 | 14.0 | .80 | -- | 1180 | 517 | | | |
| 1025 | 5050 | | | 7.6 | 1720 | 4.99 | 5.35 | 8.70 | .14 | .00 | 4.00 | 12.95 | 1.89 | .23 | | -- | 1194 | 317 | 3.8 | | |
| | | | | | | 26 | 28 | 45 | 1 | | 21 | 68 | 10 | 1 | | | | | | | |
| | | 21S/16E-04N03 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | | 7.9 | | 143 | 100 | 284 | 4.8 | 0 | 168 | 1040 | 120 | 7.3 | 1.70 | -- | 1910 | 770 | | | E |
| 0910 | 5050 | | | 7.6 | 2450 | 7.14 | 8.22 | 12.35 | .12 | .00 | 2.75 | 21.65 | 3.38 | .12 | | -- | 1783 | 631 | 4.5 | | |
| | | | | | | 26 | 30 | 44 | | | 10 | 78 | 12 | | | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| DATE TIME | SAMPLER LAB | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCM | SAR | RE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | |
| | 21S/16E-05P01 | M | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | 7.8 | | 132 | 91 | 300 | 4.5 | 0 | 182 | 1000 | 127 | 7.3 | 2.00 | -- | 1860 | 715 | | |
| 0930 | 5050 | | 7.5 | 2470 | 6.59 | 7.48 | 13.05 | .12 | .00 | 2.98 | 20.82 | 3.58 | .12 | | -- | 1753 | 555 | 4.9 | |
| | | | | | 24 | 27 | 48 | | | 11 | 76 | 13 | | | | | | | |
| | 21S/16E-06M01 | M | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | 7.7 | | 161 | 113 | 355 | 4.5 | 0 | 196 | 1190 | 183 | 15.0 | 2.40 | -- | 2210 | 869 | | |
| 0950 | 5050 | | 7.6 | 2910 | 8.03 | 9.29 | 15.44 | .12 | .00 | 3.21 | 24.78 | 5.16 | .24 | | -- | 2120 | 706 | 5.2 | |
| | | | | | 24 | 28 | 47 | | | 10 | 74 | 15 | 1 | | | | | | |
| | 21S/16E-27K01 | M | | | | | | | | | | | | | | | | | |
| 08/01/74 | 5050 | | 8.1 | | 32 | 18 | 192 | 2.0 | 0 | 149 | 405 | 21 | 1.1 | .40 | -- | 762 | 154 | | |
| 1330 | 5050 | | 7.8 | 1170 | 1.60 | 1.48 | 8.35 | .05 | .00 | 2.44 | 8.43 | .59 | .02 | | -- | 745 | 32 | 6.7 | |
| | | | | | 14 | 13 | 73 | | | 21 | 73 | 5 | | | | | | | |
| | 21S/16E-35A01 | M | | | | | | | | | | | | | | | | | |
| 08/01/74 | 5050 | | 8.0 | | 58 | 36 | 192 | 2.6 | 0 | 120 | 528 | 40 | 9.7 | .60 | -- | 992 | 292 | | |
| 1230 | 5050 | | 7.9 | 1430 | 2.89 | 2.96 | 8.35 | .07 | .00 | 1.97 | 10.99 | 1.13 | .16 | | -- | 926 | 194 | 4.9 | |
| | | | | | 20 | 21 | 59 | | | 14 | 77 | 8 | 1 | | | | | | |
| | 21S/17E-03N01 | M | | | | | | | | | | | | | | | | | |
| 07/31/74 | 5050 | | 7.7 | | 55 | 32 | 121 | 2.3 | 0 | 133 | 378 | 25 | 6.3 | .40 | -- | 740 | 270 | | |
| 0950 | 5050 | | 7.7 | 1060 | 2.74 | 2.63 | 5.26 | .06 | .00 | 2.18 | 7.87 | .71 | .10 | | -- | 685 | 160 | 3.2 | |
| | | | | | 26 | 25 | 49 | 1 | | 20 | 72 | 7 | 1 | | | | | | |
| | 21S/17E-06B01 | M | | | | | | | | | | | | | | | | | |
| 08/01/74 | 5050 | | 8.2 | | 28 | 4.4 | 272 | 1.8 | 0 | 119 | 509 | 46 | 1.2 | .80 | -- | 894 | 88 | | |
| 1030 | 5050 | | 8.1 | 1440 | 1.40 | .36 | 11.83 | .05 | .00 | 1.95 | 10.60 | 1.30 | .02 | | -- | 922 | 0 | 12.6 | |
| | | | | | 10 | 3 | 87 | | | 14 | 76 | 9 | | | | | | | |
| | 21S/17E-14H01 | M | | | | | | | | | | | | | | | | | |
| 07/31/74 | 5050 | | 7.9 | | 62 | 30 | 121 | 2.3 | 0 | 130 | 384 | 32 | 10.0 | .40 | -- | 755 | 280 | | |
| 1250 | 5050 | | 7.8 | 1080 | 3.09 | 2.47 | 5.26 | .06 | .00 | 2.13 | 7.99 | .90 | .16 | | -- | 706 | 172 | 3.2 | |
| | | | | | 28 | 23 | 48 | 1 | | 19 | 71 | 8 | 1 | | | | | | |
| | 21S/17E-25H01 | M | | | | | | | | | | | | | | | | | |
| 07/31/74 | 5050 | | 8.1 | | 72 | 22 | 192 | 2.5 | 0 | 73 | 424 | 110 | 27.0 | .40 | -- | 910 | 270 | | |
| 0950 | 5050 | | 7.9 | 1380 | 3.59 | 1.81 | 8.35 | .06 | .00 | 1.20 | 8.83 | 3.10 | .44 | | -- | 886 | 210 | 5.1 | |
| | | | | | 26 | 13 | 60 | | | 9 | 65 | 23 | 3 | | | | | | |
| | 21S/18E-04D02 | M | | | | | | | | | | | | | | | | | |
| 07/29/74 | 5050 | | 8.3 | | 85 | 30 | 161 | 2.2 | 0 | 95 | 513 | 38 | 13.0 | .40 | -- | 908 | 334 | | |
| 1045 | 5050 | | 7.8 | 1310 | 4.24 | 2.47 | 7.00 | .06 | .00 | 1.56 | 10.68 | 1.07 | .21 | | -- | 889 | 258 | 3.8 | |
| | | | | | 31 | 18 | 51 | | | 12 | 79 | 8 | 2 | | | | | | |
| | 21S/18E-12D02 | M | | | | | | | | | | | | | | | | | |
| 07/30/74 | 5050 | | 8.3 | | 38 | 3.6 | 186 | .9 | 0 | 60 | 364 | 53 | 1.7 | .50 | -- | 680 | 110 | | |
| 0905 | 5050 | | 8.3 | 1060 | 1.90 | .30 | 8.09 | .02 | .00 | .98 | 7.58 | 1.49 | .03 | | -- | 677 | 61 | 7.7 | |
| | | | | | 18 | 3 | 78 | | | 10 | 75 | 15 | | | | | | | |
| | 21S/18E-22G01 | M | | | | | | | | | | | | | | | | | |
| 07/30/74 | 5050 | | 8.2 | | 45 | 6.8 | 167 | 1.0 | 0 | 71 | 361 | 38 | 7.8 | .30 | -- | 662 | 140 | | |
| 1230 | 5050 | | 8.0 | 1020 | 2.25 | .56 | 7.26 | .03 | .00 | 1.16 | 7.52 | 1.07 | .13 | | -- | 662 | 83 | 6.1 | |
| | | | | | 22 | 6 | 72 | | | 12 | 76 | 11 | 1 | | | | | | |
| | 21S/18E-30P01 | M | | | | | | | | | | | | | | | | | |
| 07/31/74 | 5050 | | 7.9 | | 13 | 8.6 | 23 | 1.5 | 0 | 71 | 19 | 27 | 1.5 | .10 | -- | 151 | 68 | | |
| 0940 | 5050 | | 7.5 | 245 | .65 | .71 | 1.00 | .04 | .00 | 1.16 | .40 | .76 | .02 | | -- | 129 | 10 | 1.2 | |
| | | | | | 27 | 30 | 42 | 2 | | 50 | 17 | 32 | 1 | | | | | | |
| | 21S/18E-35N01 | M | | | | | | | | | | | | | | | | | |
| 07/30/74 | 5050 | | 8.3 | | 35 | 2.3 | 200 | .9 | 0 | 50 | 380 | 55 | 12.0 | .40 | -- | 696 | 97 | | |
| 1020 | 5050 | | 8.0 | 1100 | 1.75 | .19 | 8.70 | .02 | .00 | .82 | 7.91 | 1.55 | .19 | | -- | 710 | 56 | 8.8 | |
| | | | | | 16 | 2 | 82 | | | 8 | 76 | 15 | 2 | | | | | | |
| | 21S/19E-11C02 | M | | | | | | | | | | | | | | | | | |
| 07/30/74 | 5050 | | 8.0 | | 16 | 3.2 | 223 | 1.6 | 0 | 227 | 302 | 20 | 9.8 | 1.00 | -- | 703 | 53 | | |
| 1330 | 5050 | | 7.8 | 1090 | .80 | .26 | 9.70 | .04 | .00 | 3.72 | 6.29 | .56 | .16 | | -- | 688 | 0 | 13.3 | |
| | | | | | 7 | 2 | 90 | | | 35 | 59 | 5 | 1 | | | | | | |
| | 21S/19E-19D01 | M | | | | | | | | | | | | | | | | | |
| 07/29/74 | 5050 | | 8.0 | | 26 | 3.9 | 167 | 1.2 | 0 | 135 | 280 | 24 | 1.1 | .60 | -- | 576 | 81 | | |
| 1310 | 5050 | | 8.0 | 904 | 1.30 | .32 | 7.26 | .03 | .00 | 2.21 | 5.83 | .68 | .02 | | -- | 570 | 0 | 8.1 | |
| | | | | | 15 | 4 | 81 | | | 25 | 67 | 8 | | | | | | | |
| | 21S/20E-27A01 | M | | | | | | | | | | | | | | | | | |
| 07/25/74 | 5050 | 78.8F | 7.3 | 1700 | 57 | 104 | 532 | 14 | 0 | 1440 | 2.3 | 380 | 2.4 | 1.10 | -- | 1820 | 572 | | X |
| 1340 | 5050 | 26.0C | 7.6 | 3220 | 2.84 | 8.55 | 23.14 | .36 | .00 | 23.60 | .05 | 10.72 | .04 | | -- | 1801 | 0 | 9.7 | |
| | | | | | 8 | 25 | 66 | 1 | | 69 | | 31 | | | | | | | |
| | 21S/21E-01C01 | M | | | | | | | | | | | | | | | | | |
| 07/26/74 | 5050 | 82.4F | 7.9 | 220 | 6.2 | .6 | 90 | .2 | 0 | 133 | 4.3 | 62 | 6.9 | .20 | -- | 253 | 18 | | X |
| 1130 | 5050 | 28.0C | 7.3 | 441 | .31 | .05 | 3.92 | .01 | .00 | 2.18 | .09 | 1.75 | .11 | | -- | 236 | 0 | 9.2 | |
| | | | | | 7 | 1 | 91 | | | 53 | 2 | 42 | 3 | | | | | | |
| | 21S/21E-26D01 | M | | | | | | | | | | | | | | | | | |
| 07/26/74 | 5050 | 84.2F | 7.3 | 1800 | 51 | 21 | 280 | 5.1 | 0 | 372 | 6.7 | 351 | 17.0 | .50 | -- | 964 | 214 | | |
| 1000 | 5050 | 29.0C | 7.5 | 1800 | 2.54 | 1.73 | 12.18 | .13 | .00 | 6.10 | .14 | 9.90 | .27 | | -- | 915 | 0 | 8.3 | |
| | | | | | 15 | 10 | 73 | 1 | | 37 | 1 | 60 | 2 | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| TE ME | SAMPLER LAB | | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCM | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | |
| | 21S/22E-08F01 | M | | | | | | | | | | | | | | | | | | |
| 30/74 | 5050 | | 75.2F | 7.3 | 1400 | 9.7 | 5.6 | 344 | 1.3 | 0 | 786 | 3.6 | 105 | .6 | 1.30 | -- | 895 | 47 | | |
| 300 | 5050 | | 24.0C | 7.9 | 1500 | .48 | .46 | 14.96 | .03 | .00 | 12.88 | .07 | 2.96 | .01 | | -- | 858 | 0 | 21.8 | |
| | | | | | | 3 | 3 | 94 | | | 81 | | 19 | | | | | | | |
| | 21S/22E-19A01 | M | | | | | | | | | | | | | | | | | | |
| 30/74 | 5050 | | 89.6F | 7.1 | 1600 | 22 | 9.7 | 325 | 4.1 | 3.0 | 748 | 2.1 | 125 | 11.0 | .90 | -- | 900 | 95 | | |
| 300 | 5050 | | 32.0C | 8.4 | 1510 | 1.10 | .80 | 14.14 | .10 | .10 | 12.26 | .04 | 3.53 | .18 | | -- | 871 | 0 | 14.5 | |
| | | | | | | 7 | 5 | 88 | 1 | 1 | 76 | | 22 | 1 | | | | | | |
| | 21S/22E-22M01 | M | | | | | | | | | | | | | | | | | | |
| 26/74 | 5050 | | 82.4F | 7.5 | 1300 | 41 | 7.3 | 242 | 1.4 | 0 | 470 | .3 | 202 | .2 | .40 | -- | 743 | 132 | | |
| 1200 | 5050 | | 28.0C | 7.6 | 1360 | 2.05 | .60 | 10.53 | .04 | .00 | 7.70 | .01 | 5.70 | .00 | | -- | 726 | 0 | 9.2 | |
| | | | | | | 16 | 5 | 80 | | | 57 | | 43 | | | | | | | |
| | 21S/22E-28D01 | M | | | | | | | | | | | | | | | | | | |
| 01/74 | 5050 | | 78.8F | 7.1 | 460 | 67 | 7.5 | 30 | .3 | 0 | 240 | 15 | 18 | 29.0 | .00 | -- | 308 | 198 | | |
| 0900 | 5050 | | 26.0C | 7.7 | 509 | 3.34 | .62 | 1.31 | .01 | .00 | 3.93 | .31 | .51 | .47 | | -- | 285 | 2 | 0.9 | |
| | | | | | | 63 | 12 | 25 | | | 75 | 6 | 10 | 9 | | | | | | |
| | 21S/22E-34A01 | M | | | | | | | | | | | | | | | | | | |
| 31/74 | 5050 | | 71.6F | 7.1 | 420 | 53 | 7.5 | 33 | .2 | 0 | 224 | 16 | 20 | 8.6 | .00 | -- | 272 | 163 | | |
| 1000 | 5050 | | 22.0C | 8.1 | 463 | 2.64 | .62 | 1.44 | .01 | .00 | 3.67 | .33 | .56 | .14 | | -- | 248 | 0 | 1.1 | |
| | | | | | | 56 | 13 | 31 | | | 78 | 7 | 12 | 3 | | | | | | |
| | 21S/22E-35C01 | M | | | | | | | | | | | | | | | | | | |
| 29/74 | 5050 | | 87.8F | 7.3 | 630 | 19 | 8.4 | 89 | 3.6 | 0 | 289 | 2.5 | 22 | 6.1 | .30 | -- | 328 | 82 | | |
| 1200 | 5050 | | 31.0C | 7.4 | 559 | .95 | .69 | 3.87 | .09 | .00 | 4.74 | .05 | .62 | .10 | | -- | 293 | 0 | 4.3 | |
| | | | | | | 17 | 12 | 69 | 2 | | 86 | 1 | 11 | 2 | | | | | | |
| | 21S/22E-36A02 | M | | | | | | | | | | | | | | | | | | |
| 26/74 | 5050 | | 80.6F | 7.4 | 295 | 12 | 3.4 | 47 | 2.5 | 0 | 138 | 8.9 | 15 | 1.7 | .20 | -- | 213 | 44 | | E |
| 1200 | 5050 | | 27.0C | 7.6 | 298 | .60 | .28 | 2.04 | .06 | .00 | 2.26 | .19 | .42 | .03 | | -- | 159 | 0 | 3.1 | T |
| | | | | | | 20 | 9 | 68 | 2 | | 78 | 7 | 14 | 1 | | | | | | |
| | 21S/23E-03C01 | M | | | | | | | | | | | | | | | | | | |
| 29/74 | 5050 | | 93.2F | 7.5 | 320 | 14 | 6.6 | 30 | .0 | 0 | 116 | 20 | 5.9 | 6.6 | .00 | -- | 141 | 62 | | X |
| 1330 | 5050 | | 34.0C | 8.2 | 253 | .70 | .54 | 1.31 | .00 | .00 | 1.90 | .42 | .17 | .11 | | -- | 140 | 0 | 1.7 | |
| | | | | | | 27 | 21 | 51 | | | 73 | 16 | 7 | 4 | | | | | | |
| | 21S/23E-09E01 | M | | | | | | | | | | | | | | | | | | |
| 30/74 | 5050 | | 75.2F | 7.5 | 310 | 19 | 3.3 | 49 | .0 | 0 | 154 | 12 | 9.4 | 11.0 | .00 | -- | 185 | 61 | | |
| 1200 | 5050 | | 24.0C | 8.2 | 306 | .95 | .27 | 2.13 | .00 | .00 | 2.52 | .25 | .27 | .18 | | -- | 179 | 0 | 2.7 | |
| | | | | | | 28 | 8 | 64 | | | 78 | 8 | 8 | 6 | | | | | | |
| | 21S/23E-14Q01 | M | | | | | | | | | | | | | | | | | | |
| 30/74 | 5050 | | 77.0F | 7.5 | 300 | 7.4 | 1.3 | 64 | .0 | 0 | 162 | 15 | 11 | 1.5 | .20 | -- | 186 | 24 | | |
| 1000 | 5050 | | 25.0C | 8.3 | 310 | .37 | .11 | 2.78 | .00 | .00 | 2.66 | .31 | .31 | .02 | | -- | 180 | 0 | 5.7 | |
| | | | | | | 11 | 3 | 85 | | | 81 | 9 | 9 | 1 | | | | | | |
| | 21S/23E-17M01 | M | | | | | | | | | | | | | | | | | | |
| 30/74 | 5050 | | 80.6F | 7.3 | 330 | 20 | 2.4 | 65 | .0 | 0 | 203 | 17 | 8.5 | 7.1 | .00 | -- | 229 | 60 | | |
| 0930 | 5050 | | 27.0C | 8.2 | 389 | 1.00 | .20 | 2.83 | .00 | .00 | 3.33 | .35 | .24 | .11 | | -- | 220 | 0 | 3.7 | |
| | | | | | | 25 | 5 | 70 | | | 83 | 9 | 6 | 3 | | | | | | |
| | 21S/23E-18N01 | M | | | | | | | | | | | | | | | | | | |
| 26/74 | 5050 | | 77.0F | 7.1 | 1200 | 68 | 8.4 | 213 | .4 | 0 | 435 | 211 | 33 | 69.0 | .20 | -- | 804 | 204 | | |
| 1300 | 5050 | | 25.0C | 7.9 | 1270 | 3.39 | .69 | 9.27 | .01 | .00 | 7.13 | 4.39 | .93 | 1.11 | | -- | 817 | 0 | 6.5 | |
| | | | | | | 25 | 5 | 69 | | | 53 | 32 | 7 | 8 | | | | | | |
| | 21S/23E-25A01 | M | | | | | | | | | | | | | | | | | | |
| 30/74 | 5050 | | 75.2F | 7.3 | 380 | 23 | 5.2 | 69 | .1 | 0 | 217 | 22 | 19 | 3.2 | .10 | -- | 244 | 79 | | |
| 1030 | 5050 | | 24.0C | 8.3 | 430 | 1.15 | .43 | 3.00 | .00 | .00 | 3.56 | .46 | .54 | .05 | | -- | 248 | 0 | 3.4 | |
| | | | | | | 25 | 9 | 66 | | | 77 | 10 | 12 | 1 | | | | | | |
| | 21S/24E-02F01 | M | | | | | | | | | | | | | | | | | | |
| 31/74 | 5050 | | | 7.5 | 600 | 20 | 3.9 | 79 | .1 | 0 | 180 | 35 | 40 | 4.2 | .10 | -- | 268 | 66 | | |
| 1100 | 5050 | | | 8.3 | 505 | 1.00 | .32 | 3.44 | .00 | .00 | 2.95 | .73 | 1.13 | .07 | | -- | 271 | 0 | 4.2 | |
| | | | | | | 21 | 7 | 72 | | | 60 | 15 | 23 | 1 | | | | | | |
| | 21S/24E-17A01 | M | | | | | | | | | | | | | | | | | | |
| 31/74 | 5050 | | 71.6F | 7.3 | 450 | 28 | 6.3 | 75 | .1 | 0 | 235 | 31 | 16 | 14.0 | .10 | -- | 291 | 96 | | |
| 0945 | 5050 | | 22.0C | 8.3 | 508 | 1.40 | .52 | 3.26 | .00 | .00 | 3.85 | .65 | .45 | .23 | | -- | 286 | 0 | 3.3 | |
| | | | | | | 27 | 10 | 63 | | | 74 | 13 | 9 | 4 | | | | | | |
| | 21S/24E-18A01 | M | | | | | | | | | | | | | | | | | | |
| 31/74 | 5050 | | 78.8F | 7.3 | 440 | 20 | 4.4 | 71 | .0 | 0 | 177 | 24 | 35 | 7.3 | .10 | -- | 254 | 68 | | |
| | 5050 | | 26.0C | 8.0 | 460 | 1.00 | .36 | 3.09 | .00 | .00 | 2.90 | .50 | .99 | .12 | | -- | 249 | 0 | 3.7 | |
| | | | | | | 22 | 8 | 69 | | | 64 | 11 | 22 | 3 | | | | | | |
| | 21S/24E-36N01 | M | | | | | | | | | | | | | | | | | | |
| 8/01/74 | 5050 | | 73.4F | 7.1 | 650 | 88 | 8.0 | 45 | .7 | 0 | 254 | 44 | 64 | 19.0 | .10 | -- | 421 | 253 | | |
| 0930 | 5050 | | 23.0C | 7.6 | 724 | 4.39 | .66 | 1.96 | .02 | .00 | 4.16 | .92 | 1.80 | .31 | | -- | 394 | 45 | 1.2 | |
| | | | | | | 62 | 9 | 28 | | | 58 | 13 | 25 | 4 | | | | | | |
| | 21S/25E-14R01 | M | | | | | | | | | | | | | | | | | | |
| 8/01/74 | 5050 | | 71.6F | 7.2 | 370 | 51 | 8.0 | 27 | 1.1 | 0 | 216 | 15 | 8.2 | 19.0 | .10 | -- | 256 | 160 | | |
| 1100 | 5050 | | 22.0C | 7.7 | 427 | 2.54 | .66 | 1.17 | .03 | .00 | 3.54 | .31 | .23 | .31 | | -- | 236 | 0 | 0.9 | |
| | | | | | | 58 | 15 | 27 | 1 | | 81 | 7 | 5 | 7 | | | | | | |
| | 21S/25E-15L01 | M | | | | | | | | | | | | | | | | | | |
| 8/01/74 | 5050 | | 71.6F | 7.2 | 320 | 32 | 2.9 | 41 | .9 | 0 | 165 | 20 | 12 | 19.0 | .10 | -- | 237 | 92 | | |
| 1115 | 5050 | | 22.0C | 7.9 | 381 | 1.60 | .24 | 1.78 | .02 | .00 | 2.70 | .42 | .34 | .31 | | -- | 209 | 0 | 1.9 | |
| | | | | | | 44 | 7 | 49 | 1 | | 72 | 11 | 9 | 8 | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| DATE TIME | SAMPLER LAB | | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F | SIO2 | TDS SUM | TH NCM | SAR | RE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | |
| | | 21S/25E-17A01 M | | | | | | | | | | | | | | | | | | | |
| 08/01/74 | 5050 | | 73.4F | 7.8 | 200 | 7.0 | .4 | 40 | .5 | 0 | 84 | 11 | 11 | 6.5 | .10 | -- | | 132 | 19 | | |
| 1130 | 5050 | | 23.0C | 8.3 | 208 | .35 | .03 | 1.74 | .01 | .00 | 1.38 | .23 | .31 | .10 | | -- | | 118 | 0 | 4.0 | |
| | | | | | | 16 | 1 | 82 | | | 68 | 11 | 15 | 5 | | | | | | | |
| | | 21S/25E-31P01 M | | | | | | | | | | | | | | | | | | | |
| 08/01/74 | 5050 | | 73.4F | 7.3 | 350 | 33 | 3.8 | 41 | .2 | 0 | 144 | 20 | 28 | 11.0 | .10 | -- | | 230 | 98 | | |
| 0930 | 5050 | | 23.0C | 8.0 | 389 | 1.65 | .31 | 1.78 | .01 | .00 | 2.36 | .42 | .79 | .18 | | -- | | 208 | 0 | 1.8 | |
| | | | | | | 44 | 8 | 47 | | | 63 | 11 | 21 | 5 | | | | | | | |
| | | 21S/25E-33R01 M | | | | | | | | | | | | | | | | | | | |
| 08/01/74 | 5050 | | 75.2F | 7.9 | 200 | 9.7 | .0 | 33 | .7 | 0 | 101 | 6.2 | 8.6 | 1.6 | .00 | -- | | 131 | 24 | | |
| 1000 | 5050 | | 24.0C | 7.9 | 202 | .48 | .00 | 1.44 | .02 | .00 | 1.66 | .13 | .24 | .03 | | -- | | 109 | 0 | 2.9 | |
| | | | | | | 25 | | 74 | 1 | | 81 | 6 | 12 | 1 | | | | | | | |
| | | 21S/25E-36N01 M | | | | | | | | | | | | | | | | | | | |
| 08/01/74 | 5050 | | 73.4F | 7.3 | 400 | 58 | 7.7 | 23 | 1.7 | 0 | 200 | 16 | 25 | 11.0 | .10 | -- | | 254 | 176 | | |
| 1015 | 5050 | | 23.0C | 7.6 | 453 | 2.89 | .63 | 1.00 | .04 | .00 | 3.28 | .33 | .71 | .18 | | -- | | 241 | 12 | 0.8 | |
| | | | | | | 63 | 14 | 22 | 1 | | 73 | 7 | 16 | 4 | | | | | | | |
| | | 21S/26E-12R01 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | 71.6F | 7.1 | 490 | 67 | 14 | 31 | 1.6 | 0 | 259 | 34 | 21 | 22.0 | .10 | -- | | 324 | 226 | | |
| 1030 | 5050 | | 22.0C | 8.0 | 571 | 3.34 | 1.15 | 1.35 | .04 | .00 | 4.25 | .71 | .59 | .35 | | -- | | 318 | 12 | 0.9 | |
| | | | | | | 57 | 20 | 23 | 1 | | 72 | 12 | 10 | 6 | | | | | | | |
| | | 21S/26E-22N01 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | 71.6F | 7.3 | 240 | 56 | 7.7 | 19 | 1.5 | 0 | 209 | 15 | 9.3 | 16.0 | .00 | -- | | 204 | 171 | | |
| 0930 | 5050 | | 22.0C | 8.1 | 411 | 2.79 | .63 | .83 | .04 | .00 | 3.43 | .31 | .26 | .26 | | -- | | 227 | 0 | 0.6 | |
| | | | | | | 65 | 15 | 19 | 1 | | 81 | 7 | 6 | 6 | | | | | | | |
| | | 21S/26E-26A01 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | 68.0F | 7.1 | 260 | 41 | 6.6 | 14 | 1.3 | 0 | 157 | 13 | 5.6 | 12.0 | .00 | -- | | 171 | 129 | | |
| 0945 | 5050 | | 20.0C | 7.9 | 301 | 2.05 | .54 | .61 | .03 | .00 | 2.57 | .27 | .16 | .19 | | -- | | 171 | 1 | 0.5 | |
| | | | | | | 63 | 17 | 19 | 1 | | 81 | 8 | 5 | 6 | | | | | | | |
| | | 21S/26E-31R02 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | 71.6F | 7.1 | 550 | 70 | 16 | 29 | 2.1 | 0 | 273 | 28 | 22 | 30.0 | .10 | -- | | 362 | 242 | | |
| 0830 | 5050 | | 22.0C | 7.7 | 594 | 3.49 | 1.32 | 1.26 | .05 | .00 | 4.47 | .58 | .62 | .48 | | -- | | 331 | 17 | 0.8 | |
| | | | | | | 57 | 22 | 21 | 1 | | 73 | 9 | 10 | 8 | | | | | | | |
| | | 21S/26E-32A01 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | 71.6F | 7.1 | 480 | 77 | 12 | 24 | 1.8 | 0 | 277 | 18 | 17 | 25.0 | .00 | -- | | 309 | 243 | | |
| 0900 | 5050 | | 22.0C | 7.9 | 563 | 3.84 | .99 | 1.04 | .05 | .00 | 4.54 | .37 | .48 | .40 | | -- | | 311 | 15 | 0.7 | |
| | | | | | | 65 | 17 | 18 | 1 | | 78 | 6 | 8 | 7 | | | | | | | |
| | | 21S/26E-33F01 M | | | | | | | | | | | | | | | | | | | |
| 08/02/74 | 5050 | | 73.4F | 7.1 | 400 | 62 | 9.1 | 31 | 1.8 | 0 | 252 | 19 | 12 | 21.0 | .00 | -- | | 266 | 192 | | |
| 1200 | 5050 | | 23.0C | 7.9 | 509 | 3.09 | .75 | 1.35 | .05 | .00 | 4.13 | .40 | .34 | .34 | | -- | | 280 | 0 | 1.0 | |
| | | | | | | 59 | 14 | 26 | 1 | | 79 | 8 | 7 | 7 | | | | | | | |
| | | 21S/27E-02E01 M | | | | | | | | | | | | | | | | | | | |
| 08/05/74 | 5050 | | 75.2F | 7.3 | 700 | 40 | 31 | 59 | 2.3 | 0 | 344 | 41 | 15 | 24.0 | .00 | -- | | 407 | 226 | | |
| 1200 | 5050 | | 24.0C | 7.8 | 682 | 2.00 | 2.55 | 2.57 | .06 | .00 | 5.64 | .85 | .42 | .39 | | -- | | 381 | 0 | 1.7 | |
| | | | | | | 28 | 36 | 36 | 1 | | 77 | 12 | 6 | 5 | | | | | | | |
| | | 21S/27E-07Q01 M | | | | | | | | | | | | | | | | | | | |
| 08/05/74 | 5050 | | 73.4F | 6.9 | 700 | 76 | 29 | 48 | 1.9 | 0 | 323 | 43 | 47 | 40.0 | .10 | -- | | 443 | 310 | | |
| 0915 | 5050 | | 23.0C | 7.9 | 801 | 3.79 | 2.38 | 2.09 | .05 | .00 | 5.29 | .90 | 1.33 | .65 | | -- | | 444 | 44 | 1.2 | |
| | | | | | | 46 | 29 | 25 | 1 | | 65 | 11 | 16 | 8 | | | | | | | |
| | | 21S/27E-21R01 M | | | | | | | | | | | | | | | | | | | |
| 08/05/74 | 5050 | | 73.4F | 7.0 | 390 | 52 | 10 | 26 | 2.0 | 0 | 187 | 22 | 24 | 15.0 | .20 | -- | | 260 | 172 | | |
| 0930 | 5050 | | 23.0C | 7.6 | 457 | 2.59 | .82 | 1.13 | .05 | .00 | 3.06 | .46 | .68 | .24 | | -- | | 243 | 18 | 0.9 | |
| | | | | | | 56 | 18 | 25 | 1 | | 69 | 10 | 15 | 5 | | | | | | | |
| | | 21S/27E-32J01 M | | | | | | | | | | | | | | | | | | | |
| 08/05/74 | 5050 | | 66.2F | 7.0 | 290 | 31 | 5.2 | 15 | 1.8 | 0 | 132 | 8.2 | 7.2 | 3.4 | .00 | -- | | 161 | 99 | | |
| 0950 | 5050 | | 19.0C | 7.6 | 255 | 1.55 | .43 | .65 | .05 | .00 | 2.16 | .17 | .20 | .05 | | -- | | 137 | 0 | 0.7 | |
| | | | | | | 58 | 16 | 24 | 2 | | 84 | 7 | 8 | 2 | | | | | | | |
| | | 21S/27E-34P01 M | | | | | | | | | | | | | | | | | | | |
| 08/05/74 | 5050 | | 71.6F | 7.0 | 700 | 85 | 12 | 58 | 5.0 | 0 | 311 | 38 | 43 | 48.0 | .20 | -- | | 454 | 264 | | |
| 1000 | 5050 | | 22.0C | 7.4 | 774 | 4.24 | .99 | 2.52 | .13 | .00 | 5.10 | .79 | 1.21 | .77 | | -- | | 442 | 7 | 1.6 | |
| | | | | | | 54 | 13 | 32 | 2 | | 65 | 10 | 15 | 10 | | | | | | | |
| | | 21S/28E-32K01 M | | | | | | | | | | | | | | | | | | | |
| 08/05/74 | 5050 | | | 7.4 | | 82 | 22 | 74 | 1.4 | 0 | 374 | 40 | 44 | 57.0 | .20 | -- | | 529 | 297 | | |
| 1330 | 5050 | | | 7.4 | 882 | 4.09 | 1.81 | 3.22 | .04 | .00 | 6.13 | .83 | 1.24 | .92 | | -- | | 504 | 0 | 1.9 | |
| | | | | | | 45 | 20 | 35 | | | 67 | 9 | 14 | 10 | | | | | | | |
| | | 21S/28E-33N01 M | | | | | | | | | | | | | | | | | | | |
| 08/05/74 | 5050 | | | 7.3 | | 42 | 6.6 | 21 | 1.3 | 0 | 168 | 14 | 10 | 11.0 | .10 | -- | | 216 | 132 | | |
| 1305 | 5050 | | | 7.4 | 358 | 2.10 | .54 | .91 | .03 | .00 | 2.75 | .29 | .28 | .18 | | -- | | 189 | 0 | 0.8 | |
| | | | | | | 59 | 15 | 25 | 1 | | 79 | 8 | 8 | 5 | | | | | | | |
| | | 21S/28E-35L02 M | | | | | | | | | | | | | | | | | | | |
| 08/05/74 | 5050 | | | 7.3 | | 38 | 38 | 27 | 2.0 | 0 | 295 | 20 | 17 | 23.0 | .00 | -- | | 327 | 253 | | |
| 0930 | 5050 | | | 7.3 | 584 | 1.90 | 3.13 | 1.17 | .05 | .00 | 4.84 | .42 | .48 | .37 | | -- | | 310 | 10 | 0.7 | |
| | | | | | | 30 | 50 | 19 | 1 | | 79 | 7 | 8 | 6 | | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| TE ME | SAMPLER LAB | | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCH | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | |
| | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | |
| | 255/25F-01F01 | M | | | | | | | | | | | | | | | | | | |
| 02/74 | 5205 | | | | | 51 | 1.6 | 101 | 5.2 | 0 | 102 | 87 | 85 | 81.0 | -- | .1 | 463* | 134 | | |
| | 5806 | | | 7.6 | 680 | 2.54 | .13 | 4.39 | .13 | .00 | 1.67 | 1.81 | 2.40 | 1.31 | | -- | 462 | 50 | 3.8 | |
| | | | | | | 35 | 2 | 61 | 2 | | 23 | 25 | 33 | 18 | | | | | | |
| | 255/25F-02M01 | M | | | | | | | | | | | | | | | | | | |
| 02/74 | 5205 | | | | | 29 | 2.4 | 48 | 4.8 | 0 | 62 | 87 | 19 | 29.0 | -- | .1 | 251* | 83 | | |
| | 5806 | | | 7.7 | 380 | 1.45 | .20 | 2.09 | .12 | .00 | 1.02 | 1.81 | .55 | .47 | | -- | 250 | 32 | 2.3 | |
| | | | | | | 38 | 5 | 54 | 3 | | 26 | 47 | 14 | 12 | | | | | | |
| | 255/25E-02R02 | M | | | | | | | | | | | | | | | | | | |
| 02/74 | 5205 | | | | | 44 | 2.3 | 58 | 6.0 | 0 | 84 | 56 | 46 | 74.4 | -- | .1 | 329* | 120 | | |
| | 5806 | | | 7.7 | 510 | 2.20 | .19 | 2.52 | .15 | .00 | 1.38 | 1.17 | 1.32 | 1.20 | | -- | 329 | 51 | 2.3 | |
| | | | | | | 43 | 4 | 50 | 3 | | 27 | 23 | 26 | 24 | | | | | | |
| | 255/25F-10A01 | M | | | | | | | | | | | | | | | | | | |
| 02/74 | 5205 | | | | | 38 | 1.7 | 55 | 5.0 | 0 | 93 | 60 | 41 | 38.4 | -- | .2 | 285* | 102 | | |
| | 5806 | | | 7.7 | 440 | 1.90 | .14 | 2.39 | .13 | .00 | 1.52 | 1.25 | 1.17 | .62 | | -- | 285 | 26 | 2.4 | |
| | | | | | | 42 | 3 | 52 | 3 | | 33 | 27 | 26 | 14 | | | | | | |
| | 255/25E-11E01 | M | | | | | | | | | | | | | | | | | | |
| 02/74 | 5205 | | | | | 17 | .3 | 84 | 3.0 | 21 | 53 | 60 | 38 | 41.5 | -- | .1 | 292* | 44 | | E |
| | 5806 | | | 8.4 | 410 | .85 | .02 | 3.65 | .08 | .73 | .87 | 1.25 | 1.08 | .67 | | -- | 292 | 0 | 5.5 | |
| | | | | | | 18 | | 79 | 2 | 16 | 19 | 27 | 23 | 15 | | | | | | |
| | 255/25F-11H01 | M | | | | | | | | | | | | | | | | | | |
| 02/74 | 5205 | | | | | 41 | 1.5 | 55 | 5.2 | 0 | 98 | 52 | 48 | 39.7 | -- | .1 | 292* | 109 | | |
| | 5806 | | | 7.7 | 450 | 2.05 | .12 | 2.39 | .13 | .00 | 1.61 | 1.08 | 1.36 | .64 | | -- | 291 | 28 | 2.3 | |
| | | | | | | 44 | 3 | 51 | 3 | | 34 | 23 | 29 | 14 | | | | | | |
| | 255/25E-11J01 | M | | | | | | | | | | | | | | | | | | |
| 02/74 | 5205 | | | | | 30 | 1.0 | 45 | 3.8 | 0 | 130 | 35 | 18 | 15.5 | -- | .1 | 213* | 79 | | |
| | 5806 | | | 7.8 | 330 | 1.50 | .08 | 1.96 | .10 | .00 | 2.13 | .73 | .51 | .25 | | -- | 212 | 0 | 2.2 | |
| | | | | | | 41 | 2 | 54 | 3 | | 59 | 20 | 14 | 7 | | | | | | |
| | 255/25F-11P01 | M | | | | | | | | | | | | | | | | | | |
| 02/74 | 5205 | | | | | 30 | 2.2 | 54 | 5.0 | 0 | 101 | 40 | 31 | 45.9 | -- | .1 | 260* | 84 | | |
| | 5806 | | | 7.7 | 410 | 1.50 | .18 | 2.35 | .13 | .00 | 1.66 | .83 | .90 | .74 | | -- | 259 | 1 | 2.6 | |
| | | | | | | 36 | 4 | 56 | 3 | | 40 | 20 | 22 | 18 | | | | | | |
| | 255/25E-12E01 | M | | | | | | | | | | | | | | | | | | |
| 02/74 | 5205 | | | | | 42 | 6.5 | 48 | 6.6 | 0 | 151 | 25 | 27 | 68.8 | -- | .1 | 300* | 132 | | |
| | 5806 | | | 7.4 | 440 | 2.10 | .53 | 2.09 | .17 | .00 | 2.47 | .52 | .77 | 1.11 | | -- | 298 | 8 | 1.8 | |
| | | | | | | 43 | 11 | 43 | 3 | | 51 | 11 | 16 | 23 | | | | | | |
| | 265/18E-18F03 | M | | | | | | | | | | | | | | | | | | |
| /07/74 | 5121 | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| | 5806 | | | | 1980 | | | | | | | | | | | -- | | | | |
| | 295/25F-10P02 | M | | | | | | | | | | | | | | | | | | |
| 5/07/74 | 5121 | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| | 5806 | | | | 650 | | | | | | | | | | | -- | | | | |
| | 295/26F-35K01 | M | | | | | | | | | | | | | | | | | | |
| 5/07/74 | 5121 | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | | |
| | 5806 | | | | 240 | | | | | | | | | | | -- | | | | |
| | 295/27F-23H01 | M | | | | | | | | | | | | | | | | | | |
| 2/14/74 | 5701 | | 66 F | | | 27 | 2.0 | 21 | 2.3 | .2 | 109 | 13 | 17 | 3.0 | -- | .1 | 166 | 78 | | |
| | 5701 | | 19 C | 7.5 | 249 | 1.35 | .16 | .91 | .06 | .01 | 1.79 | .27 | .48 | .05 | | 26.0 | 165 | 0 | 1.1 | |
| | | | | | | 54 | 6 | 37 | 2 | | 69 | 10 | 18 | 2 | | | | | | |
| 2/27/74 | 5701 | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .10 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | | -- | | | | |
| | 295/27E-25B02 | M | | | | | | | | | | | | | | | | | | |
| 9/05/74 | 5701 | | 68 F | | | 27 | 4.0 | 19 | 2.3 | .2 | 107 | 16 | 13 | 4.0 | -- | .1 | 164 | 83 | | |
| | 5701 | | 20 C | 7.4 | 260 | 1.35 | .33 | .83 | .06 | .01 | 1.75 | .33 | .37 | .06 | | 25.0 | 163 | 0 | 0.9 | |
| | | | | | | 53 | 13 | 32 | 2 | | 69 | 13 | 15 | 2 | | | | | | |
| | 295/27E-25D02 | M | | | | | | | | | | | | | | | | | | |
| 3/13/74 | 5701 | | | | | 25 | 4.0 | 19 | 2.1 | .4 | 97 | 14 | 14 | 5.0 | -- | .1 | 158 | 78 | | |
| | 5701 | | | 7.8 | 238 | 1.25 | .33 | .83 | .05 | .01 | 1.59 | .29 | .39 | .08 | | 26.0 | 157 | 0 | 0.9 | |
| | | | | | | 51 | 13 | 34 | 2 | | 67 | 12 | 17 | 3 | | | | | | |
| | 295/27E-25G01 | M | | | | | | | | | | | | | | | | | | |
| 5/08/74 | 5701 | | 66 F | | | 23 | 3.0 | 18 | 2.4 | .3 | 95 | 16 | 13 | 1.0 | -- | .2 | 148 | 70 | | |
| | 5701 | | 19 C | 7.6 | 218 | 1.15 | .25 | .78 | .06 | .01 | 1.56 | .33 | .37 | .02 | | 24.0 | 147 | 0 | 0.9 | |
| | | | | | | 51 | 11 | 35 | 3 | | 68 | 14 | 16 | 1 | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| DATE TIME | SAMPLER LAB | | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE | CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | MILLIGRAMS PER LITER B | F | SIO2 | TDS SUM | TH NCM | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | | |
| | 29S/27E-25G02 | M | | | | | | | | | | | | | | | | | | | | |
| 09/05/74 | 5701 | | 66 | F | | | 27 | 4.0 | 19 | 2.2 | .3 | 107 | 17 | 13 | 3.0 | -- | .1 | | 161 | 83 | | |
| | 5701 | | 19 | C | 7.6 | 252 | 1.35 | .33 | .83 | .06 | .01 | 1.75 | .35 | .37 | .05 | | | 23.0 | 161 | 0 | 0.9 | |
| | | | | | | | 53 | 13 | 32 | 2 | | 69 | 14 | 15 | 2 | | | | | | | |
| | 29S/27E-25R01 | M | | | | | | | | | | | | | | | | | | | | |
| 01/16/74 | 5701 | | 66 | F | | | 29 | 3.0 | 19 | 2.2 | .2 | 114 | 15 | 11 | 4.0 | -- | .2 | | 165 | 84 | | |
| | 5701 | | 19 | C | 7.4 | 244 | 1.45 | .25 | .83 | .06 | .01 | 1.87 | .31 | .31 | .06 | | | 25.0 | 164 | 0 | 0.9 | |
| | | | | | | | 56 | 10 | 32 | 2 | | 73 | 12 | 12 | 2 | | | | | | | |
| | 29S/27E-26J01 | M | | | | | | | | | | | | | | | | | | | | |
| 03/20/74 | 5701 | | 65 | F | | | 27 | 1.0 | 19 | 1.9 | .7 | 103 | 15 | 10 | 3.0 | -- | .2 | | 153 | 72 | | |
| | 5701 | | 18 | C | 8.0 | 221 | 1.35 | .08 | .83 | .05 | .02 | 1.69 | .31 | .28 | .05 | | | 25.0 | 153 | 0 | 1.0 | |
| | | | | | | | 58 | 3 | 36 | 2 | 1 | 72 | 13 | 12 | 2 | | | | | | | |
| | 29S/27E-35A02 | M | | | | | | | | | | | | | | | | | | | | |
| 08/12/74 | 5701 | | 67 | F | | 199 | 21 | 3.0 | 16 | 1.7 | .4 | 90 | 13 | 9.0 | 1.0 | -- | .2 | | 136 | 64 | | |
| | 5701 | | 19 | C | 7.8 | 199 | 1.05 | .25 | .70 | .04 | .01 | 1.48 | .27 | .25 | .02 | | | 26.0 | 135 | 0 | 0.9 | |
| | | | | | | | 51 | 12 | 34 | 2 | | 73 | 13 | 12 | 1 | | | | | | | |
| | 29S/27E-35E01 | M | | | | | | | | | | | | | | | | | | | | |
| 01/16/74 | 5701 | | 66 | F | | | 32 | 1.0 | 18 | 2.3 | .2 | 117 | 15 | 14 | 1.0 | -- | .3 | | 166 | 86 | | |
| | 5701 | | 19 | C | 7.5 | 246 | 1.60 | .08 | .78 | .06 | .01 | 1.92 | .31 | .39 | .02 | | | 25.0 | 166 | 0 | 0.9 | |
| | | | | | | | 63 | 3 | 31 | 2 | | 72 | 12 | 15 | 1 | | | | | | | |
| 02/27/74 | 5701 | | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .12 | -- | | | | | |
| | 5701 | | | | | | | | | | | | | | | | -- | | | | | |
| | 29S/27E-35G01 | M | | | | | | | | | | | | | | | | | | | | |
| 08/12/74 | 5701 | | 68 | F | | 221 | 22 | 2.0 | 19 | 2.0 | .2 | 92 | 14 | 12 | 2.0 | -- | .2 | | 144 | 66 | | |
| | 5701 | | 20 | C | 7.4 | 221 | 1.10 | .16 | .83 | .05 | .01 | 1.51 | .29 | .34 | .03 | | | 24.0 | 142 | 0 | 1.0 | |
| | | | | | | | 51 | 7 | 39 | 2 | | 69 | 13 | 16 | 1 | | | | | | | |
| | 29S/27E-36H01 | M | | | | | | | | | | | | | | | | | | | | |
| 08/12/74 | 5701 | | 68 | F | | | 50 | 10 | 28 | 2.9 | .1 | 139 | 31 | 55 | 7.0 | -- | .1 | | 280 | 168 | | |
| | 5701 | | 20 | C | 7.2 | 475 | 2.50 | .82 | 1.22 | .07 | .00 | 2.28 | .65 | 1.55 | .11 | | | 27.0 | 279 | 52 | 0.9 | |
| | | | | | | | 54 | 18 | 26 | 2 | | 50 | 14 | 34 | 2 | | | | | | | |
| | 29S/27E-36K01 | M | | | | | | | | | | | | | | | | | | | | |
| 02/14/74 | 5701 | | 65 | F | | | 21 | 2.0 | 18 | 1.9 | .2 | 92 | 13 | 12 | .0 | -- | .5 | | 139 | 62 | | |
| | 5701 | | 18 | C | 7.5 | 212 | 1.05 | .16 | .78 | .05 | .01 | 1.51 | .27 | .34 | .00 | | | 26.0 | 139 | 0 | 1.0 | |
| | | | | | | | 51 | 8 | 38 | 2 | | 71 | 13 | 16 | | | | | | | | |
| 08/12/74 | 5701 | | 67 | F | | | 26 | 2.0 | 20 | 2.1 | .2 | 97 | 18 | 15 | .0 | -- | .2 | | 156 | 74 | | |
| | 5701 | | 19 | C | 7.5 | 245 | 1.30 | .16 | .87 | .05 | .01 | 1.59 | .37 | .42 | .00 | | | 25.0 | 156 | 0 | 1.0 | |
| | | | | | | | 55 | 7 | 37 | 2 | | 67 | 15 | 18 | | | | | | | | |
| | 29S/28E-16E01 | M | | | | | | | | | | | | | | | | | | | | |
| 09/05/74 | 5701 | | 66 | F | | | 30 | 3.0 | 19 | 1.7 | .3 | 117 | 16 | 13 | .0 | -- | .2 | | 167 | 87 | | |
| | 5701 | | 19 | C | 7.6 | 257 | 1.50 | .25 | .83 | .04 | .01 | 1.92 | .33 | .37 | .00 | | | 27.0 | 168 | 0 | 0.9 | |
| | | | | | | | 57 | 10 | 32 | 2 | | 73 | 13 | 14 | | | | | | | | |
| | 29S/28E-16M01 | M | | | | | | | | | | | | | | | | | | | | |
| 01/16/74 | 5701 | | 68 | F | | | 41 | 2.0 | 20 | 2.0 | .5 | 111 | 31 | 22 | 4.0 | -- | .2 | | 201 | 110 | | |
| | 5701 | | 20 | C | 7.9 | 311 | 2.05 | .16 | .87 | .05 | .02 | 1.82 | .65 | .62 | .06 | | | 25.0 | 202 | 19 | 0.8 | |
| | | | | | | | 65 | 5 | 28 | 2 | 1 | 57 | 21 | 20 | 2 | | | | | | | |
| | 29S/28E-16Q01 | M | | | | | | | | | | | | | | | | | | | | |
| 06/12/74 | 5701 | | 68 | F | | | 33 | 4.0 | 20 | 2.3 | .3 | 122 | 23 | 14 | 2.0 | -- | .1 | | 181 | 98 | | |
| | 5701 | | 20 | C | 7.5 | 286 | 1.65 | .33 | .87 | .06 | .01 | 2.00 | .48 | .39 | .03 | | | 23.0 | 182 | 0 | 0.9 | |
| | | | | | | | 57 | 11 | 30 | 2 | | 69 | 16 | 13 | 1 | | | | | | | |
| | 29S/28E-16R01 | M | | | | | | | | | | | | | | | | | | | | |
| 09/05/74 | 5701 | | 78 | F | | | 25 | 1.0 | 27 | 1.6 | .4 | 90 | 31 | 16 | .0 | -- | .1 | | 169 | 69 | | |
| | 5701 | | 26 | C | 7.8 | 268 | 1.25 | .08 | 1.17 | .04 | .01 | 1.48 | .65 | .45 | .00 | | | 22.0 | 168 | 0 | 1.4 | |
| | | | | | | | 49 | 3 | 46 | 2 | | 57 | 25 | 17 | | | | | | | | |
| | 29S/28E-17R01 | M | | | | | | | | | | | | | | | | | | | | |
| 08/12/74 | 5701 | | 72 | F | | | 46 | 6.0 | 22 | 2.1 | .3 | 104 | 47 | 42 | .0 | -- | .1 | | 244 | 142 | | |
| | 5701 | | 22 | C | 7.6 | 401 | 2.30 | .49 | .96 | .05 | .01 | 1.70 | .98 | 1.18 | .00 | | | 26.0 | 243 | 54 | 0.8 | |
| | | | | | | | 61 | 13 | 25 | 1 | | 44 | 25 | 30 | | | | | | | | |
| | 29S/28E-19J03 | M | | | | | | | | | | | | | | | | | | | | |
| 01/16/74 | 5701 | | 68 | F | | | 21 | 2.0 | 17 | 1.6 | .3 | 87 | 12 | 10 | 2.0 | -- | .2 | | 132 | 60 | | |
| | 5701 | | 20 | C | 7.7 | 195 | 1.05 | .16 | .74 | .04 | .01 | 1.43 | .25 | .28 | .03 | | | 24.0 | 133 | 0 | 1.0 | |
| | | | | | | | 53 | 8 | 37 | 2 | 1 | 72 | 13 | 14 | 2 | | | | | | | |
| | 29S/28E-19K01 | M | | | | | | | | | | | | | | | | | | | | |
| 02/14/74 | 5701 | | 66 | F | | | 26 | 2.0 | 19 | 2.0 | .2 | 109 | 15 | 11 | .0 | -- | .2 | | 157 | 76 | | |
| | 5701 | | 19 | C | 7.4 | 236 | 1.30 | .16 | .83 | .05 | .01 | 1.79 | .31 | .31 | .00 | | | 27.0 | 156 | 0 | 1.0 | |
| | | | | | | | 56 | 7 | 35 | 2 | | 74 | 13 | 13 | | | | | | | | |
| | 29S/28E-19L01 | M | | | | | | | | | | | | | | | | | | | | |
| 05/08/74 | 5701 | | 68 | F | | | 30 | 3.0 | 20 | 2.2 | .2 | 114 | 16 | 14 | 1.0 | -- | .1 | | 167 | 86 | | |
| | 5701 | | 20 | C | 7.5 | 264 | 1.50 | .25 | .87 | .06 | .01 | 1.87 | .33 | .39 | .02 | | | 25.0 | 167 | 0 | 0.9 | |
| | | | | | | | 56 | 9 | 32 | 2 | | 71 | 13 | 15 | 1 | | | | | | | |
| | 29S/28E-19N02 | M | | | | | | | | | | | | | | | | | | | | |
| 04/16/74 | 5701 | | 67 | F | | | 34 | 4.0 | 21 | 2.8 | .4 | 121 | 28 | 13 | 4.0 | -- | .2 | | 193 | 100 | | |
| | 5701 | | 19 | C | 7.7 | 286 | 1.70 | .33 | .91 | .07 | .01 | 1.98 | .58 | .37 | .06 | | | 26.0 | 193 | 2 | 0.9 | |
| | | | | | | | 56 | 11 | 30 | 2 | | 66 | 19 | 12 | 2 | | | | | | | |
| 05/08/74 | 5701 | | | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .22 | -- | | | | | |
| | 5701 | | | | | | | | | | | | | | | | -- | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| DATE TIME | SAMPLER LAB | TEMP | FIELD LABORATORY PH | FIELD LABORATORY EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER | | | | MILLIEQUIVALENTS PER LITER | | | | PERCENT REACTANCE VALUE | | | | MILLIGRAMS PER LITER | | | | | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TH NCM | SAR | | |
| | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | | |
| | 29S/28E-19Q01 | M | | | | | | | | | | | | | | | | | | |
| 4/17/74 | 5701 | 67 | F | | 29 | 1.0 | 18 | 2.0 | 1.1 | 105 | 14 | 11 | 2.0 | -- | .2 | 155 | 76 | | | |
| | 5701 | 19 | C | 8.2 | 224 1.45 | .08 | .78 | .05 | .04 | 1.72 | .29 | .31 | .03 | | 24.0 | 154 | 0 | 0.9 | | |
| | | | | | 61 | 3 | 33 | 2 | 2 | 72 | 12 | 13 | 1 | | | | | | | |
| | 29S/28E-20A01 | M | | | | | | | | | | | | | | | | | | |
| 1/16/74 | 5701 | 72 | F | | 68 | 4.0 | 24 | 2.3 | .4 | 94 | 69 | 64 | 8.0 | -- | .1 | 311 | 186 | | | |
| | 5701 | 22 | C | 7.6 | 509 3.39 | .33 | 1.04 | .06 | .01 | 1.54 | 1.44 | 1.80 | .13 | | 25.0 | 311 | 109 | 0.8 | | |
| | | | | | 70 | 7 | 22 | 1 | | 31 | 29 | 37 | 3 | | | | | | | |
| | 29S/28E-20G02 | M | | | | | | | | | | | | | | | | | | |
| 4/17/74 | 5701 | 74 | F | | 75 | 6.0 | 27 | 2.2 | .2 | 85 | 79 | 82 | 1.0 | -- | .1 | 339 | 214 | | | |
| | 5701 | 23 | C | 7.5 | 572 3.74 | .49 | 1.17 | .06 | .01 | 1.39 | 1.64 | 2.31 | .02 | | 24.0 | 338 | 142 | 0.8 | | |
| | | | | | 68 | 9 | 21 | 1 | | 26 | 31 | 43 | | | | | | | | |
| | 29S/28E-20H01 | M | | | | | | | | | | | | | | | | | | |
| 3/20/74 | 5701 | 77 | F | | 19 | 1.0 | 19 | 1.2 | .8 | 79 | 12 | 9.0 | 6.0 | -- | .1 | 130 | 52 | | | E |
| | 5701 | 25 | C | 8.2 | 184 .95 | .08 | .83 | .03 | .03 | 1.29 | .25 | .25 | .10 | | 22.0 | 129 | 0 | 1.2 | | |
| | | | | | 50 | 4 | 44 | 2 | 2 | 67 | 13 | 13 | 5 | | | | | | | |
| | 29S/28E-20L01 | M | | | | | | | | | | | | | | | | | | |
| 1/16/74 | 5701 | 72 | F | | 54 | 2.0 | 23 | 2.1 | .3 | 87 | 50 | 52 | 3.0 | -- | .2 | 255 | 142 | | | |
| | 5701 | 22 | C | 7.7 | 433 2.69 | .16 | 1.00 | .05 | .01 | 1.43 | 1.04 | 1.47 | .05 | | 26.0 | 255 | 71 | 0.8 | | |
| | | | | | 69 | 4 | 26 | 1 | | 36 | 26 | 37 | 1 | | | | | | | |
| | 29S/28E-21C01 | M | | | | | | | | | | | | | | | | | | |
| 9/05/74 | 5701 | 79 | F | | 31 | 2.0 | 24 | 1.3 | .6 | 87 | 37 | 23 | .0 | -- | .1 | 182 | 87 | | | |
| | 5701 | 26 | C | 8.0 | 288 1.55 | .16 | 1.04 | .03 | .02 | 1.43 | .77 | .65 | .00 | | 20.0 | 182 | 13 | 1.1 | | |
| | | | | | 56 | 6 | 37 | 1 | 1 | 50 | 27 | 23 | | | | | | | | |
| | 29S/28E-21D01 | M | | | 38 | | | | | | | | | | | | | | | |
| 09/05/74 | 5701 | 78 | F | | | 3.0 | 20 | 1.5 | .4 | 82 | 30 | 38 | .0 | -- | .1 | 193 | 108 | | | |
| | 5701 | 26 | C | 7.9 | 330 9.63 | .25 | .87 | .04 | .01 | 1.34 | .62 | 1.07 | .00 | | 22.0 | 348 | 427 | 0.4 | | TC |
| | | | | | 89 | 2 | 8 | | | 44 | 20 | 35 | | | | | | | | 5 |
| | 29S/28E-21E01 | M | | | | | | | | | | | | | | | | | | |
| 02/14/74 | 5701 | 76 | F | | 21 | 2.0 | 19 | 1.2 | .4 | 85 | 16 | 13 | .0 | -- | .1 | 137 | 60 | | | |
| | 5701 | 24 | C | 7.8 | 212 1.05 | .16 | .83 | .03 | .01 | 1.39 | .33 | .37 | .00 | | 23.0 | 137 | 0 | 1.1 | | |
| | | | | | 51 | 8 | 40 | 1 | | 66 | 16 | 18 | | | | | | | | |
| | 29S/28E-21G01 | M | | | | | | | | | | | | | | | | | | |
| 05/08/74 | 5701 | 80 | F | | 22 | .0 | 25 | .9 | .8 | 57 | 25 | 29 | 1.0 | -- | .1 | 152 | 56 | | | |
| | 5701 | 27 | C | 8.3 | 250 1.10 | .00 | 1.09 | .02 | .03 | .93 | .52 | .82 | .02 | | 20.0 | 152 | 7 | 1.5 | | |
| | | | | | 50 | | 49 | 1 | 1 | 40 | 22 | 35 | 1 | | | | | | | |
| 06/12/74 | 5701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .18 | -- | | | | | |
| | 5701 | | | | | | | | | | | | | | -- | | | | | |
| | 29S/28E-21M01 | M | | | | | | | | | | | | | | | | | | |
| 01/16/74 | 5701 | 73 | F | | 30 | 1.0 | 19 | 1.3 | .3 | 82 | 26 | 21 | 4.0 | -- | .2 | 166 | 80 | | | |
| | 5701 | 23 | C | 7.7 | 257 1.50 | .08 | .83 | .03 | .01 | 1.34 | .54 | .59 | .06 | | 23.0 | 166 | 12 | 0.9 | | |
| | | | | | 61 | 3 | 34 | 1 | | 53 | 21 | 23 | 2 | | | | | | | |
| | 29S/28E-29Q01 | M | | | | | | | | | | | | | | | | | | |
| 01/16/74 | 5701 | 69 | F | | 31 | .0 | 20 | 1.8 | .4 | 102 | 19 | 18 | .0 | -- | .1 | 167 | 80 | | | |
| | 5701 | 21 | C | 7.8 | 250 1.55 | .00 | .87 | .05 | .01 | 1.67 | .40 | .51 | .00 | | 26.0 | 166 | 0 | 1.0 | | |
| | | | | | 63 | | 35 | 2 | | 64 | 15 | 20 | | | | | | | | |
| | 29S/28E-29L01 | M | | | | | | | | | | | | | | | | | | |
| 09/05/74 | 5701 | 72 | F | | 17 | .0 | 24 | .9 | .7 | 77 | 17 | 12 | .0 | -- | .1 | 127 | 42 | | | |
| | 5701 | 22 | C | 8.1 | 190 .85 | .00 | 1.04 | .02 | .02 | 1.26 | .35 | .34 | .00 | | 18.0 | 127 | 0 | 1.6 | | |
| | | | | | 45 | | 54 | 1 | 1 | 64 | 18 | 17 | | | | | | | | |
| | 29S/28E-29P01 | M | | | | | | | | | | | | | | | | | | |
| 08/12/74 | 5701 | 74 | F | | 14 | .0 | 34 | 1.0 | 1.6 | 75 | 29 | 13 | .0 | -- | .1 | 144 | 36 | | | |
| | 5701 | 23 | C | 8.5 | 231 .70 | .00 | 1.48 | .03 | .05 | 1.23 | .60 | .37 | .00 | | 13.0 | 142 | 0 | 2.5 | | |
| | | | | | 32 | | 67 | 1 | 2 | 55 | 27 | 16 | | | | | | | | |
| | 29S/28E-29Q01 | M | | | | | | | | | | | | | | | | | | |
| 06/12/74 | 5701 | 67 | F | | 14 | .0 | 52 | 1.2 | 1.5 | 112 | 32 | 18 | 1.0 | -- | .2 | 188 | 36 | | | |
| | 5701 | 19 | C | 8.3 | 314 .70 | .00 | 2.26 | .03 | .05 | 1.84 | .67 | .51 | .02 | | 13.0 | 188 | 0 | 3.8 | | |
| | | | | | 23 | | 76 | 1 | 2 | 60 | 22 | 17 | 1 | | | | | | | |
| | 29S/28E-30A01 | M | | | | | | | | | | | | | | | | | | |
| 05/08/74 | 5701 | 68 | F | | 16 | 7.0 | 17 | 1.6 | .4 | 97 | 14 | 10 | .0 | -- | .2 | 135 | 68 | | | |
| | 5701 | 20 | C | 7.8 | 210 .80 | .58 | .74 | .04 | .01 | 1.59 | .29 | .28 | .00 | | 22.0 | 136 | 0 | 0.9 | | |
| | | | | | 37 | 27 | 34 | 2 | | 73 | 13 | 13 | | | | | | | | |
| | 29S/28E-30F02 | M | | | | | | | | | | | | | | | | | | |
| 06/12/74 | 5701 | 67 | F | | 38 | 3.0 | 23 | 2.0 | .2 | 122 | 27 | 16 | 3.0 | -- | .1 | 197 | 106 | | | |
| | 5701 | 19 | C | 7.4 | 302 1.90 | .25 | 1.00 | .05 | .01 | 2.00 | .56 | .45 | .05 | | 25.0 | 197 | 7 | 1.0 | | |
| | | | | | 59 | 8 | 31 | 2 | | 65 | 18 | 15 | 2 | | | | | | | |
| | 29S/28E-30G01 | M | | | | | | | | | | | | | | | | | | |
| 04/17/74 | 5701 | 68 | F | | 37 | 6.0 | 22 | 2.6 | .5 | 133 | 33 | 16 | 7.0 | -- | .1 | 218 | 116 | | | |
| | 5701 | 20 | C | 7.8 | 328 1.85 | .49 | .96 | .07 | .02 | 2.18 | .69 | .45 | .11 | | 29.0 | 218 | 7 | 0.9 | | |
| | | | | | 55 | 15 | 28 | 2 | 1 | 63 | 20 | 13 | 3 | | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| DATE TIME | SAMPLER LAB | TEMP | FIELD LABORATORY PH | FIELD LABORATORY EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | MILLIGRAMS PER LITER B | F | SIO2 | TDS SUM | TH NCM | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | |
| | 295/28E-30H02 | M | | | | | | | | | | | | | | | | | |
| 04/17/74 | 5701 | 68 | F | | 23 | 3.0 | 17 | 2.1 | .2 | 87 | 18 | 12 | 6.0 | -- | .2 | | 152 | 70 | |
| | 5701 | 20 | C | 7.6 | 215 1.15 | .25 | .74 | .05 | .01 | 1.43 | .37 | .34 | .10 | | 28.0 | | 152 | 0 | 0.9 |
| | | | | | 53 | 11 | 34 | 2 | | 64 | 16 | 15 | 4 | | | | | | |
| | 295/28E-30D02 | M | | | | | | | | | | | | | | | | | |
| 08/12/74 | 5701 | 68 | F | | 33 | 5.0 | 21 | 2.2 | .3 | 124 | 24 | 15 | 2.0 | -- | .1 | | 189 | 102 | |
| | 5701 | 20 | C | 7.5 | 295 1.65 | .41 | .91 | .06 | .01 | 2.03 | .50 | .42 | .03 | | 26.0 | | 189 | 1 | 0.9 |
| | | | | | 54 | 14 | 30 | 2 | | 68 | 17 | 14 | 1 | | | | | | |
| | 295/28E-30D04 | M | | | | | | | | | | | | | | | | | |
| 08/12/74 | 5701 | 68 | F | | 33 | 4.0 | 20 | 2.3 | .2 | 119 | 26 | 13 | 7.0 | -- | .1 | | 194 | 100 | |
| | 5701 | 20 | C | 7.4 | 291 1.65 | .33 | .87 | .06 | .01 | 1.95 | .54 | .37 | .11 | | 30.0 | | 194 | 1 | 0.9 |
| | | | | | 57 | 11 | 30 | 2 | | 65 | 18 | 12 | 4 | | | | | | |
| | 295/28E-31B02 | M | | | | | | | | | | | | | | | | | |
| 06/12/74 | 5701 | 68 | F | | 33 | 3.0 | 22 | 2.0 | .3 | 124 | 21 | 15 | 2.0 | -- | .1 | | 185 | 96 | |
| | 5701 | 20 | C | 7.5 | 289 1.65 | .25 | .96 | .05 | .01 | 2.03 | .44 | .42 | .03 | | 25.0 | | 184 | 0 | 1.0 |
| | | | | | 57 | 9 | 33 | 2 | | 69 | 15 | 14 | 1 | | | | | | |
| | 295/28E-31B04 | M | | | | | | | | | | | | | | | | | |
| 04/17/74 | 5701 | 67 | F | | 35 | 1.0 | 21 | 2.2 | 1.0 | 120 | 22 | 14 | 3.0 | -- | .1 | | 184 | 94 | |
| | 5701 | 19 | C | 8.1 | 282 1.75 | .08 | .91 | .06 | .03 | 1.97 | .46 | .39 | .05 | | 24.0 | | 182 | 0 | 1.0 |
| | | | | | 63 | 3 | 33 | 2 | 1 | 68 | 16 | 13 | 2 | | | | | | |
| 05/08/74 | 5701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .17 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | -- | | | | |
| | 295/28E-31B05 | M | | | | | | | | | | | | | | | | | |
| 01/16/74 | 5701 | 68 | F | | 19 | 1.0 | 25 | 1.6 | .7 | 96 | 15 | 12 | 2.0 | -- | .2 | | 145 | 54 | |
| | 5701 | 20 | C | 8.0 | 224 .95 | .08 | 1.09 | .04 | .02 | 1.57 | .31 | .34 | .03 | | 21.0 | | 145 | 0 | 1.5 |
| | | | | | 44 | 4 | 50 | 2 | 1 | 69 | 14 | 15 | 1 | | | | | | |
| | 295/28E-31E02 | M | | | | | | | | | | | | | | | | | |
| 02/14/74 | 5701 | 67 | F | | 40 | 4.0 | 22 | 2.5 | .1 | 131 | 27 | 23 | 4.0 | -- | .2 | | 215 | 118 | |
| | 5701 | 19 | C | 7.2 | 341 2.00 | .33 | .96 | .06 | .00 | 2.15 | .56 | .65 | .06 | | 27.0 | | 214 | 9 | 0.9 |
| | | | | | 60 | 10 | 29 | 2 | | 63 | 16 | 19 | 2 | | | | | | |
| | 295/28E-31J02 | M | | | | | | | | | | | | | | | | | |
| 01/16/74 | 5701 | 67 | F | | 25 | 1.0 | 26 | 2.1 | .3 | 104 | 18 | 15 | 2.0 | -- | .2 | | 163 | 68 | |
| | 5701 | 19 | C | 7.7 | 252 1.25 | .08 | 1.13 | .05 | .01 | 1.70 | .37 | .42 | .03 | | 21.0 | | 162 | 0 | 1.4 |
| | | | | | 50 | 3 | 45 | 2 | | 67 | 15 | 17 | 1 | | | | | | |
| | 295/28E-31K02 | M | | | | | | | | | | | | | | | | | |
| 06/12/74 | 5701 | 68 | F | | 33 | 6.0 | 24 | 2.2 | .1 | 127 | 28 | 16 | 6.0 | -- | .1 | | 202 | 106 | |
| | 5701 | 20 | C | 7.2 | 310 1.65 | .49 | 1.04 | .06 | .00 | 2.08 | .58 | .45 | .10 | | 25.0 | | 203 | 3 | 1.0 |
| | | | | | 51 | 15 | 32 | 2 | | 65 | 18 | 14 | 3 | | | | | | |
| | 295/28E-31O03 | M | | | | | | | | | | | | | | | | | |
| 04/17/74 | 5701 | 68 | F | | 52 | 5.0 | 28 | 3.1 | .3 | 156 | 37 | 32 | 8.0 | -- | .2 | | 270 | 152 | |
| | 5701 | 20 | C | 7.4 | 418 2.59 | .41 | 1.22 | .08 | .01 | 2.56 | .77 | .90 | .13 | | 27.0 | | 269 | 22 | 1.0 |
| | | | | | 60 | 10 | 28 | 2 | | 59 | 18 | 21 | 3 | | | | | | |
| | 295/28E-32O01 | M | | | | | | | | | | | | | | | | | |
| 09/05/74 | 5701 | 72 | F | | 70 | 6.0 | 56 | 2.9 | .7 | 96 | 169 | 48 | 6.0 | -- | .1 | | 421 | 200 | |
| | 5701 | 22 | C | 8.0 | 646 3.49 | .49 | 2.44 | .07 | .02 | 1.57 | 3.52 | 1.35 | .10 | | 15.0 | | 421 | 120 | 1.7 |
| | | | | | 54 | 8 | 38 | 1 | | 24 | 54 | 21 | 2 | | | | | | |
| | 295/28E-32L01 | M | | | | | | | | | | | | | | | | | |
| 08/14/74 | 5701 | 72 | F | | 98 | 9.0 | 42 | 4.0 | .5 | 79 | 184 | 73 | 15.0 | -- | .1 | | 483 | 280 | |
| | 5701 | 22 | C | 8.0 | 774 4.89 | .74 | 1.83 | .10 | .02 | 1.29 | 3.83 | 2.06 | .24 | | 19.0 | | 483 | 216 | 1.1 |
| | | | | | 65 | 10 | 24 | 1 | | 17 | 51 | 28 | 3 | | | | | | |
| | 295/28E-32N01 | M | | | | | | | | | | | | | | | | | |
| 03/20/74 | 5701 | 70 | F | | 34 | 3.0 | 24 | 2.5 | .6 | 94 | 37 | 27 | 3.0 | -- | .2 | | 200 | 96 | |
| | 5701 | 21 | C | 8.0 | 318 1.70 | .25 | 1.04 | .06 | .02 | 1.54 | .77 | .76 | .05 | | 23.0 | | 200 | 20 | 1.1 |
| | | | | | 56 | 8 | 34 | 2 | 1 | 49 | 25 | 24 | 2 | | | | | | |
| | 295/28E-32R01 | M | | | | | | | | | | | | | | | | | |
| 03/20/74 | 5701 | 72 | F | | 97 | 9.0 | 57 | 4.6 | .5 | 114 | 150 | 96 | 26.0 | -- | .1 | | 518 | 280 | |
| | 5701 | 22 | C | 7.8 | 816 4.84 | .74 | 2.48 | .12 | .02 | 1.87 | 3.12 | 2.71 | .42 | | 22.0 | | 518 | 185 | 1.5 |
| | | | | | 59 | 9 | 30 | 1 | | 23 | 38 | 33 | 5 | | | | | | |
| | 295/28E-32R02 | M | | | | | | | | | | | | | | | | | |
| 02/14/74 | 5701 | 72 | F | | 124 | 5.0 | 63 | 4.9 | .2 | 119 | 217 | 97 | 25.0 | -- | .1 | | 620 | 337 | |
| | 5701 | 22 | C | 7.4 | 971 6.19 | .41 | 2.74 | .13 | .01 | 1.95 | 4.52 | 2.74 | .40 | | 24.0 | | 619 | 232 | 1.5 |
| | | | | | 65 | 4 | 29 | 1 | | 20 | 47 | 28 | 4 | | | | | | |
| | 295/28E-34J01 | M | | | | | | | | | | | | | | | | | |
| 05/08/74 | 5701 | 78 | F | | 282 | 1.0 | 206 | 9.0 | .2 | 61 | 666 | 280 | 55.0 | -- | .1 | | 1546 | 708 | |
| | 5701 | 26 | C | 7.6 | 2448 14.07 | .08 | 8.96 | .23 | .01 | 1.00 | 13.87 | 7.90 | .89 | | 17.0 | | 1546 | 658 | 3.4 |
| | | | | | 60 | | 38 | 1 | | 4 | 59 | 33 | 4 | | | | | | |
| | 295/28E-35E03 | M | | | | | | | | | | | | | | | | | |
| 04/17/74 | 5701 | 78 | F | | 58 | 2.0 | 91 | 4.7 | .8 | 111 | 136 | 85 | 13.0 | -- | .1 | | 462 | 154 | |
| | 5701 | 26 | C | 8.0 | 758 2.89 | .16 | 3.96 | .12 | .03 | 1.82 | 2.83 | 2.40 | .21 | | 18.0 | | 463 | 60 | 3.2 |
| | | | | | 41 | 2 | 56 | 2 | | 25 | 39 | 33 | 3 | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| TE ME | SAMPLER LAB | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | MILLIGRAMS PER LITER: B | F / SIO2 | TDS SUM | TH NCM | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CENTRAL-VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | | | |
| | 305/27E-01B02 | M | | | | | | | | | | | | | | | | | |
| 08/74 | 5701 | 67 | F | | 16 | 4.0 | 20 | 2.0 | .3 | 94 | 12 | 9.0 | 1.0 | -- | .1 | 132 | 56 | | |
| | 5701 | 19 | C | 7.7 204 | .80 | .33 | .87 | .05 | .01 | 1.54 | .25 | .25 | .02 | | 21.0 | 132 | 0 | 1.2 | |
| | | | | | 39 | 16 | 42 | 2 | | 74 | 12 | 12 | 1 | | | | | | |
| | 305/27E-01G02 | M | | | | | | | | | | | | | | | | | |
| 12/74 | 5701 | 68 | F | | 68 | 10 | 44 | 3.2 | .3 | 207 | 62 | 36 | 39.0 | -- | .1 | 393 | 212 | | |
| | 5701 | 20 | C | 7.3 613 | 3.39 | .82 | 1.91 | .08 | .01 | 3.39 | 1.29 | 1.02 | .63 | | 28.0 | 392 | 41 | 1.3 | |
| | | | | | 55 | 13 | 31 | 1 | | 53 | 20 | 16 | 10 | | | | | | |
| | 305/27E-01J01 | M | | | | | | | | | | | | | | | | | |
| 17/74 | 5701 | 68 | F | | 30 | .0 | 23 | 2.4 | .4 | 116 | 18 | 11 | 3.0 | -- | .2 | 165 | 76 | | |
| | 5701 | 20 | C | 7.7 256 | 1.50 | .00 | 1.00 | .06 | .01 | 1.90 | .37 | .31 | .05 | | 20.0 | 165 | 0 | 1.2 | |
| | | | | | 59 | | 39 | 2 | | 72 | 14 | 12 | 2 | | | | | | |
| | 305/27E-01K01 | M | | | | | | | | | | | | | | | | | |
| 17/74 | 5701 | 67 | F | | 39 | 3.0 | 32 | 3.0 | .2 | 146 | 30 | 20 | 10.0 | -- | .1 | 232 | 112 | | |
| | 5701 | 19 | C | 7.4 361 | 1.95 | .25 | 1.39 | .08 | .01 | 2.39 | .62 | .56 | .16 | | 23.0 | 232 | 0 | 1.3 | |
| | | | | | 53 | 7 | 38 | 2 | | 64 | 17 | 15 | 4 | | | | | | |
| 17/74 | 5701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .25 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | -- | | | | |
| | 305/27E-01M01 | M | | | | | | | | | | | | | | | | | |
| 17/74 | 5701 | 68 | F | | 26 | 5.0 | 18 | 1.9 | .5 | 111 | 15 | 11 | 5.0 | -- | .2 | 161 | 84 | | |
| | 5701 | 20 | C | 7.8 242 | 1.30 | .41 | .78 | .05 | .02 | 1.82 | .31 | .31 | .08 | | 24.0 | 161 | 0 | 0.8 | |
| | | | | | 51 | 16 | 31 | 2 | 1 | 72 | 12 | 12 | 3 | | | | | | |
| | 305/27E-02A01 | M | | | | | | | | | | | | | | | | | |
| 5/08/74 | 5701 | 66 | F | | 34 | 3.0 | 18 | 2.4 | .2 | 119 | 19 | 13 | 7.0 | -- | .2 | 179 | 98 | | |
| | 5701 | 19 | C | 7.4 289 | 1.70 | .25 | .78 | .06 | .01 | 1.95 | .40 | .37 | .11 | | 24.0 | 179 | 0 | 0.8 | |
| | | | | | 61 | 9 | 28 | 2 | | 69 | 14 | 13 | 4 | | | | | | |
| | 305/27E-02A02 | M | | | | | | | | | | | | | | | | | |
| 3/20/74 | 5701 | 66 | F | | 30 | 3.0 | 21 | 2.2 | .4 | 121 | 15 | 13 | 4.0 | -- | .2 | 173 | 90 | | |
| | 5701 | 19 | C | 7.7 264 | 1.50 | .25 | .91 | .06 | .01 | 1.98 | .31 | .37 | .06 | | 24.0 | 172 | 0 | 1.0 | |
| | | | | | 55 | 9 | 33 | 2 | | 73 | 11 | 14 | 2 | | | | | | |
| | 305/27E-02F01 | M | | | | | | | | | | | | | | | | | |
| 3/20/74 | 5701 | 66 | F | | 34 | 5.0 | 23 | 2.3 | .2 | 119 | 19 | 25 | 7.0 | -- | .2 | 198 | 104 | | |
| | 5701 | 19 | C | 7.4 304 | 1.70 | .41 | 1.00 | .06 | .01 | 1.95 | .40 | .71 | .11 | | 25.0 | 199 | 8 | 1.0 | |
| | | | | | 54 | 13 | 32 | 2 | | 61 | 13 | 22 | 3 | | | | | | |
| | 305/27E-02H01 | M | | | | | | | | | | | | | | | | | |
| 9/05/74 | 5701 | 66 | F | | 35 | 6.0 | 28 | 2.2 | .2 | 136 | 24 | 16 | 13.0 | -- | .1 | 215 | 112 | | |
| | 5701 | 19 | C | 7.4 332 | 1.75 | .49 | 1.22 | .06 | .01 | 2.23 | .50 | .45 | .21 | | 24.0 | 215 | 0 | 1.2 | |
| | | | | | 50 | 14 | 35 | 2 | | 66 | 15 | 13 | 6 | | | | | | |
| | 305/27E-02R01 | M | | | | | | | | | | | | | | | | | |
| 3/20/74 | 5701 | 67 | F | | 18 | 1.0 | 20 | 1.8 | .6 | 91 | 10 | 8.0 | 3.0 | -- | .2 | 128 | 52 | | |
| | 5701 | 19 | C | 8.0 186 | .90 | .08 | .87 | .00 | .02 | 1.49 | .21 | .23 | .05 | | 20.0 | 125 | 0 | 1.2 | S |
| | | | | | 49 | 4 | 47 | | 1 | 75 | 11 | 12 | 3 | | | | | | |
| | 305/27E-11G02 | M | | | | | | | | | | | | | | | | | |
| 6/12/74 | 5701 | 66 | F | | 26 | 3.0 | 19 | 2.1 | .3 | 109 | 17 | 11 | 3.0 | -- | .2 | 156 | 78 | | |
| | 5701 | 19 | C | 7.6 237 | 1.30 | .25 | .83 | .05 | .01 | 1.79 | .35 | .31 | .05 | | 22.0 | 157 | 0 | 0.9 | |
| | | | | | 53 | 10 | 34 | 2 | | 71 | 14 | 12 | 2 | | | | | | |
| | 305/27E-11G01 | M | | | | | | | | | | | | | | | | | |
| 3/20/74 | 5701 | 66 | F | | 31 | 5.0 | 21 | 2.0 | .4 | 128 | 21 | 13 | 4.0 | -- | .2 | 187 | 100 | | |
| | 5701 | 19 | C | 7.7 286 | 1.55 | .41 | .91 | .05 | .01 | 2.10 | .44 | .37 | .06 | | 26.0 | 186 | 0 | 0.9 | |
| | | | | | 53 | 14 | 31 | 2 | | 70 | 15 | 12 | 2 | | | | | | |
| | 305/27E-11M02 | M | | | | | | | | | | | | | | | | | |
| 4/25/74 | 5701 | 64 | F | | 33 | 1.0 | 20 | 2.1 | .3 | 114 | 20 | 13 | 4.0 | -- | .1 | 174 | 86 | | |
| | 5701 | 18 | C | 7.7 264 | 1.65 | .08 | .87 | .05 | .01 | 1.87 | .42 | .37 | .06 | | 25.0 | 174 | 0 | 0.9 | |
| | | | | | 62 | 3 | 33 | 2 | | 68 | 15 | 14 | 2 | | | | | | |
| | 305/27E-12C01 | M | | | | | | | | | | | | | | | | | |
| 9/05/74 | 5701 | 66 | F | | 46 | 9.0 | 32 | 2.8 | .1 | 171 | 42 | 22 | 15.0 | -- | .1 | 280 | 152 | | |
| | 5701 | 19 | C | 7.1 452 | 2.30 | .74 | 1.39 | .07 | .00 | 2.80 | .87 | .62 | .24 | | 28.0 | 281 | 12 | 1.1 | |
| | | | | | 51 | 16 | 31 | 2 | | 62 | 19 | 14 | 5 | | | | | | |
| | 305/27E-12L02 | M | | | | | | | | | | | | | | | | | |
| 5/08/74 | 5701 | 68 | F | | 48 | 6.0 | 25 | 2.9 | .3 | 165 | 34 | 19 | 7.0 | -- | .2 | 252 | 144 | | |
| | 5701 | 20 | C | 7.4 406 | 2.40 | .49 | 1.09 | .07 | .01 | 2.70 | .71 | .54 | .11 | | 28.0 | 251 | 9 | 0.9 | |
| | | | | | 59 | 12 | 27 | 2 | | 66 | 17 | 13 | 3 | | | | | | |
| 6/12/74 | 5701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .40 | -- | | | | |
| | 5701 | | | | | | | | | | | | | | -- | | | | |
| | 305/27E-12R01 | M | | | | | | | | | | | | | | | | | |
| 9/05/74 | 5701 | 68 | F | | 27 | 4.0 | 19 | 1.9 | .2 | 105 | 20 | 13 | 5.0 | -- | .2 | 169 | 85 | | |
| | 5701 | 20 | C | 7.4 260 | 1.35 | .33 | .83 | .05 | .01 | 1.72 | .42 | .37 | .08 | | 27.0 | 169 | 0 | 0.9 | |
| | | | | | 53 | 13 | 32 | 2 | | 66 | 16 | 14 | 3 | | | | | | |
| | 305/27E-13H01 | M | | | | | | | | | | | | | | | | | |
| 3/20/74 | 5701 | 67 | F | | 32 | 5.0 | 21 | 1.9 | .5 | 126 | 21 | 12 | 4.0 | -- | .2 | 184 | 100 | | |
| | 5701 | 19 | C | 7.8 285 | 1.60 | .41 | .91 | .05 | .02 | 2.07 | .44 | .34 | .06 | | 25.0 | 184 | 0 | 0.9 | |
| | | | | | 54 | 14 | 31 | 2 | 1 | 71 | 15 | 12 | 2 | | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| DATE TIME | SAMPLER LAB | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | B | F SIO2 | TDS SUM | TM NCM | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | | |
| | 30S/27F-13H02 | M | | | | | | | | | | | | | | | | | |
| 01/16/74 | S701 | 66 | F | | 35 | 2.0 | 18 | 2.4 | .4 | 126 | 18 | 11 | 4.0 | -- | .2 | 178 | 96 | | |
| | S701 | 19 | C | 7.7 | 277 | 1.75 | .16 | .78 | .06 | .01 | 2.07 | .37 | .31 | .06 | | 24.0 | 177 | 0 | 0.8 |
| | | | | | 64 | 6 | 28 | 2 | | | 73 | 13 | 11 | 2 | | | | | |
| | 30S/27E-23C02 | M | | | | | | | | | | | | | | | | | |
| 06/12/74 | S701 | 64 | F | | 36 | 6.0 | 20 | 2.3 | .5 | 136 | 27 | 15 | 7.0 | -- | .2 | 203 | 116 | | |
| | S701 | 18 | C | 7.7 | 318 | 1.80 | .49 | .87 | .06 | .02 | 2.23 | .56 | .42 | .11 | | 22.0 | 203 | 2 | 0.8 |
| | | | | | 56 | 15 | 27 | 2 | | 1 | 67 | 17 | 13 | 3 | | | | | |
| | 30S/27E-23C03 | M | | | | | | | | | | | | | | | | | |
| 06/12/74 | S701 | 64 | F | | 36 | 5.0 | 20 | 2.4 | .5 | 133 | 27 | 14 | 6.0 | -- | .2 | 196 | 110 | | |
| | S701 | 18 | C | 7.7 | 314 | 1.80 | .41 | .87 | .06 | .02 | 2.18 | .56 | .39 | .10 | | 20.0 | 196 | 1 | 0.8 |
| | | | | | 57 | 13 | 28 | 2 | | 1 | 67 | 17 | 12 | 3 | | | | | |
| 09/09/74 | S701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .16 | -- | | | | |
| | S701 | | | | | | | | | | | | | | -- | | | | |
| | 30S/27E-23C04 | M | | | | | | | | | | | | | | | | | |
| 03/20/74 | S701 | 64 | F | | 39 | 3.0 | 21 | 2.0 | .6 | 133 | 26 | 14 | 1.0 | -- | .2 | 196 | 110 | | |
| | S701 | 18 | C | 7.8 | 305 | 1.95 | .25 | .91 | .05 | .02 | 2.18 | .54 | .39 | .02 | | 24.0 | 196 | 0 | 0.9 |
| | | | | | 62 | 8 | 29 | 2 | | 1 | 69 | 17 | 12 | 1 | | | | | |
| | 30S/27E-23D01 | M | | | | | | | | | | | | | | | | | |
| 05/08/74 | S701 | 66 | F | | 43 | 2.0 | 20 | 2.4 | .4 | 138 | 28 | 15 | 5.0 | -- | .2 | 209 | 116 | | |
| | S701 | 19 | C | 7.6 | 333 | 2.15 | .16 | .87 | .06 | .01 | 2.26 | .58 | .42 | .08 | | 25.0 | 209 | 2 | 0.8 |
| | | | | | 66 | 5 | 27 | 2 | | | 67 | 17 | 13 | 2 | | | | | |
| | 30S/27E-23D02 | M | | | | | | | | | | | | | | | | | |
| 06/12/74 | S701 | 64 | F | | 36 | 5.0 | 19 | 2.2 | .4 | 134 | 26 | 14 | 6.0 | -- | .2 | 197 | 112 | | |
| | S701 | 18 | C | 7.6 | 309 | 1.80 | .41 | .83 | .06 | .01 | 2.20 | .54 | .39 | .10 | | 22.0 | 196 | 0 | 0.8 |
| | | | | | 58 | 13 | 27 | 2 | | | 68 | 17 | 12 | 3 | | | | | |
| | 30S/28E-05R01 | M | | | | | | | | | | | | | | | | | |
| 02/14/74 | S701 | 68 | F | | 39 | 3.0 | 29 | 2.8 | .2 | 129 | 38 | 20 | 8.0 | -- | .2 | 225 | 110 | | |
| | S701 | 20 | C | 7.3 | 358 | 1.95 | .25 | 1.26 | .07 | .01 | 2.11 | .79 | .56 | .13 | | 21.0 | 224 | 4 | 1.2 |
| | | | | | 55 | 7 | 36 | 2 | | | 59 | 22 | 16 | 4 | | | | | |
| | 30S/28E-05C01 | M | | | | | | | | | | | | | | | | | |
| 06/12/74 | S701 | 68 | F | | 62 | 9.0 | 32 | 2.6 | .7 | 172 | 48 | 45 | 18.0 | -- | .1 | 326 | 192 | | |
| | S701 | 20 | C | 7.8 | 526 | 3.09 | .74 | 1.39 | .07 | .02 | 2.82 | 1.00 | 1.27 | .29 | | 24.0 | 326 | 50 | 1.0 |
| | | | | | 58 | 14 | 26 | 1 | | | 52 | 19 | 24 | 5 | | | | | |
| 08/13/74 | S701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .31 | -- | | | | |
| | S701 | | | | | | | | | | | | | | -- | | | | |
| | 30S/28E-05E01 | M | | | | | | | | | | | | | | | | | |
| 01/16/74 | S701 | 67 | F | | 50 | 3.0 | 25 | 3.1 | .2 | 139 | 33 | 32 | 6.0 | -- | .1 | 245 | 140 | | |
| | S701 | 19 | C | 7.4 | 405 | 2.50 | .25 | 1.09 | .08 | .01 | 2.28 | .69 | .90 | .10 | | 24.0 | 245 | 23 | 0.9 |
| | | | | | 64 | 6 | 28 | 2 | | | 57 | 17 | 23 | 3 | | | | | |
| | 30S/28E-05F01 | M | | | | | | | | | | | | | | | | | |
| 02/14/74 | S701 | 56 | F | | 38 | 3.0 | 28 | 2.7 | .2 | 131 | 28 | 23 | 9.0 | -- | .2 | 217 | 108 | | |
| | S701 | 13 | C | 7.4 | 351 | 1.90 | .25 | 1.22 | .07 | .01 | 2.15 | .58 | .65 | .15 | | 21.0 | 217 | 0 | 1.2 |
| | | | | | 55 | 7 | 35 | 2 | | | 61 | 16 | 18 | 4 | | | | | |
| | 30S/28E-05K01 | M | | | | | | | | | | | | | | | | | |
| 02/14/74 | S701 | 68 | F | | 70 | 7.0 | 37 | 3.3 | .2 | 146 | 46 | 74 | 23.0 | -- | .1 | 359 | 206 | | |
| | S701 | 20 | C | 7.2 | 607 | 3.49 | .58 | 1.61 | .08 | .01 | 2.39 | .96 | 2.09 | .37 | | 26.0 | 358 | 84 | 1.1 |
| | | | | | 61 | 10 | 28 | 1 | | | 41 | 16 | 36 | 6 | | | | | |
| | 30S/28E-05N01 | M | | | | | | | | | | | | | | | | | |
| 02/14/74 | S701 | 68 | F | | 18 | 1.0 | 30 | 2.3 | .3 | 104 | 13 | 11 | 3.0 | -- | .2 | 149 | 50 | | |
| | S701 | 20 | C | 7.7 | 231 | .90 | .08 | 1.31 | .06 | .01 | 1.70 | .27 | .31 | .05 | | 18.0 | 148 | 0 | 1.9 |
| | | | | | 38 | 3 | 56 | 3 | | | 73 | 12 | 13 | 2 | | | | | |
| | 30S/28E-06C02 | M | | | | | | | | | | | | | | | | | |
| 05/08/74 | S701 | 68 | F | | 42 | 6.0 | 27 | 2.9 | .2 | 151 | 34 | 19 | 10.0 | -- | .1 | 240 | 128 | | |
| | S701 | 20 | C | 7.2 | 388 | 2.10 | .49 | 1.17 | .07 | .01 | 2.47 | .71 | .54 | .16 | | 26.0 | 241 | 6 | 1.0 |
| | | | | | 55 | 13 | 31 | 2 | | | 63 | 18 | 14 | 4 | | | | | |
| | 30S/28E-06C03 | M | | | | | | | | | | | | | | | | | |
| 04/17/74 | S701 | 67 | F | | 45 | 4.0 | 26 | 2.7 | .1 | 139 | 26 | 36 | 4.0 | -- | .2 | 240 | 130 | | |
| | S701 | 19 | C | 7.2 | 385 | 2.25 | .33 | 1.13 | .07 | .00 | 2.28 | .54 | 1.02 | .06 | | 27.0 | 239 | 15 | 1.0 |
| | | | | | 60 | 9 | 30 | 2 | | | 58 | 14 | 26 | 2 | | | | | |
| 09/09/74 | S701 | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | .16 | -- | | | | |
| | | | | | | | | | | | | | | | -- | | | | |
| | 30S/28E-06G02 | M | | | | | | | | | | | | | | | | | |
| 08/12/74 | S701 | 66 | F | | 46 | 9.0 | 25 | 2.7 | .3 | 156 | 41 | 25 | 7.0 | -- | .1 | 263 | 152 | | |
| | S701 | 19 | C | 7.5 | 413 | 2.30 | .74 | 1.09 | .07 | .01 | 2.56 | .85 | .71 | .11 | | 30.0 | 263 | 24 | 0.9 |
| | | | | | 55 | 18 | 26 | 2 | | | 60 | 20 | 17 | 3 | | | | | |
| | 30S/28E-06M01 | M | | | | | | | | | | | | | | | | | |
| 02/14/74 | S701 | 67 | F | | 34 | 3.0 | 23 | 2.4 | .1 | 124 | 25 | 18 | 7.0 | -- | .2 | 199 | 100 | | |
| | S701 | 19 | C | 7.2 | 315 | 1.70 | .25 | 1.00 | .06 | .00 | 2.03 | .52 | .51 | .11 | | 25.0 | 198 | 0 | 1.0 |
| | | | | | 56 | 8 | 33 | 2 | | | 64 | 16 | 16 | 3 | | | | | |

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

| E F | SAMPLER LAB | TEMP | FIELD LABORATORY PH | EC | MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA | MG | NA | K | CO3 | HCO3 | SO4 | CL | NO3 | MILLIGRAMS PER LITER: B | F | SIO2 | TDS SUM | TH NCH | SAR | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | | | | | |
| | 305/28E-07B01 | M | | | | | | | | | | | | | | | | | | |
| 12/74 | 5701 | 68 | F | | 37 | 6.0 | 21 | 2.0 | .4 | 136 | 26 | 16 | 9.0 | -- | .1 | 211 | 118 | | | |
| | 5701 | 20 | C | 7.6 | 324 | 1.85 | .49 | .91 | .05 | .01 | 2.23 | .54 | .45 | .15 | 26.0 | 210 | 5 | 0.8 | | |
| | | | | | | 56 | 15 | 28 | 2 | | 66 | 16 | 13 | 4 | | | | | | |
| | 305/28E-07C01 | M | | | | | | | | | | | | | | | | | | |
| 12/74 | 5701 | 68 | F | | 40 | 8.0 | 25 | 2.8 | .2 | 137 | 33 | 23 | 13.0 | -- | .1 | 240 | 132 | | | |
| | 5701 | 20 | C | 7.3 | 372 | 2.00 | .66 | 1.09 | .07 | .01 | 2.25 | .69 | .65 | .21 | 28.0 | 240 | 20 | 0.9 | | |
| | | | | | | 52 | 17 | 29 | 2 | | 59 | 18 | 17 | 6 | | | | | | |
| | 305/28E-07E01 | M | | | | | | | | | | | | | | | | | | |
| 20/74 | 5701 | 67 | F | | 32 | 3.0 | 20 | 2.3 | .3 | 117 | 19 | 13 | 4.0 | -- | .1 | 178 | 94 | | | |
| | 5701 | 19 | C | 7.5 | 268 | 1.60 | .25 | .87 | .06 | .01 | 1.92 | .40 | .37 | .06 | 26.0 | 177 | 0 | 0.9 | | |
| | | | | | | 58 | 9 | 31 | 2 | | 70 | 14 | 13 | 2 | | | | | | |
| | 305/28E-08B01 | M | | | | | | | | | | | | | | | | | | |
| 08/74 | 5701 | 70 | F | | 68 | 10 | 53 | 3.8 | .5 | 160 | 126 | 46 | 12.0 | -- | .1 | 423 | 212 | | | |
| | 5701 | 21 | C | 7.7 | 664 | 3.39 | .82 | 2.31 | .10 | .02 | 2.62 | 2.62 | 1.30 | .19 | 24.0 | 422 | 79 | 1.6 | | |
| | | | | | | 51 | 12 | 35 | 2 | | 39 | 39 | 19 | 3 | | | | | | |
| | 305/28E-08H02 | M | | | | | | | | | | | | | | | | | | |
| /14/74 | 5701 | 71 | F | | 29 | 3.0 | 32 | 2.8 | .1 | 117 | 24 | 20 | 10.0 | -- | .2 | 198 | 84 | | | |
| | 5701 | 22 | C | 7.0 | 314 | 1.45 | .25 | 1.39 | .07 | .00 | 1.92 | .50 | .56 | .16 | 19.0 | 197 | 0 | 1.5 | | |
| | | | | | | 46 | 8 | 44 | 2 | | 61 | 16 | 18 | 5 | | | | | | |
| | 305/28E-18B01 | M | | | | | | | | | | | | | | | | | | |
| /05/74 | 5701 | 70 | F | | 42 | 8.0 | 27 | 2.2 | .5 | 141 | 43 | 22 | 12.0 | -- | .2 | 249 | 137 | | | |
| | 5701 | 21 | C | 7.7 | 400 | 2.10 | .66 | 1.17 | .06 | .02 | 2.31 | .90 | .62 | .19 | 25.0 | 251 | 22 | 1.0 | | |
| | | | | | | 53 | 17 | 29 | 2 | | 57 | 22 | 15 | 5 | | | | | | |
| | 305/28E-18E01 | M | | | | | | | | | | | | | | | | | | |
| /20/74 | 5701 | 67 | F | | 36 | 4.0 | 21 | 1.8 | .5 | 136 | 22 | 13 | 1.0 | -- | .2 | 194 | 108 | | | |
| | 5701 | 19 | C | 7.7 | 301 | 1.80 | .33 | .91 | .05 | .02 | 2.23 | .46 | .37 | .02 | 27.0 | 193 | 0 | 0.9 | | |
| | | | | | | 58 | 11 | 29 | 2 | 1 | 72 | 15 | 12 | 1 | | | | | | |
| | 305/28E-18K01 | M | | | | | | | | | | | | | | | | | | |
| /08/74 | 5701 | 68 | F | | 42 | 7.0 | 25 | 2.4 | .3 | 143 | 39 | 21 | 7.0 | -- | .2 | 240 | 134 | | | |
| | 5701 | 20 | C | 7.6 | 386 | 2.10 | .58 | 1.09 | .06 | .01 | 2.34 | .81 | .59 | .11 | 26.0 | 240 | 17 | 0.9 | | |
| | | | | | | 55 | 15 | 28 | 2 | | 61 | 21 | 15 | 3 | | | | | | |

TABLE E-2

MINOR ELEMENT ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analyses of ground water by various agencies and laboratories. The code numbers listed below will identify the agency that collected the sample and the laboratory that conducted the analysis:

| | |
|---|---|
| 5050 | California Department of Water Resources |
| 5060 | California Department of Health |
| 5119 | Kern County Health Department |
| 5121 | Kern County Water Agency |
| 5123 | Tulare County Farm Advisor |
| 5200 | City of Fresno |
| 5205 | City of Delano |
| 5701 | California Water Service Company |
| 5702 | Individual Owner |
| 5720 | Bakeman Water Company |
| 5801 | Braun, Skaggs, Kevorkian and Simons Laboratory |
| 5802 | Twining Laboratory |
| 5806 | B. C. Laboratory |

Abbreviations

| | |
|---|---|
| D | Dissolved |
| T | Total |
| REM | Remarks |

TABLE E-2

MINOR ELEMENT ANALYSIS OF GROUND WATER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | CONSTITUENTS IN MILLIGRAMS PER LITER BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 075/10E-18R80 | | M | | | | | | | | |
| /06/74 | 5050 | | | | | -- | -- | -- | -- | -- | -- | |
| 1500 | 5050 | 130 | | | -- | -- | -- | 0.25 T | 0.32 T | -- | -- | |
| | | 155/22E-31A01 | | M | | | | | | | | |
| /11/74 | 5701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 291 | 8.1 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 | |
| | | 155/22E-32L01 | | M | | | | | | | | |
| /15/74 | 5701 | | | 69 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 161 | 8.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 | |
| /20/74 | 5701 | | | | | -- | 0.001 | 0.00 | 0.000 | 0.0012 | -- | |
| | 5701 | | | | 0.0000 | 0.000 | -- | -- | -- | 0.0000 | 0.00 | |
| | | 165/22E-05C01 | | M | | | | | | | | |
| /15/74 | 5701 | | | | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 244 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 165/22E-05C02 | | M | | | | | | | | |
| /06/74 | 5701 | | | 71 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 205 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.10 | |
| | | 165/22E-05E01 | | M | | | | | | | | |
| /11/74 | 5701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 248 | 8.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.04 | |
| | | 165/22E-05E02 | | M | | | | | | | | |
| /15/74 | 5701 | | | 69 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 147 | 8.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 | |
| | | 165/22E-05M01 | | M | | | | | | | | |
| /15/74 | 5701 | | | 69 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 294 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.05 | |
| | | 165/22E-06G01 | | M | | | | | | | | |
| /06/74 | 5701 | | | 70 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 304 | 7.9 | -- | -- | -- | 0.01 | 0.00 | -- | 0.02 | |
| | | 165/22E-06K01 | | M | | | | | | | | |
| /11/74 | 5701 | | | 69 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 201 | 8.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 | |
| | | 165/22E-06Q01 | | M | | | | | | | | |
| /15/74 | 5701 | | | 72 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 264 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 165/22E-07A01 | | M | | | | | | | | |
| /15/74 | 5701 | | | 70 F | | -- | 0.003 | 0.01 | 0.00 | 0.0000 | -- | |
| | 5701 | | 394 | 8.0 | 0.0000 | 0.000 | -- | 0.00 | 0.00 | -- | 0.02 | |
| | | 165/22E-07C02 | | M | | | | | | | | |
| /06/74 | 5701 | | | 71 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 140 | 8.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 | |
| | | 185/24E-27R02 | | M | | | | | | | | |
| /15/74 | 5701 | | | 65 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 186 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.12 | |
| | | 185/24E-35C02 | | M | | | | | | | | |
| /27/74 | 5701 | | | 66 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 410 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.04 | |
| | | 185/24E-35C03 | | M | | | | | | | | |
| /27/74 | 5701 | | | 66 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 422 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 | |
| /01/74 | 5701 | | | | | -- | 0.001 | 0.00 | 0.000 | 0.0008 | -- | |
| | 5701 | | | | 0.0027 | 0.000 | -- | -- | -- | 0.0018 | 0.02 | |
| | | 185/24E-35N01 | | M | | | | | | | | |
| /12/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 188 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.10 | |
| | | 185/24E-36C01 | | M | | | | | | | | |
| /12/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 175 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.05 | |

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 18S/24E-36E01 | | M | | | | | | | | |
| 06/12/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 234 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.08 | |
| | | 18S/24E-36K01 | | M | | | | | | | | |
| 09/24/74 | 5701 | | | 66 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 221 | 7.9 | -- | -- | -- | 0.14 | 0.00 | -- | 0.01 | |
| | | 18S/25E-14N01 | | M | | | | | | | | |
| 09/24/74 | 5701 | | | 65 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 228 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 | |
| | | 18S/25E-19N01 | | M | | | | | | | | |
| 09/24/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 190 | 8.2 | -- | -- | -- | 0.01 | 0.00 | -- | 0.02 | |
| | | 18S/25E-19Q01 | | M | | | | | | | | |
| 02/27/74 | 5701 | | | | | -- | 0.002 | 0.00 | 0.000 | 0.0005 | -- | |
| | 5701 | | | | 0.0018 | 0.000 | -- | -- | -- | 0.0018 | 0.00 | |
| 02/27/74 | 5701 | | | 65 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 181 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 18S/25E-20F01 | | M | | | | | | | | |
| 01/24/74 | 5701 | | | 64 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 283 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 | |
| | | 18S/25E-27N01 | | M | | | | | | | | |
| 01/31/74 | 5701 | | | 64 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 179 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.18 | |
| 03/01/74 | 5701 | | | | | -- | 0.000 | 0.40 | 0.000 | 0.0002 | -- | |
| | 5701 | | | | 0.0022 | 0.000 | -- | -- | -- | 0.0000 | 0.03 | |
| | | 18S/25E-27P01 | | M | | | | | | | | |
| 03/01/74 | 5701 | | | | | -- | 0.001 | 0.00 | 0.000 | 0.0003 | -- | |
| | 5701 | | | | 0.0036 | 0.000 | -- | -- | -- | 0.0015 | 0.08 | |
| 05/03/74 | 5701 | | | 64 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 176 | 7.8 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 18S/25E-28D01 | | M | | | | | | | | |
| 04/23/74 | 5701 | | | 63 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 182 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 18S/25E-28L01 | | M | | | | | | | | |
| 08/19/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 255 | 7.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 | |
| | | 18S/25E-29R01 | | M | | | | | | | | |
| 08/19/74 | 5701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 177 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 18S/25E-29C01 | | M | | | | | | | | |
| 04/23/74 | 5701 | | | 64 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 184 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 18S/25E-29R01 | | M | | | | | | | | |
| 04/23/74 | 5701 | | | 64 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 229 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 | |
| | | 18S/25E-30F01 | | M | | | | | | | | |
| 06/12/74 | 5701 | | | 65 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 175 | 7.8 | -- | -- | -- | 0.00 | 0.00 | -- | 0.05 | |
| | | 18S/25E-30H1 | | M | | | | | | | | |
| 09/24/74 | 5701 | | | 66 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 323 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 | |
| 09/24/74 | 5701 | 18S/25E-30H2 | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 328 | 7.7 | -- | -- | -- | 0.00 | 0.01 | -- | 0.09 | |
| | | 18S/25E-30N01 | | M | | | | | | | | |
| 08/19/74 | 5701 | | | | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 190 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 18S/25E-30R02 | | M | | | | | | | | |
| 05/15/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 270 | 7.8 | -- | -- | -- | 0.02 | 0.00 | -- | 0.04 | |
| 06/12/74 | 5701 | | | | | -- | 0.002 | 0.00 | 0.000 | 0.0000 | -- | |
| | 5701 | | | | 0.0029 | 0.000 | -- | -- | -- | 0.0022 | 0.00 | |

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | CONSTITUENTS IN MILLIGRAMS PER LITER BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 18S/25E-31R01 | | M | | | | | | | | |
| /23/74 | 5701 | | | 65 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 271 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 18S/25E-31R03 | | M | | | | | | | | |
| /24/74 | 5701 | | | | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 241 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.04 | |
| | | 18S/25E-31E01 | | M | | | | | | | | |
| /19/74 | 5701 | | | 68 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 226 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 18S/25E-31K01 | | M | | | | | | | | |
| /27/74 | 5701 | | | 63 F | | 0.00 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 241 | 7.8 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 | |
| | | 18S/25E-31R01 | | M | | | | | | | | |
| /15/74 | 5701 | | | 65 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 218 | 7.8 | -- | -- | -- | 0.00 | 0.00 | -- | 0.13 | |
| | | 18S/25E-32E01 | | M | | | | | | | | |
| /23/74 | 5701 | | | 65 F | | -- | -- | 0.02 | -- | -- | -- | |
| | 5701 | | 193 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 18S/25E-32E02 | | M | | | | | | | | |
| /01/74 | 5701 | | | | | -- | 0.001 | 0.00 | 0.000 | 0.0002 | -- | |
| | 5701 | | | | 0.0036 | 0.000 | -- | -- | -- | 0.0007 | 0.08 | |
| /23/74 | 5701 | | | 64 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 194 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 | |
| | | 18S/25E-32G01 | | M | | | | | | | | |
| /15/74 | 5701 | | | 66 F | | -- | -- | 0.06 | -- | -- | -- | |
| | 5701 | | 265 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.30 | |
| | | 18S/25E-32K01 | | M | | | | | | | | |
| /23/74 | 5701 | | | 65 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 233 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 | |
| | | 19S/24E-01G01 | | M | | | | | | | | |
| /19/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 346 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 19S/24E-01R01 | | M | | | | | | | | |
| /20/74 | 5701 | | | 62 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 434 | 7.6 | -- | -- | -- | 0.04 | 0.00 | -- | 0.03 | |
| | | 19S/24E-02H01 | | M | | | | | | | | |
| /15/73 | 5701 | | | | | 0.0 T | -- | -- | -- | -- | -- | |
| | 5701 | | | | -- | -- | -- | 0.02 T | 0.00 T | -- | -- | |
| /23/74 | 5701 | | | 65 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 293 | 7.8 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 19S/24E-02M02 | | M | | | | | | | | |
| /27/74 | 5701 | | | 66 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 283 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 19S/24E-02K01 | | M | | | | | | | | |
| /24/74 | 5701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 150 | 8.0 | -- | -- | -- | 0.01 | 0.00 | -- | 0.18 | |
| | | 19S/25E-06E01 | | M | | | | | | | | |
| /24/74 | 5701 | | | 66 F | | 0.0 | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 172 | 8.1 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 | |
| | | 19S/25E-06M01 | | M | | | | | | | | |
| /23/74 | 5701 | | | 64 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 291 | 7.9 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 | |
| | | 19S/25E-07A01 | | M | | | | | | | | |
| /24/74 | 5701 | | | 65 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 266 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.05 | |
| /19/74 | 5701 | | | | | 0.06 | 0.001 | 0.00 | 0.00 | 0.0002 | -- | |
| | 5701 | | | | 0.001 | 0.001 | -- | -- | -- | 0.010 | 0.00 | |

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | | BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | | LEAD MANGANESE | | MERCURY SELENIUM | SILVER ZINC | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | | | | |
| | | 21S/15E-12Q01 | | M | | | | | | | | | | | |
| 08/02/74 | 5050 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 1025 | 5050 | | | 7.7 | 0.00 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/16E-35A01 | | M | | | | | | | | | | | |
| 08/01/74 | 5050 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 1230 | 5050 | | | 8.0 | 0.00 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/17E-14H01 | | M | | | | | | | | | | | |
| 07/00/74 | 5050 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 1250 | 5050 | | | 7.9 | 0.00 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/18E-12D02 | | M | | | | | | | | | | | |
| 07/30/74 | 5050 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 0905 | 5050 | | | 8.3 | 0.00 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/19E-19D01 | | M | | | | | | | | | | | |
| 07/29/74 | 5050 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 1310 | 5050 | | | 8.0 | 0.00 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/21E-26D01 | | M | | | | | | | | | | | |
| 07/26/74 | 5050 | | | 29.0C | | | -- | -- | -- | | -- | | -- | -- | |
| 1000 | 5050 | | 1900 | 7.3 | 0.01 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/23E-18N01 | | M | | | | | | | | | | | |
| 07/26/74 | 5050 | | | 25.0C | | | -- | -- | -- | | -- | | -- | -- | |
| 1300 | 5050 | | 1200 | 7.1 | 0.00 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/24E-17A01 | | M | | | | | | | | | | | |
| 07/31/74 | 5050 | | | 22.0C | | | -- | -- | -- | | -- | | -- | -- | |
| 0945 | 5050 | | 450 | 7.3 | 0.00 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/26E-31R02 | | M | | | | | | | | | | | |
| 08/02/74 | 5050 | | | 22.0C | | | -- | -- | -- | | -- | | -- | -- | |
| 0830 | 5050 | | 550 | 7.1 | 0.00 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/27E-07Q01 | | M | | | | | | | | | | | |
| 08/05/74 | 5050 | | | 23.0C | | | -- | -- | -- | | -- | | -- | -- | |
| 0915 | 5050 | | 700 | 6.9 | 0.00 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 21S/28E-35L02 | | M | | | | | | | | | | | |
| 08/05/74 | 5050 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 0930 | 5050 | | | 7.3 | 0.02 | T | -- | -- | -- | | -- | | -- | -- | |
| | | 24S/24E-09Q02 | | M | | | | | | | | | | | |
| 10/10/73 | 5060 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| | 5060 | | | | 0.13 | T | -- | -- | -- | | -- | | -- | -- | |
| 10/24/73 | 5060 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 1020 | 5060 | | | | 0.01 | D | -- | -- | -- | | -- | | -- | -- | |
| 11/13/73 | 5060 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 1100 | 5060 | | | | 0.01 | D | -- | -- | -- | | -- | | -- | -- | |
| 11/13/73 | 5060 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 1115 | 5060 | | | | 0.19 | T | -- | -- | -- | | -- | | -- | -- | |
| 12/10/73 | 5060 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 1000 | 5060 | | | | 0.12 | T | -- | -- | -- | | -- | | -- | -- | |
| 12/10/73 | 5060 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| 1100 | 5060 | | | | 0.01 | D | -- | -- | -- | | -- | | -- | -- | |
| | | 25S/25E-01F01 | | M | | | | | | | | | | | |
| 01/02/74 | 5205 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| | 5806 | | | | 0.01 | D | -- | -- | 0.05 | T | 0.01 | T | -- | -- | |
| | | 25S/25E-02M01 | | M | | | | | | | | | | | |
| 01/02/74 | 5205 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| | 5806 | | | | 0.01 | D | -- | -- | 0.05 | T | 0.01 | T | -- | -- | |
| | | 25S/25E-02R02 | | M | | | | | | | | | | | |
| 01/02/74 | 5205 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| | 5806 | | | | 0.01 | D | -- | -- | 0.05 | T | 0.01 | T | -- | -- | |
| | | 25S/25E-10A01 | | M | | | | | | | | | | | |
| 01/02/74 | 5205 | | | | | | -- | -- | -- | | -- | | -- | -- | |
| | 5806 | | | | 0.01 | D | -- | -- | 0.05 | T | 0.01 | T | -- | -- | |

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | CONSTITUENTS IN MILLIGRAMS PER LITER BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | |
| | | 25S/25E-11E01 | | M | | | | | | | | |
| 1/02/74 | 5205 | | | | | -- | -- | -- | -- | -- | -- | |
| | 5R06 | | | | 0.01 D | -- | -- | 0.05 T | 0.01 T | -- | -- | |
| | | 25S/25E-11H01 | | M | | | | | | | | |
| 1/02/74 | 5205 | | | | | -- | -- | -- | -- | -- | -- | |
| | 5R06 | | | | 0.01 D | -- | -- | 0.05 T | 0.06 T | -- | -- | |
| | | 25S/25E-11J01 | | M | | | | | | | | |
| 1/02/74 | 5205 | | | | | -- | -- | -- | -- | -- | -- | |
| | 5R06 | | | | 0.01 D | -- | -- | 0.05 T | 0.01 T | -- | -- | |
| | | 25S/25E-11P01 | | M | | | | | | | | |
| 1/02/74 | 5205 | | | | | -- | -- | -- | -- | -- | -- | |
| | 5R06 | | | | 0.01 D | -- | -- | 0.05 T | 0.01 T | -- | -- | |
| | | 25S/25E-12E01 | | M | | | | | | | | |
| 1/02/74 | 5205 | | | | | -- | -- | -- | -- | -- | -- | |
| | 5R06 | | | | 0.01 D | -- | -- | 0.05 T | 0.01 T | -- | -- | |
| | | 29S/27E-23H01 | | M | | | | | | | | |
| 2/14/74 | 5701 | | | 66 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 249 | 7.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| 2/27/74 | 5701 | | | | | -- | 0.0000 | 0.02 | 0.000 | 0.005 | -- | |
| | 5701 | | | | 0.0037 | 0.0000 | -- | -- | -- | 0.0012 | 0.02 | |
| | | 29S/27E-25B02 | | M | | | | | | | | |
| 9/05/74 | 5701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 260 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.05 | |
| | | 29S/27E-25D02 | | M | | | | | | | | |
| 8/13/74 | 5701 | | | | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 238 | 7.8 | -- | -- | -- | 0.02 | 0.00 | -- | 0.14 | |
| | | 29S/27E-25G01 | | M | | | | | | | | |
| 5/08/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 218 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.15 | |
| | | 29S/27E-25G02 | | M | | | | | | | | |
| 9/05/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 252 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.10 | |
| | | 29S/27E-25R01 | | M | | | | | | | | |
| 1/16/74 | 5701 | | | 66 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 244 | 7.4 | -- | -- | -- | 0.28 | 0.01 | -- | 0.04 | |
| | | 29S/27E-26J01 | | M | | | | | | | | |
| 3/20/74 | 5701 | | | 65 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 221 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.05 | |
| | | 29S/27E-35A02 | | M | | | | | | | | |
| 8/12/74 | 5701 | | | 67 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 199 | 7.8 | -- | -- | -- | 0.00 | 0.00 | -- | 0.04 | |
| | | 29S/27E-35E01 | | M | | | | | | | | |
| 1/16/74 | 5701 | | | 66 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 246 | 7.5 | -- | -- | -- | 0.00 | 0.01 | -- | 0.15 | |
| 2/27/74 | 5701 | | | | | -- | 0.001 | 0.01 | 0.0000 | 0.0005 | -- | |
| | 5701 | | | | 0.0037 | 0.000 | -- | -- | -- | 0.0000 | 0.02 | |
| | | 29S/27E-35G01 | | M | | | | | | | | |
| 3/12/74 | 5701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 221 | 7.4 | -- | -- | -- | 0.00 | 0.01 | -- | 0.04 | |
| | | 29S/27E-36H01 | | M | | | | | | | | |
| 3/12/74 | 5701 | | | 68 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 475 | 7.2 | -- | -- | -- | 0.02 | 0.01 | -- | 0.05 | |
| | | 29S/27E-36K01 | | M | | | | | | | | |
| 2/14/74 | 5701 | | | 65 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 212 | 7.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 | |
| 1/12/74 | 5701 | | | 67 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 245 | 7.5 | -- | -- | -- | 0.02 | 0.00 | -- | 0.04 | |

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 29S/28E-16E01 | | M | | | | | | | | |
| 09/05/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 257 | 7.6 | -- | -- | -- | 0.04 | 0.11 | -- | 0.05 | |
| | | 29S/28E-16M01 | | M | | | | | | | | |
| 01/16/74 | 5701 | | | 68 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 311 | 7.9 | -- | -- | -- | 0.00 | 0.04 | -- | 0.00 | |
| | | 29S/28E-16Q01 | | M | | | | | | | | |
| 06/12/74 | 5701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 286 | 7.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.07 | |
| | | 29S/28E-16R01 | | M | | | | | | | | |
| 09/05/74 | 5701 | | | 78 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 268 | 7.8 | -- | -- | -- | 0.00 | 0.02 | -- | 0.05 | |
| | | 29S/28E-17R01 | | M | | | | | | | | |
| 08/12/74 | 5701 | | | 72 F | | -- | -- | 0.01 | -- | -- | -- | |
| | 5701 | | 401 | 7.6 | -- | -- | -- | 0.02 | 0.31 | -- | 0.05 | |
| | | 29S/28E-19J03 | | M | | | | | | | | |
| 01/16/74 | 5701 | | | 68 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 195 | 7.7 | -- | -- | -- | 0.00 | 0.03 | -- | 0.00 | |
| | | 29S/28E-19K01 | | M | | | | | | | | |
| 02/14/74 | 5701 | | | 66 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 236 | 7.4 | -- | -- | -- | 0.00 | 0.01 | -- | 0.01 | |
| | | 29S/28E-19L01 | | M | | | | | | | | |
| 05/08/74 | 5701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 264 | 7.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.10 | |
| | | 29S/28E-19N02 | | M | | | | | | | | |
| 04/16/74 | 5701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 286 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.04 | |
| 05/08/74 | 5701 | | | | | -- | 0.000 | 0.00 | 0.000 | 0.0000 | -- | |
| | 5701 | | | | 0.0005 | 0.000 | -- | -- | -- | 0.0014 | 0.002 | |
| | | 29S/28E-19Q01 | | M | | | | | | | | |
| 04/17/74 | 5701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 224 | 8.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 | |
| | | 29S/28E-20A01 | | M | | | | | | | | |
| 01/16/74 | 5701 | | | 72 F | | 0.0 | 0.000 | 0.00 | 0.000 | 0.0000 | -- | |
| | 5701 | | 509 | 7.6 | 0.0025 | 0.000 | -- | 0.04 | 0.07 | 0.0011 | 0.01 | |
| | | 29S/28E-20G02 | | M | | | | | | | | |
| 04/17/74 | 5701 | | | 74 F | | -- | 0.00 | 0.00 | 0.000 | -- | -- | |
| | 5701 | | 572 | 7.5 | -- | 0.000 | -- | 0.00 | 0.11 | -- | 0.00 | |
| | | 29S/28E-20H01 | | M | | | | | | | | |
| 03/20/74 | 5701 | | | 77 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 184 | 8.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 | |
| | | 29S/28E-20L01 | | M | | | | | | | | |
| 01/16/74 | 5701 | | | 72 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 433 | 7.7 | -- | -- | -- | 0.00 | 0.06 | -- | 0.10 | |
| | | 29S/28E-21C01 | | M | | | | | | | | |
| 09/05/74 | 5701 | | | 79 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 288 | 8.0 | -- | -- | -- | 0.00 | 0.03 | -- | 0.04 | |
| | | 29S/28E-21D01 | | M | | | | | | | | |
| 09/05/74 | 5701 | | | 78 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 330 | 7.9 | -- | -- | -- | 0.00 | 0.01 | -- | 0.04 | |
| | | 29S/28E-21E01 | | M | | | | | | | | |
| 02/14/74 | 5701 | | | 76 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 212 | 7.8 | -- | -- | -- | 0.00 | 0.01 | -- | 0.01 | |
| | | 29S/28E-21G01 | | M | | | | | | | | |
| 05/08/74 | 5701 | | | 80 F | | -- | -- | 0.00 | -- | -- | -- | |
| | 5701 | | 250 | 8.3 | -- | -- | -- | 0.00 | 0.01 | -- | 0.10 | |
| 06/12/74 | 5701 | | | | | -- | 0.001 | 0.00 | 0.000 | 0.000 | -- | |
| | 5701 | | | | 0.0000 | 0.000 | -- | -- | -- | 0.0011 | 0.00 | |

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

| TE KE | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | CONSTITUENTS IN MILLIGRAMS PER LITER BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 29S/28E-21M01 | | M | | | | | | | | |
| 6/74 | S701 | | | 73 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | S701 | | 257 | 7.7 | -- | -- | -- | 0.00 | 0.03 | -- | 0.02 | |
| | | 29S/28E-29D01 | | M | | | | | | | | |
| 6/74 | S701 | | | 69 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | S701 | | 250 | 7.8 | -- | -- | -- | 0.02 | 0.01 | -- | 0.04 | |
| | | 29S/28E-29L01 | | M | | | | | | | | |
| 5/74 | S701 | | | 72 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 190 | 8.1 | -- | -- | -- | 0.00 | 0.01 | -- | 0.02 | |
| | | 29S/28E-29P01 | | M | | | | | | | | |
| 2/74 | S701 | | | 74 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 231 | 8.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.05 | |
| | | 29S/28E-29Q01 | | M | | | | | | | | |
| 2/74 | S701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 314 | 8.3 | -- | -- | -- | 0.00 | 0.02 | -- | 0.03 | |
| | | 29S/28E-30A01 | | M | | | | | | | | |
| 8/74 | S701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 210 | 7.8 | -- | -- | -- | 0.00 | 0.00 | -- | 0.10 | |
| | | 29S/28E-30F02 | | M | | | | | | | | |
| 2/74 | S701 | | | 67 F | | -- | -- | 0.01 | -- | -- | -- | |
| | S701 | | 302 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.07 | |
| | | 29S/28E-30G01 | | M | | | | | | | | |
| 7/74 | S701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 328 | 7.8 | -- | -- | -- | 0.01 | 0.00 | -- | 0.02 | |
| | | 29S/28E-30H02 | | M | | | | | | | | |
| 7/74 | S701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 215 | 7.6 | -- | -- | -- | 0.04 | 0.00 | -- | 0.01 | |
| | | 29S/28E-30J02 | | M | | | | | | | | |
| 2/74 | S701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 295 | 7.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 29S/28E-30D04 | | M | | | | | | | | |
| 2/74 | S701 | | | 68 F | | -- | -- | 0.01 | -- | -- | -- | |
| | S701 | | 291 | 7.4 | -- | -- | -- | 0.01 | 0.00 | -- | 0.07 | |
| | | 29S/28E-31B02 | | M | | | | | | | | |
| 2/74 | S701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 289 | 7.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.13 | |
| | | 29S/28E-31B04 | | M | | | | | | | | |
| 7/74 | S701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 282 | 8.1 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 | |
| 8/74 | S701 | | | | | -- | 0.000 | 0.00 | 0.000 | 0.0000 | -- | |
| | S701 | | | | 0.0022 | 0.000 | -- | -- | -- | 0.0004 | 0.01 | |
| | | 29S/28E-31B05 | | M | | | | | | | | |
| 5/74 | S701 | | | 68 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | S701 | | 224 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.09 | |
| | | 29S/28E-31F02 | | M | | | | | | | | |
| 4/74 | S701 | | | 67 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | S701 | | 341 | 7.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 29S/28E-31J02 | | M | | | | | | | | |
| 5/74 | S701 | | | 67 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | S701 | | 252 | 7.7 | -- | -- | -- | 0.00 | 0.01 | -- | 0.01 | |
| | | 29S/28E-31K02 | | M | | | | | | | | |
| 2/74 | S701 | | | 68 F | | -- | -- | 0.01 | -- | -- | -- | |
| | S701 | | 310 | 7.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.07 | |
| | | 29S/28E-31Q03 | | M | | | | | | | | |
| 7/74 | S701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 418 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.04 | |

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | |
| | | 295/28E-32001 | | M | | | | | | | |
| 09/05/74 | 5701 | | | 72 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 646 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 |
| | | 295/28E-32L01 | | M | | | | | | | |
| 08/14/74 | 5701 | | | 72 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 774 | 8.0 | -- | -- | -- | 0.03 | 0.00 | -- | 0.03 |
| | | 295/28E-32N01 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 70 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 318 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 |
| | | 295/28E-32R01 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 72 F | | 0.0 | -- | 0.01 | -- | -- | -- |
| | 5701 | | 816 | 7.8 | -- | -- | -- | 0.01 | 0.00 | -- | 0.01 |
| | | 295/28E-32R02 | | M | | | | | | | |
| 02/14/74 | 5701 | | | 72 F | | 0.0 | -- | 0.01 | -- | -- | -- |
| | 5701 | | 971 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 |
| | | 295/28E-34J01 | | M | | | | | | | |
| 05/08/74 | 5701 | | | 78 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 2448 | 7.6 | -- | -- | -- | 0.03 | 0.00 | -- | 0.20 |
| | | 295/28E-35E03 | | M | | | | | | | |
| 04/17/74 | 5701 | | | 78 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 758 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 |
| | | 305/27E-01B02 | | M | | | | | | | |
| 05/08/74 | 5701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 204 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.10 |
| | | 305/27E-01G02 | | M | | | | | | | |
| 06/12/74 | 5701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 613 | 7.3 | -- | -- | -- | 0.08 | 0.00 | -- | 0.11 |
| | | 305/27E-01J01 | | M | | | | | | | |
| 04/17/74 | 5701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 256 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 |
| | | 305/27E-01K01 | | M | | | | | | | |
| 04/17/74 | 5701 | | | 67 F | | -- | -- | 0.01 | -- | -- | -- |
| | 5701 | | 361 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 |
| 04/17/74 | 5701 | | | | | 0.11 | 0.000 | 0.00 | 0.00 | 0.0000 | -- |
| | 5701 | | | | 0.005 | 0.000 | -- | -- | -- | 0.005 | 0.04 |
| | | 305/27E-01M01 | | M | | | | | | | |
| 04/17/74 | 5701 | | | 68 F | | -- | -- | 0.07 | -- | -- | -- |
| | 5701 | | 242 | 7.8 | -- | -- | -- | 0.03 | 0.00 | -- | 0.03 |
| | | 305/27E-02A01 | | M | | | | | | | |
| 05/08/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 289 | 7.4 | -- | -- | -- | 0.02 | 0.00 | -- | 0.08 |
| | | 305/27E-02A02 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 66 F | | 0.0 | -- | 0.00 | -- | -- | -- |
| | 5701 | | 264 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 |
| | | 305/27E-02F01 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 304 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.06 |
| | | 305/27E-02H01 | | M | | | | | | | |
| 09/05/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 332 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.04 |
| | | 305/27E-02R01 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 186 | 8.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 |

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 30S/27E-11D02 | | M | | | | | | | | |
| /12/74 | S701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 237 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.11 | |
| | | 30S/27E-11G01 | | M | | | | | | | | |
| /20/74 | S701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 286 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 30S/27E-11M02 | | M | | | | | | | | |
| /25/74 | S701 | | | 64 F | | -- | -- | 0.01 | -- | -- | -- | |
| | S701 | | 264 | 7.7 | -- | -- | -- | 0.00 | 0.01 | -- | 0.02 | |
| | | 30S/27E-12C01 | | M | | | | | | | | |
| /05/74 | S701 | | | 66 F | | -- | -- | 0.05 | -- | -- | -- | |
| | S701 | | 452 | 7.1 | -- | -- | -- | 0.00 | 0.00 | -- | 0.18 | |
| | | 30S/27E-12L02 | | M | | | | | | | | |
| /08/74 | S701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 406 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.12 | |
| /12/74 | S701 | | | | | -- | 0.002 | 0.00 | 0.000 | 0.0000 | -- | |
| | S701 | | | | 0.0000 | 0.000 | -- | -- | -- | 0.0022 | 0.00 | |
| | | 30S/27E-12R01 | | M | | | | | | | | |
| /05/74 | S701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 260 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 | |
| | | 30S/27E-13H01 | | M | | | | | | | | |
| /20/74 | S701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 285 | 7.8 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 | |
| | | 30S/27E-13H02 | | M | | | | | | | | |
| /16/74 | S701 | | | 66 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | S701 | | 277 | 7.7 | -- | -- | -- | 0.02 | 0.00 | -- | 0.00 | |
| | | 30S/27E-23C02 | | M | | | | | | | | |
| /12/74 | S701 | | | 64 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 318 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.04 | |
| | | 30S/27E-23C03 | | M | | | | | | | | |
| /12/74 | S701 | | | 64 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 314 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.06 | |
| /09/74 | S701 | | | | | 0.08 | 0.002 | 0.00 | 0.00 | 0.0000 | -- | |
| | S701 | | | | 0.004 | 0.000 | -- | -- | -- | 0.000 | 0.00 | |
| | | 30S/27E-23C04 | | M | | | | | | | | |
| /20/74 | S701 | | | 64 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 305 | 7.8 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 30S/27E-23D01 | | M | | | | | | | | |
| /08/74 | S701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 333 | 7.6 | -- | -- | -- | 0.03 | 0.00 | -- | 0.12 | |
| | | 30S/27E-23D02 | | M | | | | | | | | |
| /12/74 | S701 | | | 64 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 309 | 7.6 | -- | -- | -- | 0.02 | 0.00 | -- | 0.13 | |
| | | 30S/28E-05B01 | | M | | | | | | | | |
| /4/74 | S701 | | | 68 F | | 0.0 | -- | 0.01 | -- | -- | -- | |
| | S701 | | 358 | 7.3 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 30S/28E-05C01 | | M | | | | | | | | |
| /2/74 | S701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- | |
| | S701 | | 526 | 7.8 | -- | -- | -- | 0.06 | 0.00 | -- | 0.10 | |
| /3/74 | S701 | | | | | 0.13 | 0.002 | 0.00 | 0.00 | 0.0001 | -- | |
| | S701 | | | | 0.003 | 0.000 | -- | -- | -- | 0.005 | 0.03 | |
| | | 30S/28E-05E01 | | M | | | | | | | | |
| /6/74 | S701 | | | 67 F | | 0.0 | -- | 0.02 | -- | -- | -- | |
| | S701 | | 405 | 7.4 | -- | -- | -- | 0.06 | 0.00 | -- | 0.18 | |
| | | 30S/28E-05F01 | | M | | | | | | | | |
| /4/74 | S701 | | | 56 F | | 0.0 | -- | 0.00 | -- | -- | -- | |
| | S701 | | 351 | 7.4 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 | |
| | | 30S/28E-05K01 | | M | | | | | | | | |
| /74 | S701 | | | 68 F | | 0.0 | -- | 0.01 | -- | -- | -- | |
| | S701 | | 607 | 7.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 | |

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ARSENIC | BARIUM CADMIUM | CHROM (ALL) CHROM (HEX) | COPPER IRON | LEAD MANGANESE | MERCURY SELENIUM | SILVER ZINC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | |
| | | 30S/28E-05N01 M | | | | | | | | | |
| 02/14/74 | 5701 | | | 68 F | | 0.0 | -- | 0.00 | -- | -- | -- |
| | 5701 | | 231 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 |
| | | 30S/28E-06C02 M | | | | | | | | | |
| 05/08/74 | 5701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 388 | 7.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.10 |
| | | 30S/28E-06C03 M | | | | | | | | | |
| 04/17/74 | 5701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 385 | 7.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 |
| 09/09/74 | 5701 | | | | | 0.10 | 0.002 | 0.00 | 0.00 | 0.0000 | -- |
| | 5701 | | | | 0.007 | 0.000 | -- | -- | -- | 0.007 | 0.02 |
| | | 30S/28E-06G02 M | | | | | | | | | |
| 08/12/74 | 5701 | | | 66 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 413 | 7.5 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 |
| | | 30S/28E-06M01 M | | | | | | | | | |
| 02/14/74 | 5701 | | | 67 F | | 0.0 | -- | 0.00 | -- | -- | -- |
| | 5701 | | 315 | 7.2 | -- | -- | -- | 0.00 | 0.00 | -- | 0.02 |
| | | 30S/28E-07B01 M | | | | | | | | | |
| 06/12/74 | 5701 | | | 68 F | | -- | -- | 0.01 | -- | -- | -- |
| | 5701 | | 324 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.06 |
| | | 30S/28E-07C01 M | | | | | | | | | |
| 08/12/74 | 5701 | | | 68 F | | -- | -- | 0.01 | -- | -- | -- |
| | 5701 | | 372 | 7.3 | -- | -- | -- | 0.02 | 0.00 | -- | 0.04 |
| | | 30S/28E-07E01 M | | | | | | | | | |
| 03/20/74 | 5701 | | | 67 F | | -- | -- | 0.01 | -- | -- | -- |
| | 5701 | | 268 | 7.5 | -- | -- | -- | 0.01 | 0.00 | -- | 0.07 |
| | | 30S/28E-08B01 M | | | | | | | | | |
| 05/08/74 | 5701 | | | 70 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 664 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.12 |
| | | 30S/28E-08M02 M | | | | | | | | | |
| 02/14/74 | 5701 | | | 71 F | | 0.0 | -- | 0.00 | -- | -- | -- |
| | 5701 | | 314 | 7.0 | -- | -- | -- | 0.00 | 0.00 | -- | 0.00 |
| | | 30S/28E-18B01 M | | | | | | | | | |
| 09/05/74 | 5701 | | | 70 F | | -- | -- | 0.01 | -- | -- | -- |
| | 5701 | | 400 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.01 |
| | | 30S/28E-18E01 M | | | | | | | | | |
| 03/20/74 | 5701 | | | 67 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 301 | 7.7 | -- | -- | -- | 0.00 | 0.00 | -- | 0.03 |
| | | 30S/28E-18K01 M | | | | | | | | | |
| 05/08/74 | 5701 | | | 68 F | | -- | -- | 0.00 | -- | -- | -- |
| | 5701 | | 386 | 7.6 | -- | -- | -- | 0.00 | 0.00 | -- | 0.40 |

TABLE E-3

SUPPLEMENTAL MINOR ELEMENT ANALYSES OF GROUND WATER

Table E-3 presents analyses which do not appear on Tables E-1 and E-2. Listed below are definitions of abbreviations and codes used in this table:

Codes

5701 California Water Service Company

Abbreviations

T Total

REM Remarks

TABLE E-3

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

| DATE TIME | SAMP LAB | DEPTH | DISCH FC | TEMP PH | ALUMINUM | CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY BERYLLIUM | BISMUTH COBALT | GALLIUM GERMANIUM | LITHIUM MOLYBDENUM | NICKEL STRONTIUM | TITANIUM VANADIUM | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 1S5/22E-31A01 | | M | | | | | | | | |
| 04/11/74 | 5701 | | | 67 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 291 | 8.1 | -- | -- | -- | -- | -- | 0.30 | -- | |
| | | 1S5/22E-32L01 | | M | | | | | | | | |
| 05/15/74 | 5701 | | | 69 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 161 | 8.2 | -- | -- | -- | -- | -- | 0.20 | -- | |
| | | 16S/22E-05C01 | | M | | | | | | | | |
| 09/15/74 | 5701 | | | | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 244 | 8.0 | -- | -- | -- | -- | -- | 0.22 | -- | |
| | | 16S/22E-05C02 | | M | | | | | | | | |
| 08/06/74 | 5701 | | | 71 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 205 | 7.7 | -- | -- | -- | -- | -- | 0.08 | -- | |
| | | 16S/22E-05E01 | | M | | | | | | | | |
| 04/11/74 | 5701 | | | 67 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 248 | 8.2 | -- | -- | -- | -- | -- | 0.16 | -- | |
| | | 16S/22E-05E02 | | M | | | | | | | | |
| 05/15/74 | 5701 | | | 69 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 147 | 8.2 | -- | -- | -- | -- | -- | 0.10 | -- | |
| | | 16S/22E-05M01 | | M | | | | | | | | |
| 05/15/74 | 5701 | | | 69 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 294 | 8.0 | -- | -- | -- | -- | -- | 0.21 | -- | |
| | | 16S/22E-06G01 | | M | | | | | | | | |
| 08/06/74 | 5701 | | | 70 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 304 | 7.9 | -- | -- | -- | -- | -- | 0.16 | -- | |
| | | 16S/22E-06K01 | | M | | | | | | | | |
| 04/11/74 | 5701 | | | 69 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 201 | 8.5 | -- | -- | -- | -- | -- | 0.20 | -- | |
| | | 16S/22E-06Q01 | | M | | | | | | | | |
| 09/15/74 | 5701 | | | 72 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 264 | 8.0 | -- | -- | -- | -- | -- | 0.24 | -- | |
| | | 16S/22E-07A01 | | M | | | | | | | | |
| 09/15/74 | 5701 | | | 70 F | | -- | -- | -- | 0.004 | -- | -- | |
| | 5701 | | 394 | 8.0 | -- | -- | -- | -- | -- | 0.38 | -- | |
| | | 16S/22E-07C02 | | M | | | | | | | | |
| 08/06/74 | 5701 | | | 71 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 140 | 8.5 | -- | -- | -- | -- | -- | 0.06 | -- | |
| | | 18S/24E-27R02 | | M | | | | | | | | |
| 05/15/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 186 | 7.6 | -- | -- | -- | -- | -- | 0.16 | -- | |
| | | 18S/24E-35C02 | | M | | | | | | | | |
| 02/27/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 410 | 7.7 | -- | -- | -- | -- | -- | 0.26 | -- | |
| | | 18S/24E-35C03 | | M | | | | | | | | |
| 02/27/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 422 | 7.6 | -- | -- | -- | -- | -- | 0.34 | -- | |
| | | 18S/24E-35N01 | | M | | | | | | | | |
| 06/12/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 188 | 7.9 | -- | -- | -- | -- | -- | 0.23 | -- | |
| | | 18S/24E-36C01 | | M | | | | | | | | |
| 06/12/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 175 | 7.9 | -- | -- | -- | -- | -- | 0.18 | -- | |
| | | 18S/24E-36E01 | | M | | | | | | | | |
| 06/12/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 234 | 7.7 | -- | -- | -- | -- | -- | 0.30 | -- | |
| | | 18S/24E-36K01 | | M | | | | | | | | |
| 09/24/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 221 | 7.9 | -- | -- | -- | -- | -- | 0.28 | -- | |

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ALUMINUM | ANTIMONY BERYLLIUM | BISMUTH COBALT | GALLIUM GERMANIUM | LITHIUM MOLYBDENUM | NICKEL STRONTIUM | TITANIUM VANADIUM | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 18S/25E-14N01 M | | | | | | | | | | |
| 9/24/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 228 | 7.4 | -- | -- | -- | -- | -- | 0.20 | -- | |
| | | 18S/25E-19N01 M | | | | | | | | | | |
| 9/24/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 190 | 8.2 | -- | -- | -- | -- | -- | 0.18 | -- | |
| | | 18S/25E-19Q01 M | | | | | | | | | | |
| 2/27/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 181 | 8.0 | -- | -- | -- | -- | -- | 0.16 | -- | |
| | | 18S/25E-20F01 M | | | | | | | | | | |
| 1/24/74 | 5701 | | | 64 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 283 | 7.6 | -- | -- | -- | -- | -- | 0.28 | -- | |
| | | 18S/25E-27N01 M | | | | | | | | | | |
| 1/31/74 | 5701 | | | 64 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 179 | 8.0 | -- | -- | -- | -- | -- | 0.24 | -- | |
| | | 18S/25E-27P01 M | | | | | | | | | | |
| 5/03/74 | 5701 | | | 64 F | | -- | -- | -- | 0.00 | -- | -- | |
| | 5701 | | 176 | 7.8 | -- | -- | -- | -- | -- | 0.09 | -- | |
| | | 18S/25E-28Q01 M | | | | | | | | | | |
| 4/23/74 | 5701 | | | 63 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 182 | 8.0 | -- | -- | -- | -- | -- | 0.17 | -- | |
| | | 18S/25E-28L01 M | | | | | | | | | | |
| 8/19/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 255 | 7.5 | -- | -- | -- | -- | -- | 0.12 | -- | |
| | | 18S/25E-29B01 M | | | | | | | | | | |
| 8/19/74 | 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 177 | 7.6 | -- | -- | -- | -- | -- | 0.09 | -- | |
| | | 18S/25E-29C01 M | | | | | | | | | | |
| 4/23/74 | 5701 | | | 64 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 184 | 8.0 | -- | -- | -- | -- | -- | 0.17 | -- | |
| | | 18S/25E-29R01 M | | | | | | | | | | |
| 4/23/74 | 5701 | | | 64 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 229 | 8.0 | -- | -- | -- | -- | -- | 0.21 | -- | |
| | | 18S/25E-30F01 M | | | | | | | | | | |
| 6/12/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 175 | 7.8 | -- | -- | -- | -- | -- | 0.20 | -- | |
| | | 18S/25E-30H01 M | | | | | | | | | | |
| 9/24/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 323 | 7.9 | -- | -- | -- | -- | -- | 0.33 | -- | |
| | | 18S/25E-30H02 M | | | | | | | | | | |
| 9/24/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 328 | 7.7 | -- | -- | -- | -- | -- | 0.32 | -- | |
| | | 18S/25E-30N01 M | | | | | | | | | | |
| 8/19/74 | 5701 | | | | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 190 | 8.0 | -- | -- | -- | -- | -- | 0.10 | -- | |
| | | 18S/25E-30R02 M | | | | | | | | | | |
| 5/15/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 270 | 7.8 | -- | -- | -- | -- | -- | 0.28 | -- | |
| | | 18S/25E-31B01 M | | | | | | | | | | |
| 4/23/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 271 | 7.9 | -- | -- | -- | -- | -- | 0.30 | -- | |
| | | 18S/25E-31B03 M | | | | | | | | | | |
| 9/24/74 | 5701 | | | | | -- | -- | -- | 0.00 | -- | -- | |
| | 5701 | | 241 | 7.9 | -- | -- | -- | -- | -- | 0.23 | -- | |
| | | 18S/25E-31E01 M | | | | | | | | | | |
| 8/19/74 | 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 226 | 7.9 | -- | -- | -- | -- | -- | 0.14 | -- | |

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ALUMINUM | CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY BERYLLIUM | BISMUTH COBALT | GALLIUM GERMANIUM | LITHIUM MOLYBDENUM | NICKEL STRONTIUM | TITANIUM VANADIUM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | |
| | | 18S/25E-31K01 | | M | | | | | | | |
| 02/27/74 | 5701 | | | 63 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 241 | 7.8 | -- | -- | -- | -- | -- | 0.21 | -- |
| | | 18S/25E-31R01 | | M | | | | | | | |
| 05/15/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 218 | 7.8 | -- | -- | -- | -- | -- | 0.26 | -- |
| | | 18S/25E-32E01 | | M | | | | | | | |
| 04/23/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 193 | 7.9 | -- | -- | -- | -- | -- | 0.28 | -- |
| | | 18S/25E-32F02 | | M | | | | | | | |
| 04/23/74 | 5701 | | | 64 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 194 | 8.0 | -- | -- | -- | -- | -- | 0.18 | -- |
| | | 18S/25E-32G01 | | M | | | | | | | |
| 05/15/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 265 | 7.9 | -- | -- | -- | -- | -- | 0.26 | -- |
| | | 18S/25E-32K01 | | M | | | | | | | |
| 04/23/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 233 | 7.6 | -- | -- | -- | -- | -- | 0.18 | -- |
| | | 19S/24E-01G01 | | M | | | | | | | |
| 08/19/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 346 | 7.7 | -- | -- | -- | -- | -- | 0.21 | -- |
| | | 19S/24E-01P01 | | M | | | | | | | |
| 05/20/74 | 5701 | | | 62 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 434 | 7.6 | -- | -- | -- | -- | -- | 0.53 | -- |
| | | 19S/24E-02H01 | | M | | | | | | | |
| 11/15/73 | 5701 | | | 65 F | | -- | -- | -- | 0.000 T | -- | -- |
| | 5701 | | 290 | 7.5 | -- | -- | -- | -- | -- | 0.31 T | -- |
| 04/23/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 293 | 7.8 | -- | -- | -- | -- | -- | 0.20 | -- |
| | | 19S/24E-02H02 | | M | | | | | | | |
| 02/27/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 283 | 7.9 | -- | -- | -- | -- | -- | 0.30 | -- |
| | | 19S/24E-02K01 | | M | | | | | | | |
| 09/24/74 | 5701 | | | 67 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 150 | 8.0 | -- | -- | -- | -- | -- | 0.16 | -- |
| | | 19S/25E-06E01 | | M | | | | | | | |
| 01/24/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 172 | 8.1 | -- | -- | -- | -- | -- | 0.20 | -- |
| | | 19S/25E-06M01 | | M | | | | | | | |
| 04/23/74 | 5701 | | | 64 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 291 | 7.9 | -- | -- | -- | -- | -- | 0.36 | -- |
| | | 19S/25E-07A01 | | M | | | | | | | |
| 01/24/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 266 | 7.7 | -- | -- | -- | -- | -- | 0.32 | -- |
| | | 29S/27E-23H01 | | M | | | | | | | |
| 02/14/74 | 5701 | | | 66 F | | -- | -- | -- | 0.003 | -- | -- |
| | 5701 | | 249 | 7.5 | -- | -- | -- | -- | -- | 0.20 | -- |
| | | 29S/27E-25B02 | | M | | | | | | | |
| 09/05/74 | 5701 | | | 68 F | | -- | -- | -- | 0.002 | -- | -- |
| | 5701 | | 260 | 7.4 | -- | -- | -- | -- | -- | 0.12 | -- |
| | | 29S/27E-25D02 | | M | | | | | | | |
| 08/13/74 | 5701 | | | | | -- | -- | -- | 0.003 | -- | -- |
| | 5701 | | 238 | 7.8 | -- | -- | -- | -- | -- | 0.11 | -- |
| | | 29S/27E-25G01 | | M | | | | | | | |
| 05/08/74 | 5701 | | | 66 F | | -- | -- | -- | 0.004 | -- | -- |
| | 5701 | | 218 | 7.6 | -- | -- | -- | -- | -- | 0.19 | -- |

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ALUMINUM | ANTIMONY BERYLLIUM | BISMUTH COBALT | GALLIUM GERMANIUM | LITHIUM MOLYBDENUM | NICKEL STRONTIUM | TITANIUM VANADIUM | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 29S/27E-25G02 | | M | | | | | | | | |
| /05/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 252 | 7.6 | -- | -- | -- | -- | -- | 0.13 | -- | |
| | | 29S/27E-25R01 | | M | | | | | | | | |
| /16/74 | 5701 | | | 66 F | | -- | -- | -- | 0.005 | -- | -- | |
| | 5701 | | 244 | 7.4 | -- | -- | -- | -- | -- | 0.20 | -- | |
| | | 29S/27E-26J01 | | M | | | | | | | | |
| /20/74 | 5701 | | | 65 F | | -- | -- | -- | 0.005 | -- | -- | |
| | 5701 | | 221 | 8.0 | -- | -- | -- | -- | -- | 0.20 | -- | |
| | | 29S/27E-35A02 | | M | | | | | | | | |
| /12/74 | 5701 | | | 67 F | | -- | -- | -- | 0.002 | -- | -- | |
| | 5701 | | 199 | 7.8 | -- | -- | -- | -- | -- | 0.10 | -- | |
| | | 29S/27E-35E01 | | M | | | | | | | | |
| /16/74 | 5701 | | | 66 F | | -- | -- | -- | 0.002 | -- | -- | |
| | 5701 | | 246 | 7.5 | -- | -- | -- | -- | -- | 0.26 | -- | |
| | | 29S/27E-35G01 | | M | | | | | | | | |
| /12/74 | 5701 | | | 68 F | | -- | -- | -- | 0.002 | -- | -- | |
| | 5701 | | 221 | 7.4 | -- | -- | -- | -- | -- | 0.11 | -- | |
| | | 29S/27E-36H01 | | M | | | | | | | | |
| /12/74 | 5701 | | | 68 F | | -- | -- | -- | 0.008 | -- | -- | |
| | 5701 | | 475 | 7.2 | -- | -- | -- | -- | -- | 0.23 | -- | |
| | | 29S/27E-36K01 | | M | | | | | | | | |
| /14/74 | 5701 | | | 65 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 212 | 7.5 | -- | -- | -- | -- | -- | 0.22 | -- | |
| /12/74 | 5701 | | | 67 F | | -- | -- | -- | 0.002 | -- | -- | |
| | 5701 | | 245 | 7.5 | -- | -- | -- | -- | -- | 0.14 | -- | |
| | | 29S/28E-16E01 | | M | | | | | | | | |
| /05/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 257 | 7.6 | -- | -- | -- | -- | -- | 0.14 | -- | |
| | | 29S/28E-16M01 | | M | | | | | | | | |
| /16/74 | 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 311 | 7.9 | -- | -- | -- | -- | -- | 0.42 | -- | |
| | | 29S/28E-16Q01 | | M | | | | | | | | |
| /12/74 | 5701 | | | 68 F | | -- | -- | -- | 0.004 | -- | -- | |
| | 5701 | | 286 | 7.5 | -- | -- | -- | -- | -- | 0.32 | -- | |
| | | 29S/28E-16R01 | | M | | | | | | | | |
| /05/74 | 5701 | | | 78 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 268 | 7.8 | -- | -- | -- | -- | -- | 0.29 | -- | |
| | | 29S/28E-17R01 | | M | | | | | | | | |
| /12/74 | 5701 | | | 72 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 401 | 7.6 | -- | -- | -- | -- | -- | 0.21 | -- | |
| | | 29S/28E-19J03 | | M | | | | | | | | |
| /16/74 | 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 195 | 7.7 | -- | -- | -- | -- | -- | 0.16 | -- | |
| | | 29S/28E-19K01 | | M | | | | | | | | |
| /14/74 | 5701 | | | 66 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 236 | 7.4 | -- | -- | -- | -- | -- | 0.20 | -- | |
| | | 29S/28E-19L01 | | M | | | | | | | | |
| /08/74 | 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 264 | 7.5 | -- | -- | -- | -- | -- | 0.27 | -- | |
| | | 29S/28E-19N02 | | M | | | | | | | | |
| /16/74 | 5701 | | | 67 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 286 | 7.7 | -- | -- | -- | -- | -- | 0.24 | -- | |
| | | 29S/28E-19Q01 | | M | | | | | | | | |
| /17/74 | 5701 | | | 67 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 224 | 8.2 | -- | -- | -- | -- | -- | 0.12 | -- | |

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

CONSTITUENTS IN MILLIGRAMS PER LITER

| DATE TIME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ALUMINUM | ANTIMONY BERYLLIUM | BISMUTH COBALT | GALLIUM GERMANIUM | LITHIUM MOLYBDENUM | NICKEL STRONTIUM | TITANIUM VANADIUM | REF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 29S/28F-20A01 | | M | | | | | | | | |
| 01/16/74 | 5701 | | | 72 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 509 | 7.6 | -- | -- | -- | -- | -- | 0.46 | -- | |
| | | 29S/28F-20G02 | | M | | | | | | | | |
| 04/17/74 | 5701 | | | 74 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 572 | 7.5 | -- | -- | -- | -- | -- | 0.66 | -- | |
| | | 29S/28E-20H01 | | M | | | | | | | | |
| 03/20/74 | 5701 | | | 77 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 184 | 8.2 | -- | -- | -- | -- | -- | 0.35 | -- | |
| | | 29S/28F-20L01 | | M | | | | | | | | |
| 01/16/74 | 5701 | | | 72 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 433 | 7.7 | -- | -- | -- | -- | -- | 0.28 | -- | |
| | | 29S/28E-21C01 | | M | | | | | | | | |
| 09/05/74 | 5701 | | | 79 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 288 | 8.0 | -- | -- | -- | -- | -- | 0.34 | -- | |
| | | 29S/28E-21D01 | | M | | | | | | | | |
| 09/05/74 | 5701 | | | 78 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 330 | 7.9 | -- | -- | -- | -- | -- | 0.28 | -- | |
| | | 29S/28E-21E01 | | M | | | | | | | | |
| 02/14/74 | 5701 | | | 76 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 212 | 7.8 | -- | -- | -- | -- | -- | 0.30 | -- | |
| | | 29S/28F-21G01 | | M | | | | | | | | |
| 05/08/74 | 5701 | | | 80 F | | -- | -- | -- | 0.002 | -- | -- | |
| | 5701 | | 250 | 8.3 | -- | -- | -- | -- | -- | 0.50 | -- | |
| | | 29S/28F-21M01 | | M | | | | | | | | |
| 01/16/74 | 5701 | | | 73 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 257 | 7.7 | -- | -- | -- | -- | -- | 0.20 | -- | |
| | | 29S/28E-29D01 | | M | | | | | | | | |
| 01/16/74 | 5701 | | | 69 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 250 | 7.8 | -- | -- | -- | -- | -- | 0.26 | -- | |
| | | 29S/28F-29L01 | | M | | | | | | | | |
| 09/05/74 | 5701 | | | 72 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 190 | 8.1 | -- | -- | -- | -- | -- | 0.16 | -- | |
| | | 29S/28F-29P01 | | M | | | | | | | | |
| 08/12/74 | 5701 | | | 74 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 231 | 8.5 | -- | -- | -- | -- | -- | 0.07 | -- | |
| | | 29S/28E-29Q01 | | M | | | | | | | | |
| 06/12/74 | 5701 | | | 67 F | | -- | -- | -- | 0.002 | -- | -- | |
| | 5701 | | 314 | 8.3 | -- | -- | -- | -- | -- | 0.18 | -- | |
| | | 29S/28E-30A01 | | M | | | | | | | | |
| 05/08/74 | 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 210 | 7.8 | -- | -- | -- | -- | -- | 0.22 | -- | |
| | | 29S/28E-30F02 | | M | | | | | | | | |
| 06/12/74 | 5701 | | | 67 F | | -- | -- | -- | 0.004 | -- | -- | |
| | 5701 | | 302 | 7.4 | -- | -- | -- | -- | -- | 0.31 | -- | |
| | | 29S/28E-30G01 | | M | | | | | | | | |
| 04/17/74 | 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 328 | 7.8 | -- | -- | -- | -- | -- | 0.28 | -- | |
| | | 29S/28F-30H02 | | M | | | | | | | | |
| 04/17/74 | 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- | |
| | 5701 | | 215 | 7.6 | -- | -- | -- | -- | -- | 0.20 | -- | |
| | | 29S/28E-30Q02 | | M | | | | | | | | |
| 08/12/74 | 5701 | | | 68 F | | -- | -- | -- | 0.004 | -- | -- | |
| | 5701 | | 295 | 7.5 | -- | -- | -- | -- | -- | 0.14 | -- | |

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

| SAMP LAB | DEPTH | DISCH EC | TEMP PH | ALUMINUM | CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY BERYLLIUM | BISMUTH COBALT | GALLIUM GERMANIUM | LITHIUM MOLYBDENUM | NICKEL STRONTIUM | TITANIUM VANADIUM | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | 29S/28E-30D04 M | | | | | | | | | | |
| 74 5701 | | | 68 F | | -- | -- | -- | 0.004 | -- | -- | |
| 5701 | | 291 | 7.4 | -- | -- | -- | -- | -- | 0.14 | -- | |
| | 29S/28E-31B02 M | | | | | | | | | | |
| 74 5701 | | | 68 F | | -- | -- | -- | 0.008 | -- | -- | |
| 5701 | | 289 | 7.5 | -- | -- | -- | -- | -- | 0.26 | -- | |
| | 29S/28E-31B04 M | | | | | | | | | | |
| 74 5701 | | | 67 F | | -- | -- | -- | 0.000 | -- | -- | |
| 5701 | | 282 | 8.1 | -- | -- | -- | -- | -- | 0.28 | -- | |
| | 29S/28E-31B05 M | | | | | | | | | | |
| 74 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- | |
| 5701 | | 224 | 8.0 | -- | -- | -- | -- | -- | 0.16 | -- | |
| | 29S/28E-31F02 M | | | | | | | | | | |
| 74 5701 | | | 67 F | | -- | -- | -- | 0.002 | -- | -- | |
| 5701 | | 341 | 7.2 | -- | -- | -- | -- | -- | 0.22 | -- | |
| | 29S/28E-31J02 M | | | | | | | | | | |
| 74 5701 | | | 67 F | | -- | -- | -- | 0.001 | -- | -- | |
| 5701 | | 252 | 7.7 | -- | -- | -- | -- | -- | 0.17 | -- | |
| | 29S/28E-31K02 M | | | | | | | | | | |
| 74 5701 | | | 68 F | | -- | -- | -- | 0.010 | -- | -- | |
| 5701 | | 310 | 7.2 | -- | -- | -- | -- | -- | 0.25 | -- | |
| | 29S/28E-31Q03 M | | | | | | | | | | |
| 74 5701 | | | 68 F | | -- | -- | -- | 0.008 | -- | -- | |
| 5701 | | 418 | 7.4 | -- | -- | -- | -- | -- | 0.44 | -- | |
| | 29S/28E-32Q01 M | | | | | | | | | | |
| 74 5701 | | | 72 F | | -- | -- | -- | 0.000 | -- | -- | |
| 5701 | | 646 | 8.0 | -- | -- | -- | -- | -- | 0.46 | -- | |
| | 29S/28E-32L01 M | | | | | | | | | | |
| 74 5701 | | | 72 F | | -- | -- | -- | 0.004 | -- | -- | |
| 5701 | | 774 | 8.0 | -- | -- | -- | -- | -- | 0.62 | -- | |
| | 29S/28E-32N01 M | | | | | | | | | | |
| 74 5701 | | | 70 F | | -- | -- | -- | 0.007 | -- | -- | |
| 5701 | | 318 | 8.0 | -- | -- | -- | -- | -- | 0.36 | -- | |
| | 29S/28E-32R01 M | | | | | | | | | | |
| 74 5701 | | | 72 F | | -- | -- | -- | 0.008 | -- | -- | |
| 5701 | | 816 | 7.8 | -- | -- | -- | -- | -- | 1.24 | -- | |
| | 29S/28E-32R02 M | | | | | | | | | | |
| 74 5701 | | | 72 F | | -- | -- | -- | 0.004 | -- | -- | |
| 5701 | | 971 | 7.4 | -- | -- | -- | -- | -- | 1.06 | -- | |
| | 29S/28E-34J01 M | | | | | | | | | | |
| 74 5701 | | | 78 F | | -- | -- | -- | 0.016 | -- | -- | |
| 5701 | | 2448 | 7.6 | -- | -- | -- | -- | -- | 3.20 | -- | |
| | 29S/28E-35E03 M | | | | | | | | | | |
| 74 5701 | | | 78 F | | -- | -- | -- | 0.005 | -- | -- | |
| 5701 | | 758 | 8.0 | -- | -- | -- | -- | -- | 0.68 | -- | |
| | 30S/27E-01B02 M | | | | | | | | | | |
| 74 5701 | | | 67 F | | -- | -- | -- | 0.002 | -- | -- | |
| 5701 | | 204 | 7.7 | -- | -- | -- | -- | -- | 0.34 | -- | |
| | 30S/27E-01G02 M | | | | | | | | | | |
| 74 5701 | | | 68 F | | -- | -- | -- | 0.022 | -- | -- | |
| 5701 | | 613 | 7.3 | -- | -- | -- | -- | -- | 0.61 | -- | |
| | 30S/27E-01J01 M | | | | | | | | | | |
| 74 5701 | | | 68 F | | -- | -- | -- | 0.004 | -- | -- | |
| 5701 | | 256 | 7.7 | -- | -- | -- | -- | -- | 0.42 | -- | |

TABLE E-3 (Continued)

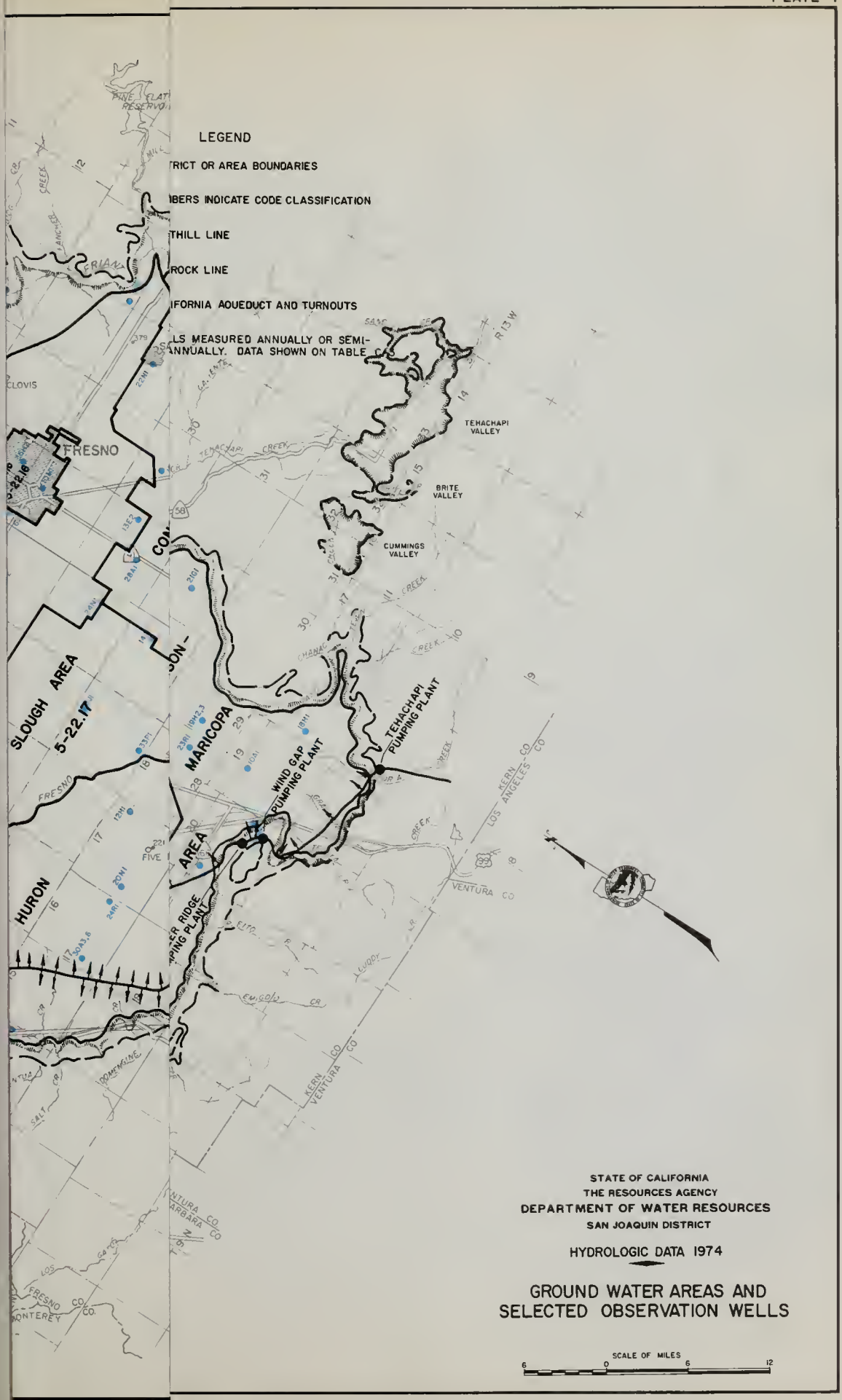
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

| DATE TIME | SAMP LAB | DEPTH | DISCH FC | TEMP PH | ALUMINUM | CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY BERYLLIUM | BISMUTH COBALT | GALLIUM GERMANIUM | LITHIUM MOLYBDENUM | NICKEL STRONTIUM | TITANIUM VANADIUM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | |
| | | 30S/27E-01K01 | | M | | | | | | | |
| 04/17/74 | 5701 | | | 67 F | | -- | -- | -- | 0.008 | -- | -- |
| | 5701 | | 361 | 7.4 | -- | -- | -- | -- | -- | 0.56 | -- |
| | | 30S/27E-01M01 | | M | | | | | | | |
| 04/17/74 | 5701 | | | 68 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 242 | 7.8 | -- | -- | -- | -- | -- | 0.18 | -- |
| | | 30S/27E-02A01 | | M | | | | | | | |
| 05/08/74 | 5701 | | | 66 F | | -- | -- | -- | 0.011 | -- | -- |
| | 5701 | | 289 | 7.4 | -- | -- | -- | -- | -- | 0.24 | -- |
| | | 30S/27E-02A02 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 66 F | | -- | -- | -- | 0.005 | -- | -- |
| | 5701 | | 264 | 7.7 | -- | -- | -- | -- | -- | 0.31 | -- |
| | | 30S/27E-02F01 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 66 F | | -- | -- | -- | 0.008 | -- | -- |
| | 5701 | | 304 | 7.4 | -- | -- | -- | -- | -- | 0.32 | -- |
| | | 30S/27E-02H01 | | M | | | | | | | |
| 09/05/74 | 5701 | | | 66 F | | -- | -- | -- | 0.003 | -- | -- |
| | 5701 | | 332 | 7.4 | -- | -- | -- | -- | -- | 0.16 | -- |
| | | 30S/27E-02R01 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 67 F | | -- | -- | -- | 0.000 | -- | -- |
| | 5701 | | 186 | 8.0 | -- | -- | -- | -- | -- | 0.22 | -- |
| | | 30S/27E-11G02 | | M | | | | | | | |
| 06/12/74 | 5701 | | | 66 F | | -- | -- | -- | 0.006 | -- | -- |
| | 5701 | | 237 | 7.6 | -- | -- | -- | -- | -- | 0.24 | -- |
| | | 30S/27E-11G01 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 66 F | | -- | -- | -- | 0.010 | -- | -- |
| | 5701 | | 286 | 7.7 | -- | -- | -- | -- | -- | 0.26 | -- |
| | | 30S/27E-11M02 | | M | | | | | | | |
| 04/25/74 | 5701 | | | 64 F | | -- | -- | -- | 0.008 | -- | -- |
| | 5701 | | 264 | 7.7 | -- | -- | -- | -- | -- | 0.21 | -- |
| | | 30S/27E-12C01 | | M | | | | | | | |
| 09/05/74 | 5701 | | | 66 F | | -- | -- | -- | 0.013 | -- | -- |
| | 5701 | | 452 | 7.1 | -- | -- | -- | -- | -- | 0.23 | -- |
| | | 30S/27E-12L02 | | M | | | | | | | |
| 05/08/74 | 5701 | | | 68 F | | -- | -- | -- | 0.012 | -- | -- |
| | 5701 | | 406 | 7.4 | -- | -- | -- | -- | -- | 0.30 | -- |
| | | 30S/27E-12R01 | | M | | | | | | | |
| 09/05/74 | 5701 | | | 68 F | | -- | -- | -- | 0.007 | -- | -- |
| | 5701 | | 260 | 7.4 | -- | -- | -- | -- | -- | 0.12 | -- |
| | | 30S/27E-13H01 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 67 F | | -- | -- | -- | 0.004 | -- | -- |
| | 5701 | | 285 | 7.8 | -- | -- | -- | -- | -- | 0.25 | -- |
| | | 30S/27E-13H02 | | M | | | | | | | |
| 01/16/74 | 5701 | | | 66 F | | -- | -- | -- | 0.004 | -- | -- |
| | 5701 | | 277 | 7.7 | -- | -- | -- | -- | -- | 0.22 | -- |
| | | 30S/27E-23C02 | | M | | | | | | | |
| 06/12/74 | 5701 | | | 64 F | | -- | -- | -- | 0.010 | -- | -- |
| | 5701 | | 318 | 7.7 | -- | -- | -- | -- | -- | 0.30 | -- |
| | | 30S/27E-23C03 | | M | | | | | | | |
| 06/12/74 | 5701 | | | 64 F | | -- | -- | -- | 0.008 | -- | -- |
| | 5701 | | 314 | 7.7 | -- | -- | -- | -- | -- | 0.30 | -- |
| | | 30S/27E-23C04 | | M | | | | | | | |
| 03/20/74 | 5701 | | | 64 F | | -- | -- | -- | 0.008 | -- | -- |
| | 5701 | | 305 | 7.8 | -- | -- | -- | -- | -- | 0.26 | -- |
| | | 30S/27E-23D01 | | M | | | | | | | |
| 05/08/74 | 5701 | | | 66 F | | -- | -- | -- | 0.012 | -- | -- |
| | 5701 | | 333 | 7.6 | -- | -- | -- | -- | -- | 0.30 | -- |
| | | 30S/27E-23D02 | | M | | | | | | | |
| 06/12/74 | 5701 | | | 64 F | | -- | -- | -- | 0.010 | -- | -- |
| | 5701 | | 309 | 7.6 | -- | -- | -- | -- | -- | 0.30 | -- |

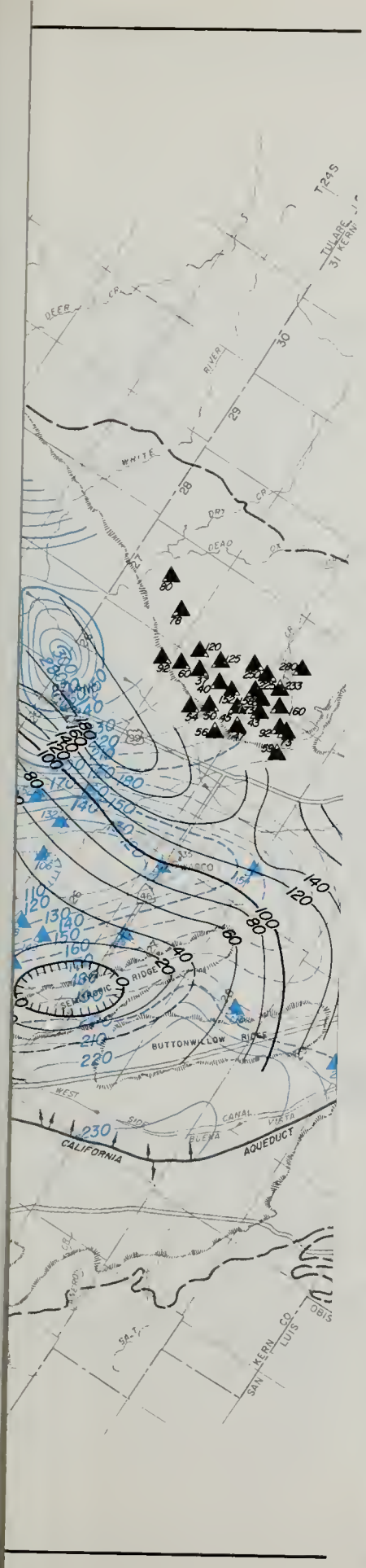
TABLE E-3 (Continued)

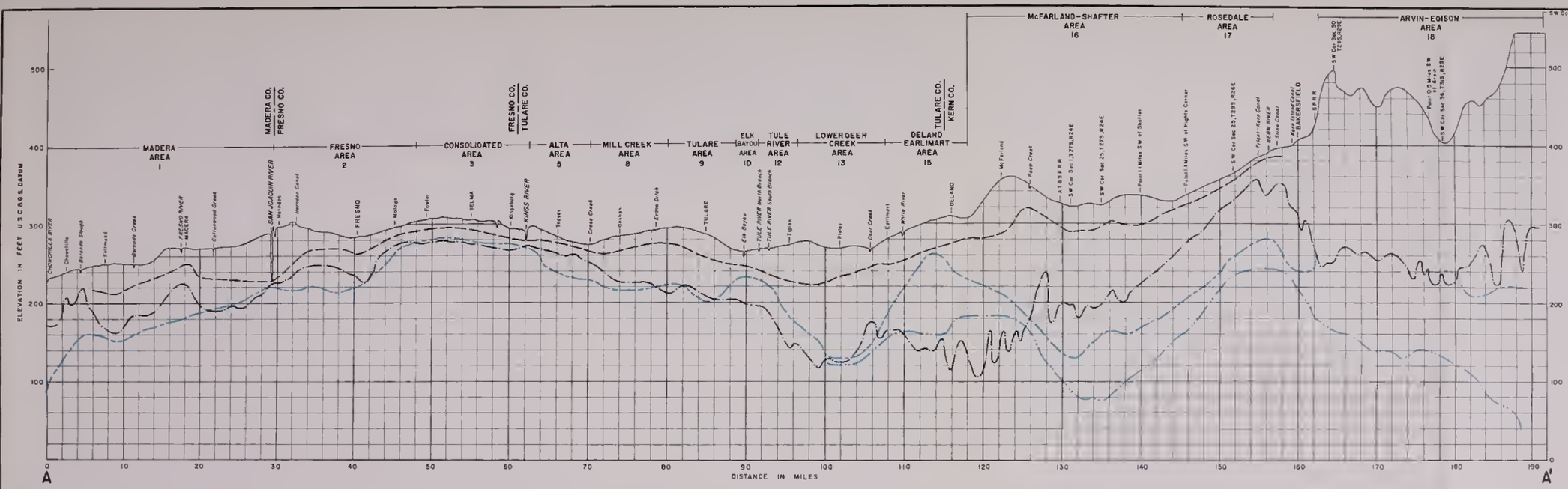
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

| TE ME | SAMP LAB | DEPTH | DISCH EC | TEMP PH | ALUMINUM | CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY PERYLLIUM | BISMUTH COBALT | GALLIUM GERMANIUM | LITHIUM MOLYBDENUM | NICKEL STRONTIUM | TITANIUM VANADIUM | REM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CENTRAL VALLEY SAN JOAQUIN VALLEY | | | | | | | | |
| | | 30S/28E-05R01 | | M | | | | | | | | |
| 4/74 | 5701 | | | 68 F | | -- | -- | -- | 0.004 | -- | -- | |
| | 5701 | | 358 | 7.3 | -- | -- | -- | -- | -- | 0.29 | -- | |
| | | 30S/28E-05C01 | | M | | | | | | | | |
| 2/74 | 5701 | | | 68 F | | -- | -- | -- | 0.020 | -- | -- | |
| | 5701 | | 526 | 7.8 | -- | -- | -- | -- | -- | 0.54 | -- | |
| | | 30S/28E-05E01 | | M | | | | | | | | |
| 6/74 | 5701 | | | 67 F | | -- | -- | -- | 0.007 | -- | -- | |
| | 5701 | | 405 | 7.4 | -- | -- | -- | -- | -- | 0.36 | -- | |
| | | 30S/28E-05F01 | | M | | | | | | | | |
| 4/74 | 5701 | | | 56 F | | -- | -- | -- | 0.006 | -- | -- | |
| | 5701 | | 351 | 7.4 | -- | -- | -- | -- | -- | 0.34 | -- | |
| | | 30S/28E-05K01 | | M | | | | | | | | |
| 4/74 | 5701 | | | 68 F | | -- | -- | -- | 0.010 | -- | -- | |
| | 5701 | | 607 | 7.2 | -- | -- | -- | -- | -- | 0.56 | -- | |
| | | 30S/28E-05N01 | | M | | | | | | | | |
| 4/74 | 5701 | | | 68 F | | -- | -- | -- | 0.004 | -- | -- | |
| | 5701 | | 231 | 7.7 | -- | -- | -- | -- | -- | 0.15 | -- | |
| | | 30S/28E-06C02 | | M | | | | | | | | |
| 8/74 | 5701 | | | 68 F | | -- | -- | -- | 0.012 | -- | -- | |
| | 5701 | | 388 | 7.2 | -- | -- | -- | -- | -- | 0.38 | -- | |
| | | 30S/28E-06C03 | | M | | | | | | | | |
| 7/74 | 5701 | | | 67 F | | -- | -- | -- | 0.008 | -- | -- | |
| | 5701 | | 385 | 7.2 | -- | -- | -- | -- | -- | 0.38 | -- | |
| | | 30S/28E-06G02 | | M | | | | | | | | |
| 2/74 | 5701 | | | 66 F | | -- | -- | -- | 0.008 | -- | -- | |
| | 5701 | | 413 | 7.5 | -- | -- | -- | -- | -- | 0.21 | -- | |
| | | 30S/28E-06M01 | | M | | | | | | | | |
| 4/74 | 5701 | | | 67 F | | -- | -- | -- | 0.006 | -- | -- | |
| | 5701 | | 315 | 7.2 | -- | -- | -- | -- | -- | 0.34 | -- | |
| | | 30S/28E-07B01 | | M | | | | | | | | |
| 2/74 | 5701 | | | 68 F | | -- | -- | -- | 0.014 | -- | -- | |
| | 5701 | | 324 | 7.6 | -- | -- | -- | -- | -- | 0.28 | -- | |
| | | 30S/28E-07C01 | | M | | | | | | | | |
| 2/74 | 5701 | | | 68 F | | -- | -- | -- | 0.007 | -- | -- | |
| | 5701 | | 372 | 7.3 | -- | -- | -- | -- | -- | 0.18 | -- | |
| | | 30S/28E-07E01 | | M | | | | | | | | |
| 0/74 | 5701 | | | 67 F | | -- | -- | -- | 0.013 | -- | -- | |
| | 5701 | | 268 | 7.5 | -- | -- | -- | -- | -- | 0.28 | -- | |
| | | 30S/28E-08B01 | | M | | | | | | | | |
| 8/74 | 5701 | | | 70 F | | -- | -- | -- | 0.014 | -- | -- | |
| | 5701 | | 664 | 7.7 | -- | -- | -- | -- | -- | 0.47 | -- | |
| | | 30S/28E-08H02 | | M | | | | | | | | |
| 4/74 | 5701 | | | 71 F | | -- | -- | -- | 0.004 | -- | -- | |
| | 5701 | | 314 | 7.0 | -- | -- | -- | -- | -- | 0.22 | -- | |
| | | 30S/28E-18B01 | | M | | | | | | | | |
| 5/74 | 5701 | | | 70 F | | -- | -- | -- | 0.007 | -- | -- | |
| | 5701 | | 400 | 7.7 | -- | -- | -- | -- | -- | 0.19 | -- | |
| | | 30S/28E-18E01 | | M | | | | | | | | |
| 0/74 | 5701 | | | 67 F | | -- | -- | -- | 0.010 | -- | -- | |
| | 5701 | | 301 | 7.7 | -- | -- | -- | -- | -- | 0.26 | -- | |
| | | 30S/28E-18K01 | | M | | | | | | | | |
| 8/74 | 5701 | | | 68 F | | -- | -- | -- | 0.013 | -- | -- | |
| | 5701 | | 386 | 7.6 | -- | -- | -- | -- | -- | 0.46 | -- | |


LEGEND
TRICT OR AREA BOUNDARIES
BERS INDICATE CODE CLASSIFICATION
THILL LINE
ROCK LINE
IFORNIA AQUEDUCT AND TURNOUTS
LS MEASURED ANNUALLY OR SEMI-
ANNUALLY. DATA SHOWN ON TABLE
CLOVIS
FRESNO
SLOUGH AREA
5-22.17
HURON
MARICOPA
AREA
TEHACHAPI VALLEY
BRITE VALLEY
CUMMINGS VALLEY
TEHACHAPI PUMPING PLANT
WIND GAP PUMPING PLANT
VENTURA CO
KERN CO
LOS ANGELES CO
FRESNO CO
MONTEREY CO
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1974
GROUND WATER AREAS AND
SELECTED OBSERVATION WELLS
SCALE OF MILES
6 0 6 12

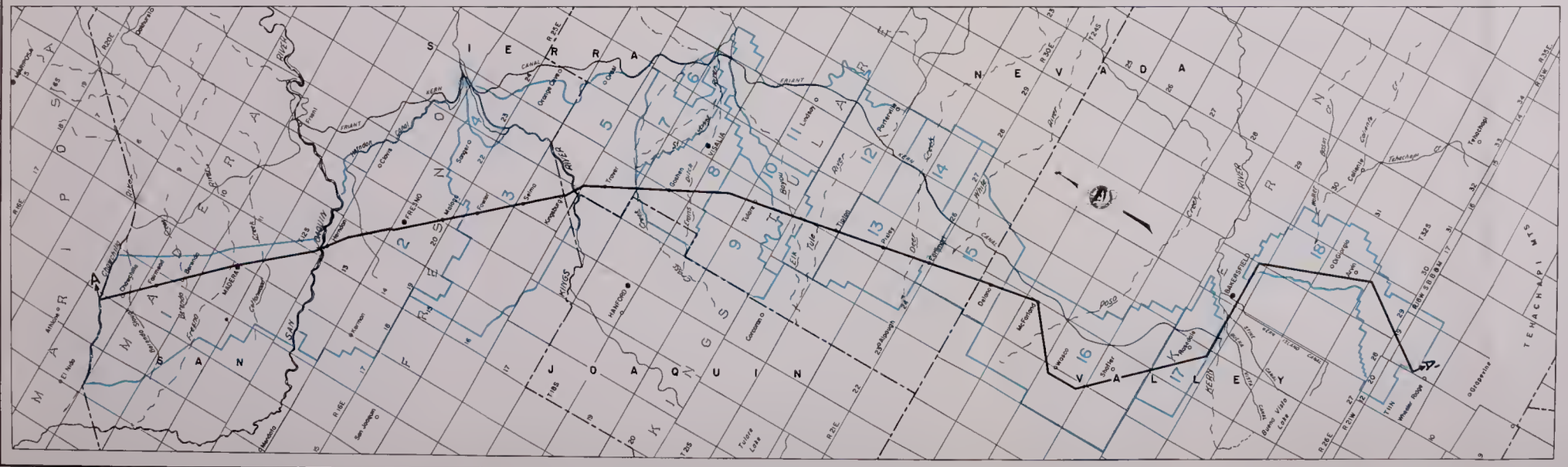
LEGEND
DISTRICT OR AREA BOUNDARIES
5-22.00 NUMBERS INDICATE CODE CLASSIFICATION
FOOTHILL LINE
BEDROCK LINE
CALIFORNIA AQUEDUCT AND TURNOUTS
WELLS MEASURED ANNUALLY OR SEMI-ANNUALLY DATA SHOWN ON TABLE
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1974
GROUND WATER AREAS AND SELECTED OBSERVATION WELLS
SCALE OF MILES
FRESNO
MODESTO
WESTSIDE
OAKDALE I.D. 5-22.06
MODESTO I.D. 5-22.07
TURLOCK I.D. 5-22.08
MERCED I.D. 5-22.09
MERCED BOTTOMS 5-22.54
CHOWCHILLA W.D. 5-22.12
MADERA I.D. 5-22.13
WEST CHOWCHILLA-MADERA AREA 5-22.14
FRESNO I.D. 5-22.15
FRESNO SLOUGH AREA 5-22.17
CONSOLIDATED I.D. 5-22.18
ALTA I.D. 5-22.19
ORANGE COVE I.D. 5-22.21
LOWER KINGS RIVER AREA 5-22.20
KAWEAH DELTA W.C.D. 5-22.24
TULARE I.D. 5-22.25
LOWER TULE RIVER I.D. 5-22.30
PIXLEY I.D. 5-22.33
DELANO-EARLIMART I.D. 5-22.35
SOUTHERN SAN JOAQUIN M.U.D. 5-22.36
NORTH KERN W.S.D. 5-22.37
SHAFTER-WASCO I.D. 5-22.38
CORCORAN I.D. 5-22.46
ALPAUGH-ALLENSWORTH AREA 5-22.34
SEMITROPIC W.S.D. 5-22.43
TULARE LAKE-LOST HILLS AREA 5-22.45
KERN RIVER DELTA AREA 5-22.40
CORCORAN-MARICOPA AREA 5-22.41
McKITTRICK AREA 5-22.44
AVENAL
SAN LUIS CANAL CO. 5-22.49
POSO R.C.D. 5-22.48
MENDOTA-DELTA AREA
MENDOTA
HURON AREA 5-22.47
SOUTH BAY AQUEDUCT
CALIFORNIA AQUEDUCT
COASTAL BRANCH
SAN LUIS DAM
SAN LUIS RESERVOIR
DELTA PUMPING PLANT
SOUTH BAY PUMPING PLANT
DIXIE VALLEY
LOS BANOS VALLEY
PANOCHE VALLEY
TEHACHAPI VALLEY
BRITE VALLEY
CUYAMA VALLEY


T24S
TULARE
31 KERN
DEER CR
RIVER
WHITE
DRY CR
DEAD
OX
WASCO
SEMITROPIC RIDGE
BUTTONWILLOW RIDGE
WEST SIDE CANAL
BUENA VISTA
CALIFORNIA AQUEDUCT
KERN CO
SAN LUIS OBIS




HISTORIC DATA PRESENTED IN FIGURE C-1 FOR FOLLOWING 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 McFARLAND-SHAFTER
17 ROSEDALE
18 ARVIN-EDISON




LEGEND

- GROUND WATER AREA BOUNDARIES
- GROUND WATER LEVEL FALL 1921
- GROUND WATER LEVEL FALL 1951
- GROUND WATER LEVEL SPRING 1974, UNCONFINED AQUIFER
- GROUND WATER LEVEL SPRING 1974, PRESSURE SURFACE
- GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1974

# MAP OF SELECTED GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951 & 1974

SCALE OF MILES

STOCKTON
MODESTO
FRESNO
EXPLANATION
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1974
LINES OF EQUAL ELEVATION
OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1974

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