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The Resources Agency

Department of Water Resources

BULLETIN No. 130-75

HYDROLOGIC DATA: 1975

Volume IV: SAN JOAQUIN VALLEY

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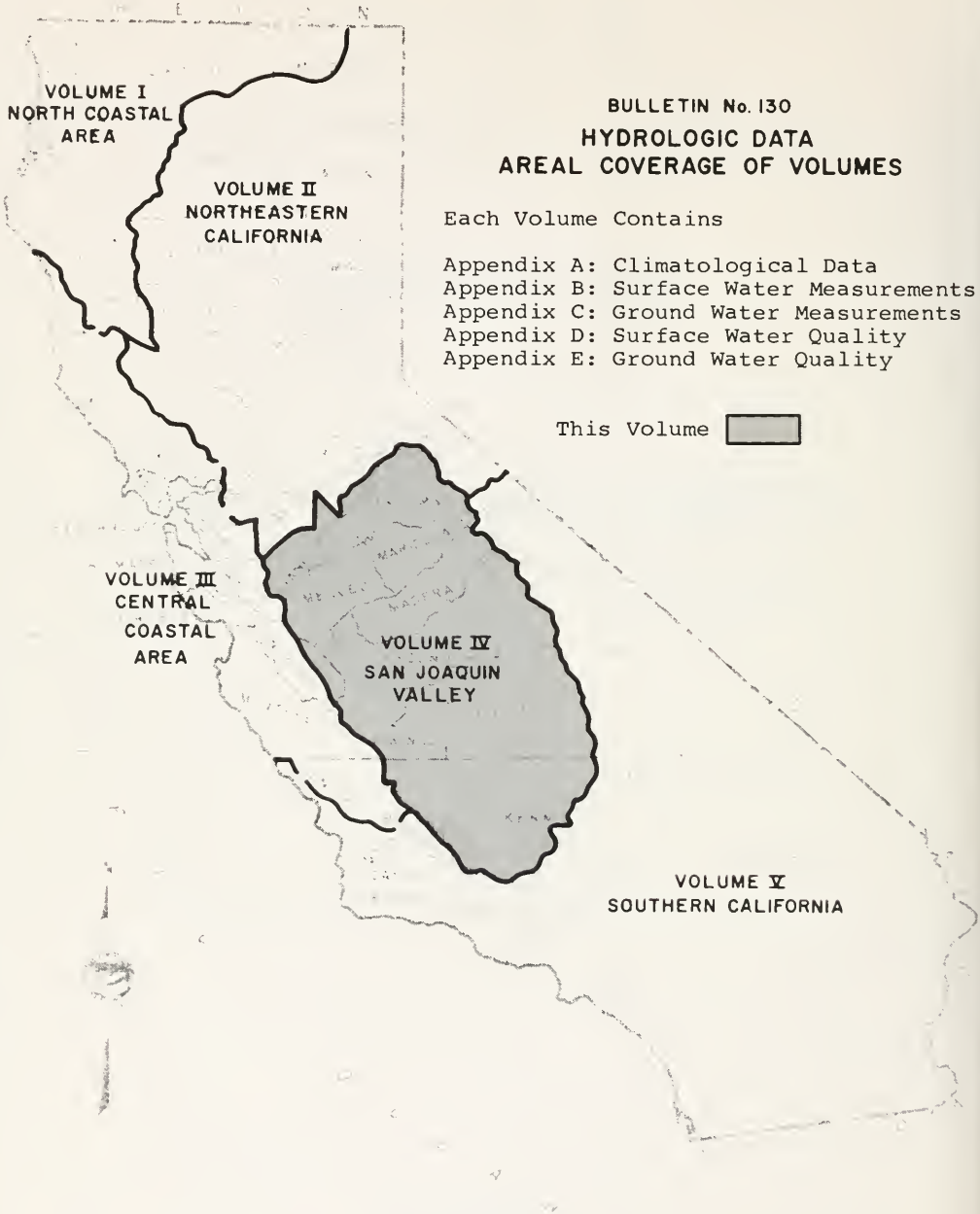
OCTOBER 1976

CLAIRE T. DEDRICK
Secretary for Resources
The Resources Agency

EDMUND G. BROWN JR.
Governor
State of California

RONALD B. ROBIE
Director
Department of Water Resources



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. 130-75 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 has been published annually in five volumes since 1963. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

This Bulletin No. 130-75 is the last of this series to be published. It is to be replaced with a statewide Bulletin 130, "Hydrologic Data Index", which will show what data are available and where they may be obtained.

Ronald B. Robie

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

CONVERSION FACTORS

English to Metric System of Measurement

Quantity	English unit	Multiply by	To get metric equivalent
Length	inches (in)	25.4	millimetres (mm)
		.0254	metres (m)
	feet (ft)	.3048	metres (m)
	miles (mi)	1.6093	kilometres (km)
Area	square inches (in^2)	6.4516×10^{-4}	square metres (m^2)
	square feet (ft^2)	.092903	square metres (m^2)
	acres	4046.9	square metres (m^2)
		.40469	hectares (ha)
		.40469	square hectometres (hm^2)
		.0040469	square kilometres (km^2)
	square miles (mi^2)	2.590	square kilometres (km^2)
Volume	gallons (gal)	3.7854	litres (l)
		.0037854	cubic metres (m^3)
	million gallons (10^6 gal)	3785.4	cubic metres (m^3)
	cubic feet (ft^3)	.028317	cubic metres (m^3)
	cubic yards (yd^3)	.76455	cubic metres (m^3)
	acre-feet (ac-ft)	1233.5	cubic metres (m^3)
		.0012335	cubic hectometres (hm^3)
		1.233×10^{-6}	cubic kilometres (km^3)
Volume/Time (Flow)	cubic feet per second (ft^3/s)	28.317	litres per second (l/s)
		.028317	cubic metres per second (m^3/s)
	gallons per minute (gal/min)	.06309	litres per second (l/s)
		6.309×10^{-5}	cubic metres per second (m^3/s)
	million gallons per day (mgd)	.043813	cubic metres per second (m^3/s)
Mass	pounds (lb)	.45359	kilograms (kg)
	tons (short, 2,000 lb)	.90718	tonne (t)
		907.18	kilograms (kg)
Power	horsepower (hp)	0.7460	kilowatts (kW)
Pressure	pounds per square inch (psi)	6894.8	pascal (Pa)
Temperature	Degrees Fahrenheit (°F)	$\frac{tF - 32}{1.8} = tC$	Degrees Celsius (°C)

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1 Ground Water Areas and Selected Observation Wells

2 Map of Selected Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951 and 1975

3 Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1975

4. Lines of Equal Change of Water Levels in Wells, Pressure Surface and Unconfined Aquifers, San Joaquin Valley, Spring 1970 to Spring 1975

State of California
EDMUND G. BROWN JR., Governor

The Resources Agency
CLAIRE T. DEDRICK, Secretary for Resources

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Environmental Quality Branch
Water Resources Evaluation Section

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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
Kings County Water District

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 1974-75 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 stations. Plates show lines of equal elevation of water in wells, spring 1975; 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, 1974, to September 30, 1975, 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.

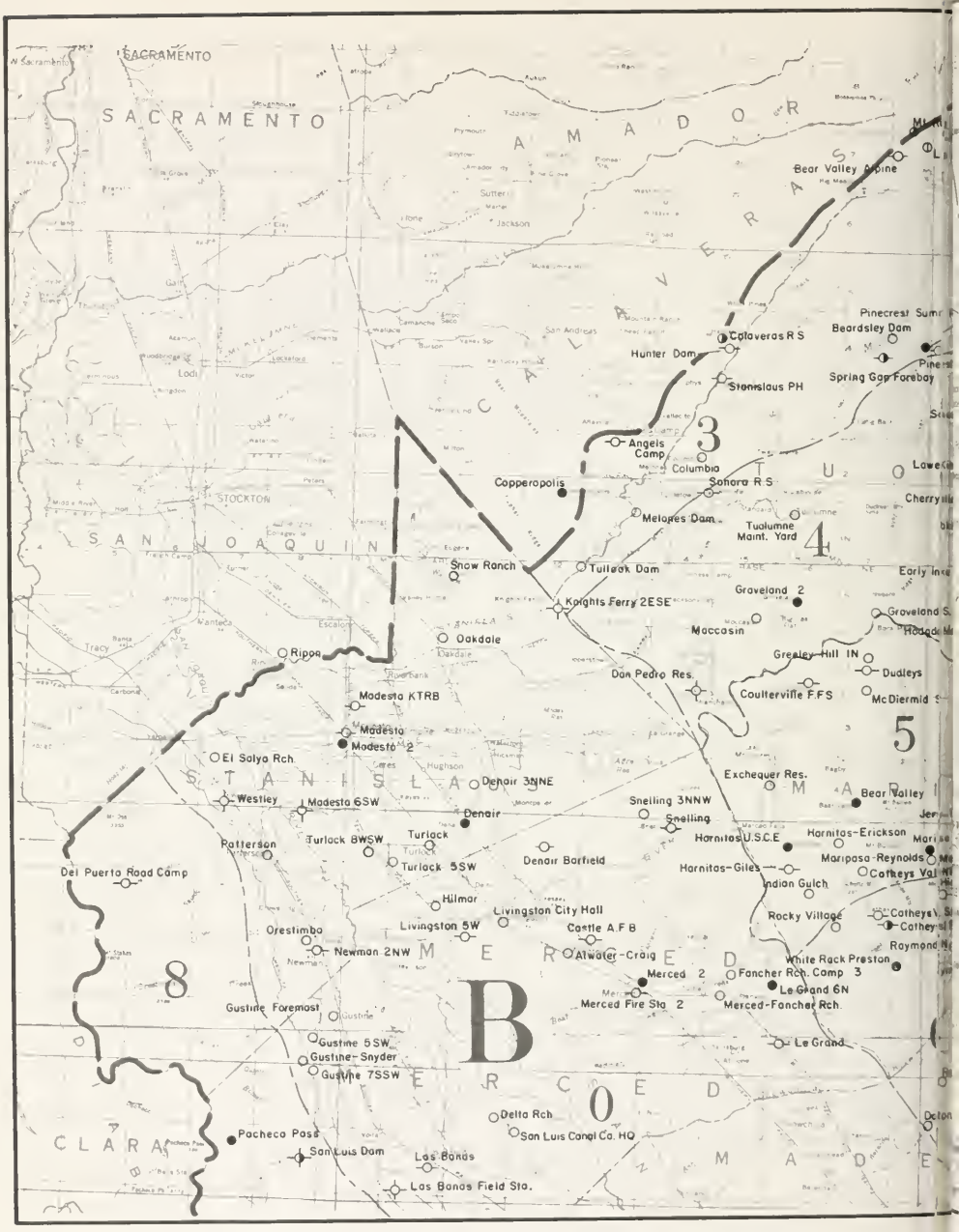
Table A-2 presents monthly precipitation data on 162 of the stations shown in the index.

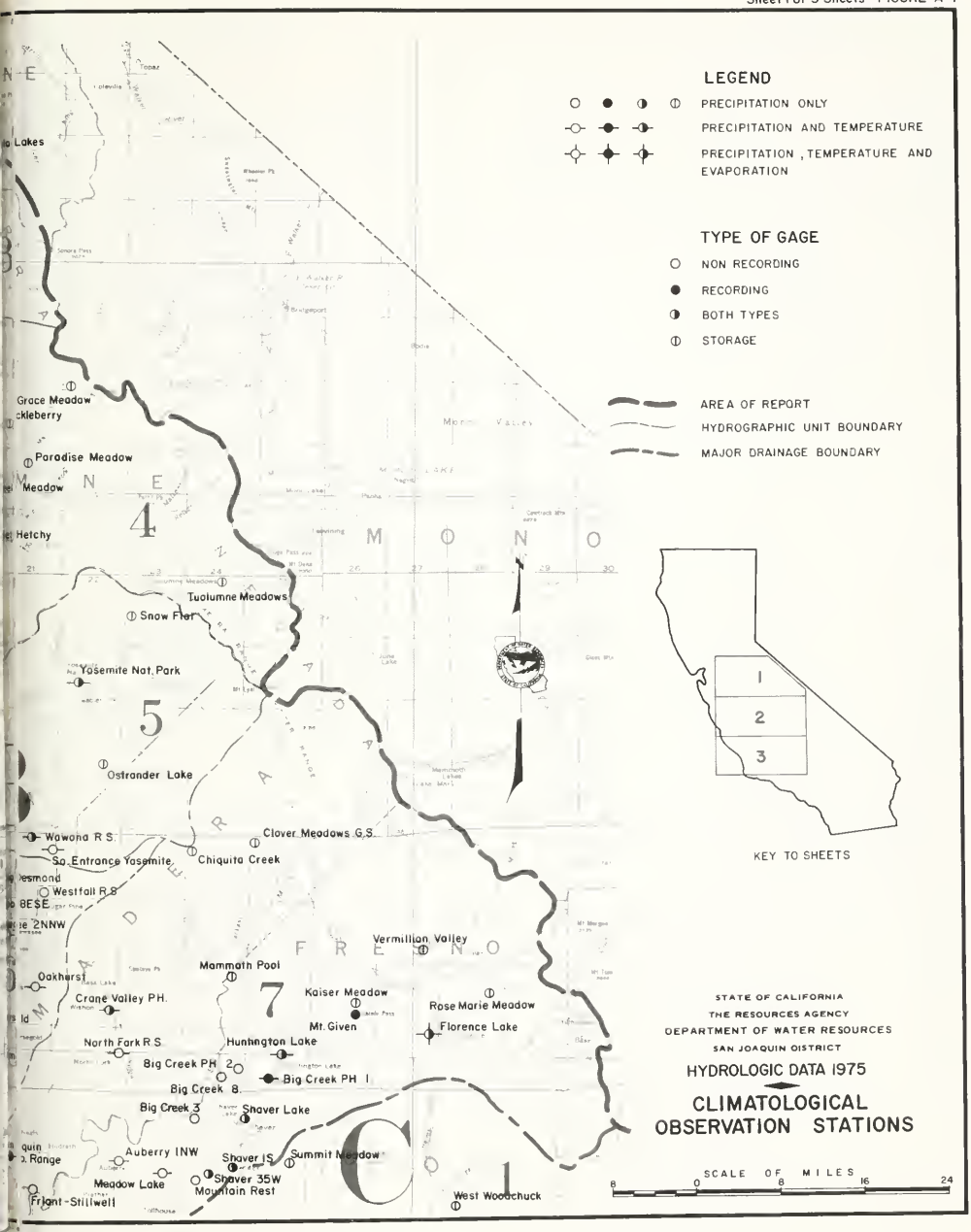
Table A-3 presents storage gage precipitation data.

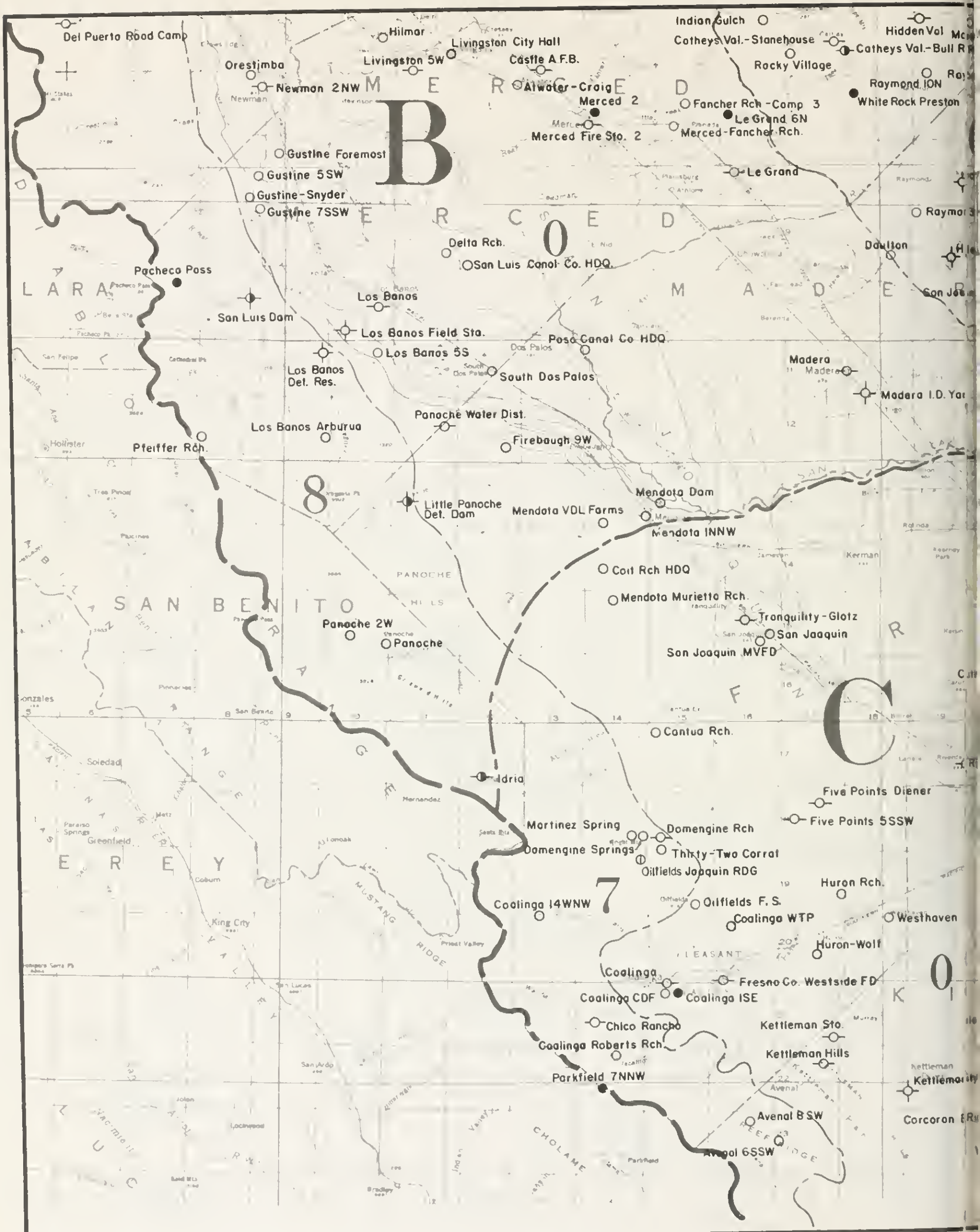
Precipitation data for stations shown in the index as still active and not published in this appendix are either published by the National Weather Service, or were not available at time of this publication.

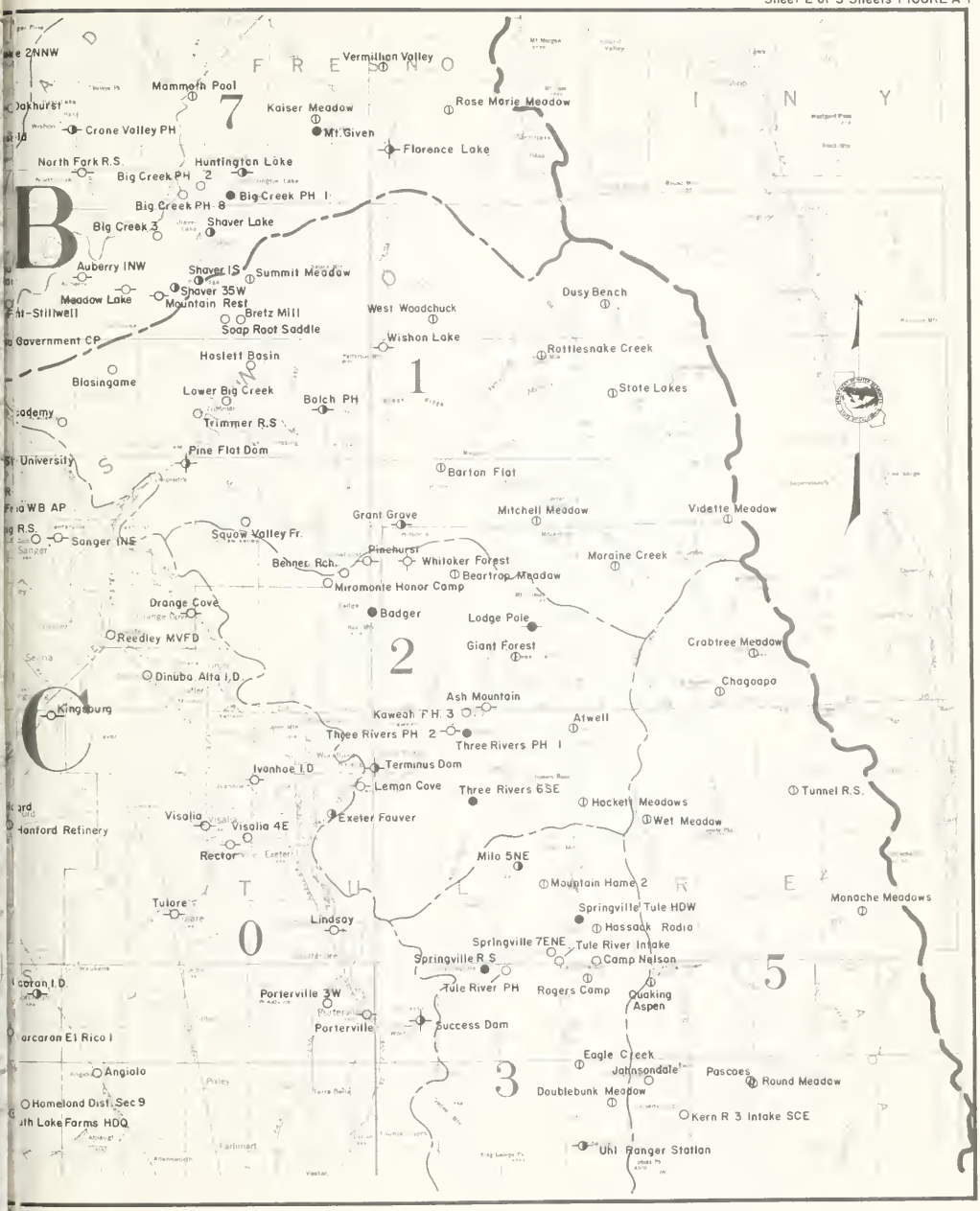
Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

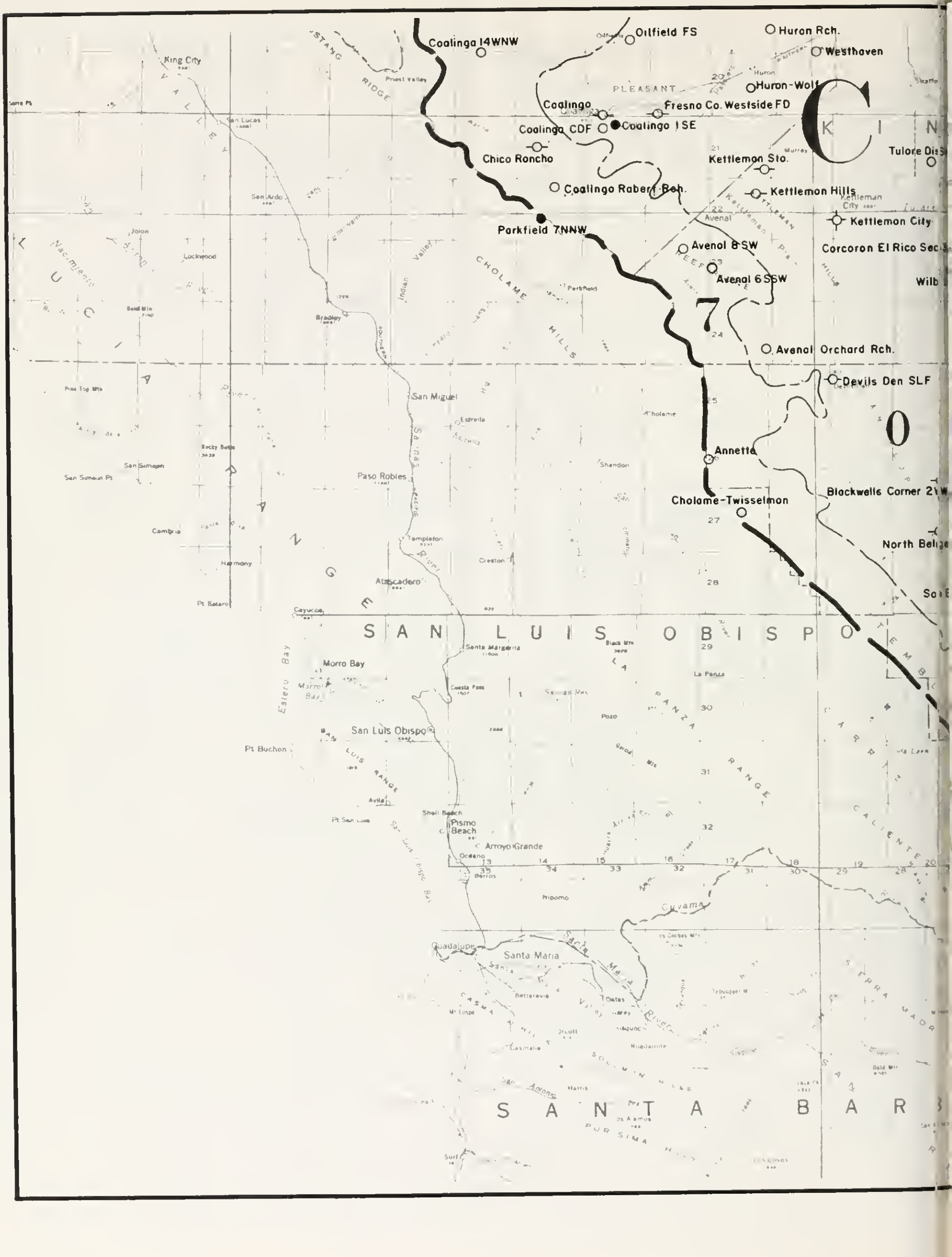
HYDROGRAPHIC AREA B SAN JOAQUIN RIVER BASIN	HYDROGRAPHIC AREA C TULARE LAKE DRAINAGE BASIN
B0 - San Joaquin Valley Floor	C0 - Tulare Lake Valley Floor
B3 - Stanislaus River	C1 - Kings River
B4 - Tuolumne River	C2 - Kaweah River
B5 - Merced River	C3 - Tule River
B6 - Fresno-Chowchilla Rivers	C4 - Greenhorn 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


SACRAMENTO
SACRAMENTO
AMADOR
CALAVERAS
Bear Valley Alpine
Pinecrest Sumr
Beardsley Dam
Calaveras R S
Hunter Dam
Stanislaus PH
Spring Gap Forebay
Angels Camp
Columbia
Sonora R S
Tuolumne Maint. Yard
Copperopolis
Melones Dam
STOCKTON
SAN JOAQUIN
Snow Ranch
Tulloch Dam
Knights Ferry 2ESE
Graveland 2
Maccasin
Oakdale
Ripon
Greeley Hill 1N
Dudleys
Don Pedro Res.
Coulterville F.F.S
McDiermid
Modesto KTRB
Modesto
Modesto 2
El Salvo Rch.
STANISLAUS
Denair 3NNE
Exchequer Res.
Bear Valley
Westley
Modesto 6SW
Denair
Snelling 3NNW
Snelling
Hornitos U.S.C.E.
Hornitos-Erickson
Patterson
Turlock 8WSW
Turlock
Turlock 5SW
Denair Barfield
Mariposa-Reynolds
Cotheys Val
Hornitos-Giles
Indian Gulch
Del Puerto Road Camp
Hilmar
Livingston City Hall
Rocky Village
Cotheys
Livingston 5W
Castle A.F.B.
Orestimbo
Newman 2NW
MERCED
Atwater-Craig
Raymond
White Rock Preston
Merced 2
Fancher Rch. Comp 3
Le Grand 6N
Merced Fire Sta 2
Merced-Fancher Rch.
Gustine Foremost
Gustine 5SW
Gustine-Snyder
Gustine 7SSW
Le Grand
Delta Rch
San Luis Canal Co. HQ
Pacheco Pass
San Luis Dam
Las Banos
Las Banos Field Sta.
CLARA
MADERA
3
4
5
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 1975
CLIMATOLOGICAL OBSERVATION STATIONS
SCALE OF MILES
8 0 8 16 24
Grace Meadow
Paradise Meadow
Hetchy
Tuolumne Meadows
Snow Flat
Yosemite Nat. Park
Ostrander Lake
Wawona R.S.
So. Entrance Yosemite
Chiquita Creek
Clover Meadows G.S.
Westfall R.S.
Vermillion Valley
Mammath Pool
Oakhurst
Crane Valley P.H.
Kaiser Meadow
Rose Marie Meadow
Mt. Given
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek P.H. 2
Big Creek P.H. 1
Big Creek 8
Big Creek 3
Shaver Lake
Auberry INW
Shaver IS
Summit Meadow
Shaver 35W
Mountain Rest
Meadow Lake
Friant-Stillwell
West Woodchuck
Mono Valley
Bridgeport
4
5
7
M O N O
F R E S N O
C O L


Del Puerto Road Camp
Hilmar
Livingston City Hall
Livingston 5W
Castle A.F.B.
Indian Gulch
Catheys Val.-Stonehouse
Catheys Val.-Bull R
Hidden Val
Rocky Village
Raymond 10N
White Rock Preston
Orestimba
Newman 2NW
Atwater-Craig
Merced 2
Merced Fire Sta. 2
Fancher Rch-Comp 3
Le Grand 6N
Merced-Fancher Rch.
Le Grand
Gustine Foremost
Gustine 5SW
Gustine-Snyder
Gustine 7SSW
B
M E R C E D
Raymond 3
Delta Rch.
San Luis Canal Co. HDQ.
Dan Luis Dam
Pacheco Pass
Los Banos
San Luis Dam
Los Banos Field Sta.
Los Banos 5S
Los Banos Det. Res.
Poso Canal Co HDQ.
South Dos Palos
Madera
Madera I.D. Yar
Dos Palos
Panoche Water Dist.
Los Banos Arburua
Pfeiffer Rch.
Firebaugh 9W
Mendota Dam
Little Panoche Det. Dam
Mendota VDL Farms
Mendota INNW
8
Coit Rch HDQ
Mendota Murietta Rch.
Tranquility-Glotz
San Joaquin
San Joaquin MVFD
SAN BENITO
Panoche 2W
Panoche
Contua Rch.
C
Idria
Five Points Diener
Five Points 5SSW
Martinez Spring
Domengine Rch
Domengine Springs
Thirty-Two Corral
Oilfields Joaquin RDG
Huron Rch.
7
Coalinga 14WNW
Oilfields F.S.
Coalinga WTP
Westhaven
Huron-Wolf
Coalinga
Fresno Co. Westside FD
Coalinga CDF
Coalinga ISE
Chico Rancho
Kettleman Sta.
Coalinga Roberts Rch.
Kettleman Hills
Parkfield 7NNW
Kettleman City
Avenal 8SW
Corcoran
Avenal 6SSW
Hollister
Gonzales
Soledad
Greenfield
King City
MUSTANG RIDGE
CHOLAME
PANOCHE HILLS


F R E S N O
I N Y
Vermillion Valley
Mammoth Pool
Kaiser Meadow
Rose Marie Meadow
Mt. Given
Crane Valley PH
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek PH 2
Big Creek PH I
Big Creek PH 8
Big Creek 3
Shaver Lake
Auberry INW
Shaver IS
Summit Meadow
Shaver 35W
Meadow Lake
Mountain Rest
Bretz Mill
Soap Root Saddle
West Woodchuck
Dusy Bench
Wishon Lake
Rattlesnake Creek
Hoslett Basin
Blasingame
Lower Big Creek
Balch PH
State Lakes
Trimmer R.S
Pine Flat Dam
Barton Flat
Mitchell Meadow
Vidette Meadow
Grant Grove
Squaw Valley Fr.
Sanger INE
Pinehurst
Whitaker Forest
Moraine Creek
Beartrap Meadow
Miramonte Honor Camp
Orange Cove
Badger
Lodge Pole
Reedley MVFD
Giant Forest
Crabtree Meadow
Dinuba Alta I.D
Chagoapa
Kingsburg
Ash Mountain
Kaweah PH 3
Atwell
Three Rivers PH 2
Three Rivers PH I
Ivanhoe I.D
Terminus Dam
Lemon Cove
Three Rivers 6SE
Hockett Meadows
Tunnel R.S.
Visalia
Visalia 4E
Exeter Fauver
Wet Meadow
Hanford Refinery
Rector
Milo 5NE
Mountain Home 2
Tulare
Springville Tule HDW
Monache Meadows
Lindsay
Hassack Radio
Springville 7ENE
Tule River Intake
Camp Nelson
Springville R.S.
Tule River PH
Rogers Camp
Quaking Aspen
Porterville 3W
Porterville
Success Dam
Eagle Creek
Johnsondale
Pascoes
Round Meadow
Angiola
Doublebunk Meadow
Homeland Dist. Sec 9
Kern R 3 Intake SCE
Uhl Ranger Station


Coalinga 14WNW
Oilfield FS
Huron Rch.
Westhaven
Huron-Wolf
Coalinga
Fresno Co. Westside FD
Coalinga CDF
Coalinga 1SE
Chico Roncho
Kettlemon Sta.
Coalinga Robert Rch.
Kettlemon Hills
Kettlemon City
Parkfield 7NNW
Avenal 8SW
Corcoron El Rico Sec
Avenal 6SSW
Avenal Orchard Rch.
Devils Den SLF
Tulore
Annette
Cholame-Twisselmon
Blackwells Corner
North Belridge
7
C
K
N
O
King City
San Lucas
San Ardo
Bradley
San Miguel
Paso Robles
Templeton
Atascadero
Cambria
Harmony
Cayucos
Morro Bay
San Luis Obispo
Pt Buchon
Pismo Beach
Arroyo Grande
Santa Maria
Guadalupe
Nipomo
Cholame
Shandon
Creston
Santa Margarita
La Panza
Pozo
S A N L U I S O B I S P O
S A N T A B A R

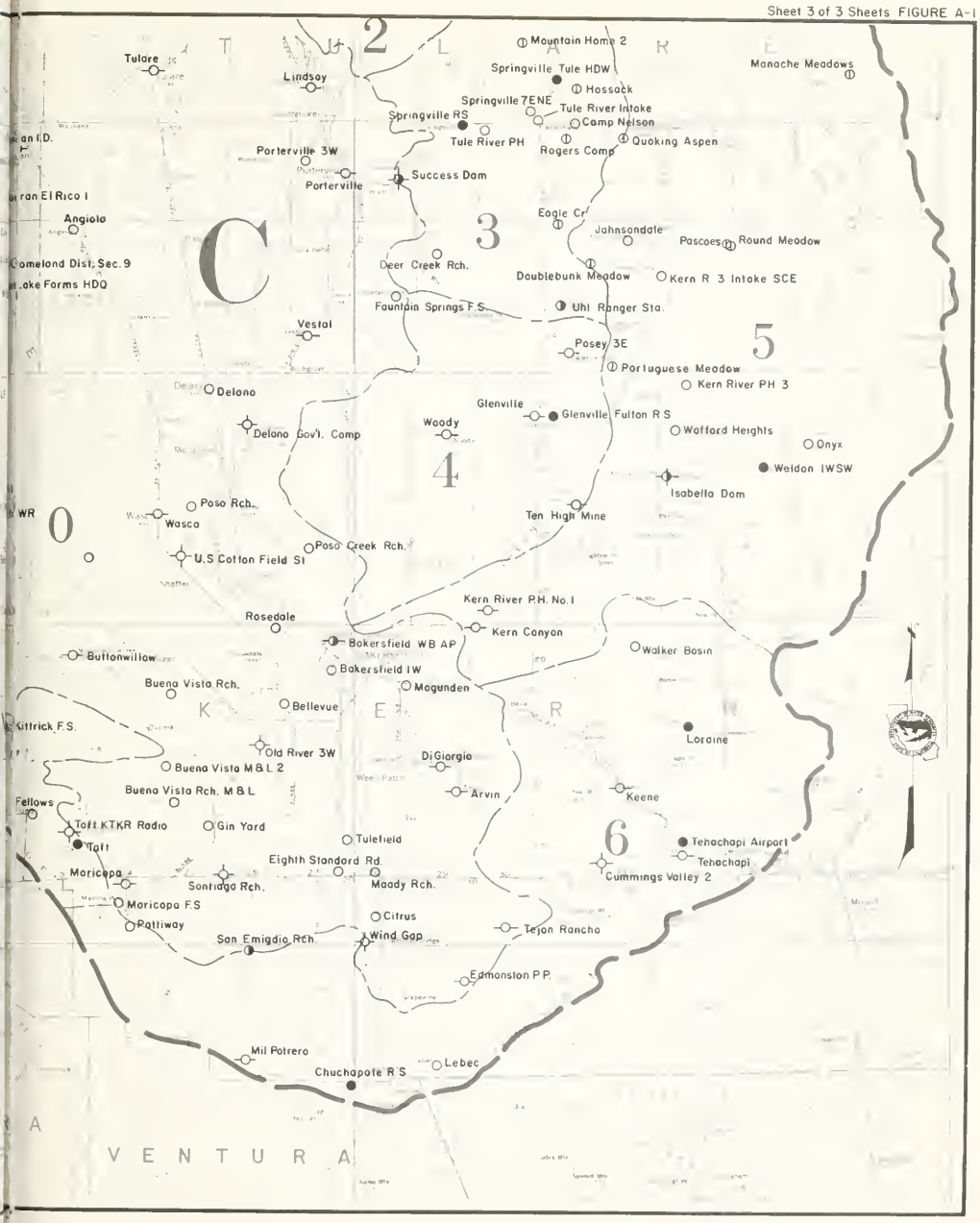

Tulare
Lindsay
Mountain Home 2
Springville Tule HDW
Hossack
Manache Meadows
Springville 7ENE
Tule River Intake
Springville RS
Camp Nelson
Tule River PH
Rogers Comp
Quaking Aspen
Porterville 3W
Porterville
Success Dam
Angiola
Eagle Cr
Johnsondale
Pascoes
Round Meadow
Comelond Dist. Sec. 9
Deer Creek Rch.
Doublebunk Meadow
Kern R 3 Intake SCE
Fountain Springs F.S.
Uhl Ranger Sta.
Vestal
Posey 3E
Portuguese Meadow
Kern River PH 3
Delano
Glenville
Glenville Fulton R S
Woody
Delano Gov'l. Comp
Wofford Heights
Onyx
Weldon 1WSW
Isabella Dam
Poso Rch.
Wasco
Ten High Mine
Poso Creek Rch.
U.S Cotton Field St
Kern River P.H. No. 1
Rosedale
Kern Canyon
Bakersfield WB AP
Walker Basin
Buttonwillow
Bakersfield 1W
Buena Vista Rch.
Magunden
Bellevue
Kittrick F.S.
Loraine
Old River 3W
DiGiorgio
Buena Vista M&L 2
Buena Vista Rch. M&L
Arvin
Keene
Fellows
Taft KTKR Radio
Gin Yard
Tulelield
Taft
Tehachapi Airport
Tehachapi
Eighth Standard Rd.
Maricopa
Santiago Rch.
Maody Rch.
Cummings Valley 2
Maricopa F.S
Pattiway
Citrus
San Emigdio Rch.
Wind Gap
Tejon Rancho
Edmonston P.P.
Mil Potrero
Lebec
Chuchapote R S
VENTURA

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	Pacific Gas and Electric 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	Department of Parks and Recreation
	805	Department of Fish and Game
	806	Department of Water Resources
	808	Division of Forestry
	809	Department of Transportation

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 agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the National Weather Service stations are the same as those used by the National Weather Service. The National 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 ° ' "	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	1974		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	1973		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			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			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
CO 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900		1876			15
CO 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904		1952			15
BB 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37	25	24	121	22	42	900		1958			50
BO 2375	DELTA RANCH	90	SEC 26	T09S	R11E		M	37	07	00	120	44	00	013		1949		01	24
BO 2389-05	DENAIR 3 NNE	137	SEC 20	T04S	R11E		M	37	34		120	47		900		1964			50
BO 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000		1965			24
CO 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	119	58	22	000		1959			15
CO 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35	15	08	118	51	00	000		1937			15
CO 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	D	M	36	32	32	119	23	30	000		1944			54
CZ 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36	20	24	120	21	30	000		1959	1972		10
CZ 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36	19	53	120	24	04	000		1958	1970		10
BA 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904		1940			55
CZ 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E		M	35	57	00	118	36	00	900		1955	1970		54
BS 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37	45	14	120	06	30	900		1909			22
CI 2577	DUSY BENCH	9470		T10S	R31E		M	37	06		118	35		900		1964			10
CZ 2591	EAGLE CREEK	6650		T22S	R31E		M	35	59		118	39		903		1964			54
BA 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37	52	30	119	57	25	401		1925			55
CO 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E		M	35	06	05	119	01	45	001		1963	1969		15
BO 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000		1953	1972		50
BO 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000		1944			39
BS 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900		1935			22
CO 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900		1938			54
BO 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000		1959			24
CZ 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000		1956			15
BO 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000		1934	1969		10
CO 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900		1942			10
CO 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	20	120	06	12	000		1933			10
BZ 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900		1940			10
CO 3207	FOUNTAIN SPRINGS F S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	808		1965			54
CO 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900		1899			10
CO 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	806		1963			10
BZ 3261	FRIANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36	59	00	119	43	00	900		1896			10
BZ 3261-05	FRIANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37	03	07	119	38	48	000		1965			20
CZ 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36	34	05	118	46	01	900		1921			54
CO 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002		1960			15
CA 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900		1951			15
CA 3465	GLENNVILLE FULTON R S	3500	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900		1940			15
BA 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E		M	38	09	00	119	36	00	900		1947	1970		55
CI 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900		1924			54
BS 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000		1965			22
BA 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900		1940			55
BA 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900		1940			55
BO 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000		1927			24
BO 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000		1930			24
BO 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000		1928			24
BO 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000		1958			24
CO 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900		1899	1970		16
CO 3749	HANFORD REFINERY	245	SEC 36	T18S	R21E	Q	M	36	18	59	119	39	10	000		1964			16
CI 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905		1960			10
BA 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	56	42	119	46	54	900		1910			55
BB 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000		1949			22
BZ 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900		1960			02
BO 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37	24	10	120	50	59	000		1948			24
CZ 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E		M	36	22	00	118	39	00	900		1959			54
BA 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E		M	37	48		119	52		907		1967			55
CO 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002		1952	1969		16
BS 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37	29	40	120	08	55	000		1955			22
BS 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37	28	10	120	14	00	000		1939			22
BS 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37	30	10	120	14	08	901		1960			22
CZ 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E		M	36	11	00	118	37	00	900		1959			54
BA 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E		M	38	06	00	119	45	00	900		1948	1971		55
BZ 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900		1950			05
BZ 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900		1915			10
CO 4188	HURON RANCH	335	SEC 22	T19S	R17E		M	36	15	41	120	06	05	000		1951			10
BB 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900		1918			35
BS 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	000		1952	1970		22
CS 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	P	M	35	38	46	118	28	45	903		1949			15
CO 4312	IVANHOE I D	370	SEC 36	T18S	R25E	R	M	36	24	15	119	12	21	000		1954			54
BS 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E		M	37	32	36	119	50		905		1958			22
CS 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 ° ' "	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	1974		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	1975		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
B4 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		05	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	1974		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

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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 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	1973		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	1975		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		02	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	1974		24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E		M	37	50	00	119	30	00	900		1947		01	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

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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 Weather 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	F	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	1974		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															
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	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	5680	SEC 12	T10S	R24E	C	M	37 04 55	119 19 05	806		1973			10
B7 8139-50	SHAVER 3 SW	4900	SEC 09	T10S	R24E	R	M	37 04 08	119 21 02	806		1973			10
C0 3257-30	FRESNO DWR	313	SEC 26	T13S	R20E	C	M	36 46 42	119 46 03	806		1968			10
C0 5151-30	LOST HILLS DWR	312	SEC 03	T27S	R21E		M	35 36 52	119 41 40	806		1973			15
C0 9724-60	WIND GAP	814	SEC 26	T11N	R20W		S	35 01 05	118 58 31	806		1974			15
B7 5893	MOUNTAIN REST	4100	SEC 17	T10S	R24E	R	M	37 03 18	119 22 12	905		1960			10
B6 6321-85	OAKHURST NO 2	2480	SEC 14	T07S	R21E	P	M	37 19 00	119 38 53	000		1969			10
B0 8322	SNOW RANCH	240	SEC 12	T01N	R10E	Q	M	37 57	120 49	000		1934			50
B5 8858-40	TENAYA LAKE	8150	SEC 21	T01S	R23E	B	M	37 50 14	119 27 00	800		1972			22
B4 8931-50	TIOGA PASS	10000	SEC 31	T01N	R25E	B	M	37 54 39	119 15 30	800		1972			55
B0 2389	DENAIR	122	SEC 06	T05S	R11E	R	M	37 31 20	120 47 40	000		1974			50
B7 8140-01	SHAVER LAKE	5373	SEC 13	T09S	R24E	K	M	37 08 48	119 18 08	004		1920			10
B3 5975-25	MT. REBA	7800	SEC 06	T07N	R18E	F	M	38 29 35	120 02 25	806		1970			02
C0 3257-15	FRESNO STATE UNIV.	340	SEC 12	T13S	R20E	B	M	36 49 18	119 44 27	806		1969			10
C0 4188-20	HURON-WOLF	400	SEC 22	T20S	R17E		M	36 10 52	120 07 10	000		1975			10

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	1974						1975									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 PL 80																	
CASTLE AFB	13.67	0.64	0.00	0.00	1.47	0.35	2.22	0.78	3.43	3.01	1.77	0.00	0.00	0.06	0.46	T	13.55
DELTA RCH	9.75	0.36	0.00	0.00	0.76	0.52	2.40	0.23	2.58	2.11	0.79	0.00	0.00	0.00	0.43	0.00	9.82
DENAIR	-	-	-	RB	1.58	0.60	1.89	0.62	2.86	2.36	1.37	0.00	0.00	0.00	0.54	0.00	11.82
DENAIR BARFIELD F S	12.27	0.69	0.00	0.00	1.32	0.40	2.33	0.57	2.55	3.06	1.35	0.00	0.00	0.00	0.00	0.05	11.63
FANCHER RCH CAMP #3	NR	-	NR	-	RE												
GUSTINE 5 SW	10.72	0.32	0.00	0.00	0.62	0.23	2.85	0.22	2.82	2.87	0.79	0.00	0.00	0.02	0.53	T	10.95
GUSTINE SNYDER	10.32	0.00	0.00	0.00	0.54	0.23	3.00	0.23	2.90	2.80	0.62	0.00	0.00	0.30	0.00	0.00	10.62
GUSTINE FOREMOST	11.86	0.37	0.00	0.00	0.74	0.04	2.85	0.77	2.01	4.59	0.49	0.00	0.00	0.00	0.58	0.00	12.07
GUSTINE 7 SSW	10.84	0.30	0.00	0.00	0.72	0.18	2.79	0.73	2.50	2.73	0.89	0.00	0.00	0.01	0.44	T	10.99
NILMAR	10.03	0.17	0.00	0.00	0.86	0.30	2.48	0.40	2.65	2.54	0.63	0.00	0.00	0.03	0.46	0.02	10.37
LE GRAND 6 N	13.69	0.07	0.00	0.00	1.34	1.02	2.11	0.65	4.13	3.19	1.18	0.00	0.00	0.00	0.40	0.08	14.10
LIVINGSTON CITY HALL	9.92	0.00	0.00	0.00	1.06	0.44	2.47	0.46	1.97	2.71	0.81	0.00	0.00	0.01	0.00	0.40	10.33
LIVINGSTON 5 W	9.66	0.35	0.00	0.00	0.70	0.49	1.47	0.23	2.89	2.63	0.90	0.00	0.00	0.00	0.45	0.02	9.78
LOS BANOS 5 S	8.71E	0.84	0.00	0.00	0.87	0.32	1.77	0.16	2.50E	1.45	0.80E	0.00	0.00	0.00	0.20E	0.00E	8.07E
LOS BANOS F S	8.84	0.40	0.00	0.00	0.67	0.43	2.10	0.12	2.45	1.69	0.98	0.00	0.00	0.04	0.22	0.01	8.71
MADERA I O	8.38	0.00	0.00	0.00	1.11	0.61	1.45	0.39	1.26	2.03	1.53	0.00	0.00	0.00	0.14	0.17	8.69
MENDOTA 1 NNW	6.03	T	0.00	0.00	0.90	0.32	1.29	0.13	1.35	1.14	0.90	0.00	0.00	0.00	0.13	0.07	6.23
MENDOTA VDL FARMS	5.47	0.17	0.00	0.00	1.04	0.25	1.02	0.09	1.34	0.81	0.75	0.00	0.00	0.04	0.17	0.33	5.84
MERCED FANCHER RCH	13.14	0.18	0.00	0.00	1.05	0.55	2.46	0.77	4.09	2.87	1.17	0.00	0.00	0.00	0.40	0.04	13.40
MODESTO 6 SW	8.93	0.64	0.00	0.00	0.71	0.33	2.23	0.16	2.78	0.59	1.47	0.00	0.02	0.01	0.91	0.01	9.22
MODESTO KTRB	NR	0.50E	0.00	0.00	RE												
OAKDALE	13.70	0.83	0.00	0.00	1.45	1.13	1.90	0.83	3.03	3.80	0.73	0.00	T	0.00	0.43	T	13.30
ORESTIMBA	10.96	0.25	0.00	0.00	0.65	0.22	2.68	0.47	2.38	1.34	0.97	0.00	0.00	0.00	0.67	0.15	11.53
PANOCHE WATER DIST	7.13	0.00	0.00	0.00	0.58	0.24	1.54	0.12	2.83	1.40	0.42	0.00	0.00	0.00	0.10	T	7.23
PATTERSON	11.16	0.63	0.00	0.00	0.56	0.27	2.78	0.20	2.17	3.56	0.99	0.00	0.00	0.00	0.68	0.01	11.22
POSO CANAL CO NO	8.45	0.25	0.00	0.00	0.59	0.85	1.71	0.21	2.70	1.78	0.36	0.00	0.00	0.00	0.28	0.01	8.49
RIPON	11.53	0.73	T	0.00	1.13	0.89	1.71	0.66	2.86	2.86	0.69	0.00	0.00	0.00	0.69	0.00	11.49
SAN LUIS CANAL CO HQ	8.51	0.45	0.00	0.00	0.81	0.43	1.77	0.13	2.36	1.90	0.66	0.00	0.00	0.00	0.47	0.04	8.57
SNELLING F S	15.35	0.34	0.00	0.00	0.39	0.93	2.36	0.82	4.84	3.94	1.31	0.42	0.00	T	0.61	0.00	15.62
SNELLING 3 WNW		0.25	0.00	0.00	RE												
SNOW RANCH	14.57E	0.00	0.00	0.00	*	*	3.50	1.33	3.73	4.38	1.63	0.00E	0.00E	0.00E	0.70E	0.00E	15.27E
SOUTH DOS PALOS	7.81	0.06	0.00	0.00	0.54	0.35	1.50	0.20	2.94	1.51	0.71	0.00	0.00	0.04	0.23	0.04	8.06
TURLOCK 5 SW	13.13	0.60	0.00	0.00	1.10	0.58	2.82	1.23	2.81	3.59	0.40	0.00	0.00	0.00	0.60	0.02	13.15
TURLOCK 8 WSW	11.93	0.40	0.00	0.00	0.88	0.30	2.18	0.58	2.52	4.02	1.05	0.00	0.00	0.00	0.75	0.00	12.28
WESTLEY	11.61	0.45	0.00	0.00	0.64	0.26	1.93	1.34	2.44	3.46	1.09	0.00	0.00	0.00	0.68	0.01	11.85
STANISLAUS RIVER 83																	
ANGELS CAMP	31.82	1.95	0.00	0.00	2.96	2.09	3.89	2.05	7.11	8.72	2.70	0.32	0.03	0.04	0.89	0.00	30.80
BEARDSLEY DAM	44.01	2.57	0.10	0.00	2.82	2.38	4.95	4.25	10.16	9.90	5.41	0.84	0.63	0.03	2.02	0.15	43.54
BEAR VALLEY - ALPINE	NR	1.82	0.00	0.02	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
COLOMBIA	36.86	1.68	0.00	0.00	3.53	2.13	3.61	3.82	8.30	8.94	4.24	0.55	0.06	0.04	0.77	0.01	36.00
COPPEROPOLIS	23.48E	1.49	0.00	0.00	2.10E	1.75	2.79	3.16	4.21	6.34	1.16	0.48	0.00	0.00	0.60	0.00	22.59
PINECREST STRAWBERRY	51.24	2.33	0.24	0.00	3.19	2.50	5.28	4.10	13.36	10.82	7.59	0.88	0.95	0.00	2.11	0.03	50.81
SPRING GAP FOREBAY	46.49	2.62	0.07	0.00	3.43	2.35	5.22	4.59	11.63	9.08	6.24	0.65	0.61	0.00	2.00	0.02	45.82
TULLOCH OAM	22.24	1.61	0.00	0.00	1.45	1.75	2.45	1.57	5.16	6.33	1.90	0.00	0.02	0.00	0.65	0.00	21.28
TUOLUMNE RIVER 84																	
DON PEDRO RES	20.56	0.52	0.00	0.00	1.91	1.22	2.89	1.60	5.26	5.16	1.78	0.17	0.05	0.05	0.61	0.00	20.70
EARLY INTAKE PH	39.45	1.80	0.00	0.00	3.09	1.68	4.62	3.21	10.68	9.28	5.06	0.70	0.33	T	1.13	0.05	39.83
HODGDON MEADOW	54.45	1.53	T	0.00	4.25	2.79	6.47	5.61	13.39	11.78	8.08	0.16	0.39	T	0.72	0.11	53.75
MOCCASIN	30.33	0.82	0.02	0.00	2.22	1.26	3.70	1.63	8.76	7.65	3.94	0.31	0.02	0.01	0.46	0.03	29.99
TUOLUMNE MAINT YARD	42.39	1.91	0.00	0.00	3.94	2.12	3.81	3.57	12.25	9.36	4.84	0.48	0.11	0.03	1.22	0.00	41.73
MERCED RIVER 85																	
BEAR VALLEY	29.66	0.72	0.16	0.00	3.36	1.18	4.00	3.01	8.78	6.82	2.13	0.00E	0.00E	0.00E	0.20E	0.00E	28.98
CATHEYS VALLEY 3 NNW	25.88	0.60	0.00	0.00	2.53	1.55	2.80	1.90	8.10	5.45	2.85	0.10	0.00	0.00	0.35	0.00	25.63
COULTERVILLE FFS	29.26	1.59	0.00	0.00	1.85	1.72	2.94	3.03	8.95	6.48	2.70	0.00	0.00	0.03	0.32	0.05	28.07
GREELEY HILL 1 N	43.09	1.40	0.00	0.00	3.77	1.59	5.77	3.76	11.73	9.69	5.08	0.15	0.15	0.06	0.73	0.12	42.60
HORNITOS ERICKSON RCH	23.55	0.51	0.00	0.00	1.88	1.23	3.06	2.15	6.50	5.42	2.76	0.04	0.00	0.00	0.00	0.00	23.04
HORNITOS GILES RCH	NR	NR	NR	NR	RE												
HORNITOS	18.94E	0.40E	0.00E	0.00E	1.14E	0.68	2.63	4.28	3.53	4.43	1.83	0.02E	0.00E	0.00E	0.00E	0.00E	18.54E
JERSEYDALE G S	46.50	0.91	0.00	0.00	1.95	2.82	5.74	3.68	13.61	11.11	6.13	0.51	0.04	0.00	0.39	0.13	46.11
MARIPOSA REYNOLDS	38.70	0.74	0.00	0.00	3.89	2.30	5.46	2.82	10.70	7.57	4.90	0.30	0.02	0.00	0.15	0.12	38.23
MARIPOSA R S	32.43E	0.60E	0.00E	0.00E	3.49	1.13	3.86	3.22	8.91	7.40	4.17	0.25E	0.00E	0.00E	0.10E	0.00E	32.53E
FRESNO-CHOWCHILLA R 86																	
AHWAHNEE 2 NNW	28.75	0.10	0.00	0.00	2.60	2.01	2.69	2.57	7.04	7.21	4.18	0.32	0.03	0.00	0.39	0.11	29.15
COARSEGOLD	28.74	0.11	0.00	0.00	2.56	1.98	4.09	2.43	6.35	7.43	3.47	0.32	0.00	0.00	0.57	0.08	29.28
DAULTON	12.13	0.00	0.00	0.00	1.19	0.82	2.13	0.79	2.36	3.07	1.94	0.00	0.00	0.00	T	0.15	12.45
HIDDEN VALLEY	34.38	0.64	0.00	0.00	2.95	1.36	4.88	3.52	9.21	7.39	4.15	0.22	0.06	0.00	0.18	0.17	34.09
MARIPOSA 8 ESE	33.75	0.34	0.00	0.00	2.78	2.40	3.59	2.64	9.40	8.54	3.66	0.38	0.02	0.00	0.20	0.00	33.61
OAKHURST	34.89E	0.10	0.00	0.00	2.50	1.48	5.10	4.14	7.77	8.90	4.60E	0.30E	0.00E	0.00E	0.36E	0.03E	35.18E
OAKHURST #2	33.73	0.05	0.00	0.00	3.05	1.64	5.47	3.13	6.98	8.27	4.82	0.32	0.00	0.00	0.42	0.04	34.14
RAYMOND 10 N	26.37	0.49	0.00	0.00	2.68	1.38	2.86	2.01	7.10	6.74	2.89	0.22	T	0.00	0.06	0.14	26.08
RAYMOND 12 NNE	22.71E	0.30E	0.00E	0.00E	2.71	0.20	0.50	2.25	6.02	6.09	4.27	0.37	0.00	0.00	0.07	0.17	22.65
TRIANGLE-OESMOND	NR	0.54	0.00	0.00	RE												
WHITE ROCK-PRESTON	19.41E	0.40E	0.00E	0.00E	1.96E	0.81	2.95	1.47	5.19	4.00	2.33	0.30E	0.00	0.00	0.00	0.20E	19.21
SAN JOAQUIN RIVER 87																	
BIG CREEK PH 1	36.33	0.13	0.00	0.00	3.43	1.87	5.60	2.81	6.73	9.27	5.46	0.91	0.12	0.00	0.99	0.46	37.65
BIG CREEK PH 2	34.21	0.06	0.00	0.00	3.61	1.99	5.15	2.50	6.45	8.95	4.82	0.68	0.00	0.00	0.75	0.32	35.22
BIG CREEK PH 3	27.03	0.05	0.00	0.00	3.20	1.56	3.12	2.07	5.02	7.72	3.97	0.32	0.00	0.00	0.43	0.04	27.45
BIG CREEK PH 8	28.79	0.02	0.00	0.00	3.62	1.58	3.87	2.85	5.32	7.86	3.23	0.44	0.00	0.00	0.54	0.19	29.50
CRANE VALLEY PH	41.79	0.22	0.00	0.00	4.03	2.26	4.95	3.30	11.58	10.11	4.96	0.38	0.00	0.00	0.60	0.08	42.25
FRIANT-STILLWELL	NR	0.00	0.00	0.00	NR	NR	NR	NR	NR	NR	NR	NR	HR	NR	NR	NR	NR
MOUNTAIN REST	33.74	0.00	0.00	0.00	3.48	2.42	4.36	2.47	6.99	9.76	4.14	0.12	0.00	0.00	0.12	0.00	33.86
SHAVER 1 S	47.22E	0.00	0.00	0.00	3.77	2.12	7.18	3.97E	10.00E	13.54	6.21	0.43	0.00	0.00	0.38E	0.21	47.81
SHAVER 3 SW	39.1	0.1	0.0	0.0	3.9	2.1	5.1	2.7	8.2	11.3	5.4	0.3	0.0	0.0	0.1	0.0	39.1
SHAVER LAKE	38.55	0.00	0.00	0.00	3.31	2.02	5.90	2.89	7.79	11.31	4.92	0.41	0.00	0.00	0.52	0.30	39.37
SAN JOAQUIN VALLEY - WESTSIDE 88																	
PANOCHE 2 W	11.93	0.10	0.00	0.00	0.80	0.30	2.39	0.18	4.85	2.40	0.91	0.00	0.00	0.03	0.32	0.02	12.20
PFEIFFER RCH	21.11E	0.30E	0.00E	0.00E	2.28	1.09	3.18	1.05	4.89	6.10	2.22	0.00	0.00	0.00	0.15	0.00	20.96

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1974						1975									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																	
ARVIN	6.50	0.13	0.00	0.00	0.79	0.37	0.75	0.00	1.30	0.98	1.61	0.00	0.00	0.00	0.08	0.13	6.08
AVENAL ORCHARD	6.03	0.00	0.00	0.00	0.58	0.42	1.38	0.00	1.88	1.35	0.42	0.00	0.00	0.00	T	0.04	6.07
BLACKWELLS CORNER 2 NW	3.30E	0.00	0.00	0.00	0.08	0.51	0.82E	0.00	1.21	0.44	0.24	0.00	0.00	0.00	0.00E	0.00E	3.30E
BUENA VISTA RCH M&L	4.67	0.00	0.00	0.00	0.54	0.67	1.03	0.00	1.04	0.80	0.59	0.00	0.00	0.00	0.00	0.02	4.69
BUENA VISTA RCH M&L 2	4.69	0.00	0.00	0.00	0.59	0.65	1.01	0.00	1.29	0.66	0.49	0.00	0.00	0.00	0.00	T	4.69
CANTUA RCH	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
COALINGA WTP	Inc.	0.00	0.00	0.00	0.34	0.32	1.52	0.04	NR	NR	NR	NR	NR	0.00	0.08	0.02	Inc.
COALINGA CDF	4.82	0.00	0.00	0.00	0.49	0.08	0.86	*	1.50	1.47	0.42	T	0.00	0.01	0.07	0.03	4.93
COIT RCH HQ	5.41	0.00	0.00	0.00	0.50	0.55	0.89	0.10	1.61	0.88	0.88	0.00	0.00	0.04	0.11	0.51	6.07
CORCORAN EL RICO 1	5.23	0.00	0.12	0.00	0.84	0.06	1.49	0.05	1.00	1.09	0.58	0.00	0.00	0.00	0.00	0.52	5.63
DELANO GOVT CAMP	6.44	0.00	0.00	0.00	1.50	0.40	0.85	0.08	1.59	1.01	1.01	0.00	0.00	0.00	0.00	0.02	6.46
DEVILS DEN SLF	5.51	0.00	0.00	0.00	0.45	0.36	1.87	0.00	1.32	0.89	0.62	0.00	0.00	0.00	T	0.17	5.68
DI GIORGIO	6.98	T	0.00	0.00	1.88	0.49	0.89	0.04	1.41	0.77	1.50	T	0.00	0.00	0.18	0.05	7.21
DINUBA ALTA I D	8.27	0.06	0.00	0.00	1.37	0.29	1.54	0.61	1.68	1.97	0.75	0.00	0.00	0.00	0.01	0.03	8.25
FIVE POINTS DIENER	4.13	0.06	0.00	0.00	0.39	0.08	1.23	0.07	0.76	1.45	0.09	0.00	0.00	T	0.12	0.03	4.22
FOUNTAIN SPRINGS FS	7.75	0.00	0.00	0.00	1.18	0.67	1.04	0.47	2.62	1.02	0.75	0.00	0.00	0.00	0.00	0.00	7.75
FRESNO CO WESTSIDE FD	4.51	0.00	0.00	0.00	0.29	0.06	1.13	T	0.86	1.37	0.80	0.00	0.00	0.01	0.04	0.02	4.58
FRESNO DWR	7.52	0.00	0.00	0.00	1.20	0.40	1.38	0.64	0.98	2.29	0.61	0.02	0.00	T	0.05	0.08	7.65
FRESNO STATE UNIV	8.84	0.00	0.00	0.00	1.41	0.56	1.59	0.92	1.28	2.42	0.66	0.00	0.00	0.00	0.05	0.08	8.97
GIN YARD	4.44	0.00	0.00	0.00	0.70	0.70	1.03	0.00	0.96	0.81	0.24	0.00	0.00	0.00	0.00	T	4.44
HANFORD REFINERY	6.64	0.00	T	0.00	1.31	0.19	1.55	0.11	1.78	1.07	0.63	0.00	0.00	0.00	T	2.35	8.99
HURON RCH	3.44	0.00	0.00	0.00	0.32	0.04	1.05	0.07	0.64	1.12	0.20	0.00	0.00	0.00	0.00	0.00	3.44
HURON-WOLF	4.91E	0.00E	0.00E	RB	0.37	0.31	1.38	0.06	0.98	1.22	0.59	0.00	0.00	0.00	0.04	0.08	5.03
IVANHOE I D	9.98	T	0.00	0.00	1.96	1.15	1.71	0.56	1.74	2.06	0.80	0.00	0.00	0.00	0.00	0.07	10.05
KETTLEMAN CITY	4.84	0.00	0.00	0.00	0.34	0.03	1.10	0.02	1.25	1.59	0.51	0.00	0.00	0.00	0.28	0.24	5.36
KETTLEMAN HILLS	5.67	0.00	0.00	0.00	0.72	0.15	1.09	0.06	0.81	1.21	1.63	0.00	0.00	0.00	0.00	0.04	5.71
KINGSBURG	6.65	0.00	0.00	0.00	1.32	0.27	1.29	0.17	1.34	1.49	0.77	0.00	0.00	0.00	0.06	0.34	7.05
LOST HILLS DWR	3.94	0.00	0.00	0.00	0.70	0.10	1.31	0.03	1.27	0.42	0.11	0.00	0.00	0.00	0.00	0.00	3.94
MAGUNDEN	5.82	0.00	0.00	0.00	0.90	0.58	0.86	0.13	1.56	0.64	1.15	0.00	0.00	0.00	0.07	0.00	5.89
MENDOTA MURIETTA RCH	4.51	0.02	0.00	0.00	0.27	0.44	0.89	0.13	1.34	0.75	0.67	0.00	0.00	T	0.15	0.06	4.70
NORTH BELRIDGE	5.20	0.00	0.00	0.00	0.90	0.53	1.46	0.00	0.99	0.97	0.35	0.00	0.00	0.00	T	0.09	5.29
OILFIELD FS	6.36	0.00	0.00	0.00	0.68	0.11	1.78	0.16	1.25	1.77	0.61	0.00	0.00	0.02	0.06	0.29	6.73
PORTERVILLE 3 W	8.28	0.00	0.00	0.00	1.47	0.77	1.67	0.32	1.51	1.97	0.57	0.00	0.00	0.00	0.00	0.00	8.28
RECTOR	8.42	0.00	0.00	0.00	1.53	1.00	1.56	0.37	1.38	1.87	0.71	T	0.00	0.00	0.00	0.03	8.45
REEDLEY MVFD	9.14	0.00	0.00	0.00	1.74	0.63	1.61	0.60	1.54	2.27	0.75	0.00	0.00	0.00	0.04	0.52	9.70
RIVERDALE	6.06	0.00	0.00	0.00	0.99	0.10	1.15	0.16	0.88	2.19	0.59	0.00	0.00	0.00	0.05	0.08	6.19
SANGER 1 NE	8.67	0.00	0.00	0.00	1.50	0.63	1.31	0.49	2.14	2.04	0.56	0.00	0.00	0.00	0.06	0.10	8.83
SANGER RS	8.81	0.04	0.00	0.00	1.60	0.55	1.67	0.39	1.36	2.54	0.66	0.00	0.00	0.00	0.05	0.12	8.94
SAN JOAQUIN	4.63	0.00	0.00	0.00	0.71	0.28	1.10	0.08	0.93	1.09	0.44	0.00	0.00	0.00	0.23	0.07	4.93
SOUTH BELRIDGE	4.29	0.00	0.00	0.00	0.67	0.28	1.14	0.00	0.97	0.75	0.48	0.00	0.00	0.00	0.01	0.00	4.30
SOUTH LAKE FARMS HQ	4.84	T	0.00	0.00	0.53	0.18	1.33	0.00	1.26	0.73	0.81	0.00	0.00	0.00	T	0.06	4.90
TRANQUILLITY GLOTZ	4.63	0.03	0.00	0.00	0.55	0.25	1.09	0.10	1.08	1.17	0.36	0.00	0.00	T	0.12	T	4.72
TULARE	7.01	0.00	0.00	0.00	1.12	0.39	1.62	0.23	1.41	1.41	0.83	0.00	0.00	0.00	0.00	0.09	7.10
U S COTTONFIELD STA	4.94	0.02	0.00	0.00	1.11	0.18	1.12	0.08	1.34	0.51	0.58	T	0.00	0.00	0.02	0.01	4.95
VESTAL	6.95	0.00	0.00	0.00	1.02	0.81	1.01	0.16	1.90	1.41	0.64	0.00	0.00	0.00	0.00	0.06	7.01
WILBUR DITCH	3.81	0.00	0.00	0.00	0.58	0.20	1.32	0.00	0.99	0.72	0.00	0.00	0.00	0.00	0.18	0.12	4.11
WIND GAP	7.41	0.00	0.08	0.00	1.20	0.85	0.96	T	1.23	1.66	1.43	0.00	0.00	0.00	0.23	0.19	7.75
KINGS RIVER C1																	
BLASINGAME	20.76	0.00	0.00	0.00	2.37	1.56	3.10	1.67	4.37	5.69	2.00	0.00	T	0.00	0.05	0.10	20.91
MITCHELL MEADOW	37.50	0.00E	0.00E	0.00E	1.50	1.10	5.50	3.00	9.00	11.00	6.50	0.00	0.00	0.00	0.00	0.00	37.50
PINEHURST R S	27.95	0.04	0.00	0.00	3.20	1.11	3.91	2.28	5.87	8.00	3.20	0.05	0.29	0.00	0.02	0.41	28.34
SQUAW VALLEY-FRESNO	18.43	0.00	0.00	0.00	2.02	2.25	2.73	1.63	5.56	4.11	0.13	0.00	0.00	0.00	0.06	0.00	18.49
STATE LAKE	30.00	0.00E	0.00E	0.00E	0.50	2.00	4.50	1.50	7.00	9.00	4.00	1.00	0.50	0.00	0.00	0.00	30.00
TRIMMER R S	24.95	0.04	0.00	0.00	2.31	1.83	3.14	1.98	5.14	7.91	2.60	0.00	0.00	0.00	0.07	0.00	24.98
WEST WOODCHUCK	41.50	0.00E	0.00E	0.00E	1.50	0.50	6.50	4.00	11.00	10.50	6.00	1.00	0.50	0.00	0.00	0.00	41.50
WISHON LAKE	41.47	0.39	0.63	0.00	2.27	1.45	5.14	2.88	11.24	10.06	5.95	1.46	0.00	0.00	0.75	0.10	41.30
KAWEAH RIVER C2																	
KAWEAH PH 3	Inc.	0.00	0.00	0.00	2.20	0.21	RE										
MIRAMONTE H C	22.90	T	0.00	0.00	2.96	1.18	2.37	1.88	5.07	6.76	2.68	T	0.00	0.00	0.01	0.06	22.97
TERMINUS DAM	12.82	T	0.00	0.00	1.79	1.75	1.57	0.86	2.53	3.10	1.20	0.02	0.00	T	T	0.05	12.87
WHITAKER FOREST	37.08	0.22	0.00	0.00	3.19	1.18	5.27	3.07	8.22	11.20	4.04	0.61	0.08	T	0.44	0.50	37.80
TULE RIVER C3																	
SUCCESS DAM	11.84	0.03	0.02	0.00	2.01	0.92	1.34	0.48	3.38	2.43	1.20	0.03	0.00	T	0.02	0.06	11.87
TULE RIVER INTAKE	27.57	0.08	0.00	0.00	3.01	1.91	2.68	2.35	6.40	7.46	3.51	0.13	0.04	0.00	0.01	0.56	28.06
TULE RIVER PH	17.94	0.01	0.00	0.00	2.67	1.27	1.76	1.19	4.53	4.53	1.86	0.12	0.00	0.00	0.00	0.01	17.94
GREENHORN MOUNTAIN C4																	
WOODY	11.56	0.00	0.00	0.00	1.76	0.81	1.51	0.66	2.09	3.02	1.70	0.01	0.00	0.00	0.02	0.10	11.68
KERN RIVER C5																	
ISABELLA DAM	10.91	0.78	0.00	0.00	2.30	0.10	1.96	0.65	1.82	2.70	0.56	0.04	0.30	0.00	0.03	1.85	12.01
KERN CANYON	1.56	0.00	0.00	0.00	2.07	0.48	0.93	0.35	2.26	2.18	2.31	0.00	0.00	0.00	0.05	0.03	16.66
KERN R 3 INTAKE	14.40	0.00	0.00	0.10	1.66	0.19	2.71	1.02	3.90	3.68	1.09	0.00	0.05	0.00	0.00	0.50	14.80
ONYX	5.98	0.13	0.00	0.00	1.31	0.00	1.41	0.00	1.55	1.41	0.17	0.00	0.00	0.00	0.00	0.00	5.85
TEHACHAPI MOUNTAINS C6																	
TEHACHAPI-CUMMINGS W D		NR	NR	NR	2.25	0.46	2.12	0.28	1.03	2.46	1.23	0.10	0.00	0.00	0.10	0.05	10.08
KEENE	15.48	0.15	0.00	0.00	2.15	1.03	1.76	1.38	2.54	4.12	2.26	0.09	0.00	0.00	0.00	0.13	15.46
MIL POTRERO	14.64	0.43	0.10	T	1.78	0.97	2.87	0.09	1.56	3.16	3.68	T	0.00	0.00	0.33	T	14.44
WALKER BASIN	Inc.	0.00	0.00	0.00	2.46	0.36	2.02	1.30	4.1	NR	NR	NR	NR	NR	NR	0.50	Inc.
TULARE L BA WESTSIDE C7																	
ANNETTE	NR	0.00	0.00	0.00	RE												
AVENAL 8 SW	10.99	0.00	0.00	0.00	0.50	0.00	2.34	0.04	3.67	2.76	1.68	0.00	0.00	0.00	0.00	0.00	10.99
AVENAL 6 SSW	9.80	0.00	0.00	0.00	0.55	0.33	1.85	0.27	3.04	2.26	1.47	0.03	0.00	0.00	T	0.06	9.86
CHICO RANCHO	13.22	T	0.00	0.00	0.62	0.32	3.21	0.04	4.49	3.32	1.22	T	0.00	T	0.11	0.10	13.43
CHOLAME TWISSELMAN	10.71	0.00	0.00	0.00	1.66	0.26	2.24	0.02	2.80	2.09	1.64	0.00	0.00	0.00	0.08	0.00	10.79

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1974						1975									TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
TULARE L BA WESTSIDE C7 (Cont.)																	
COALINGA ROBERTS RCH	15.05	0.00	0.00	0.00	0.51	0.25	3.15	0.07	6.04	3.50	1.53	0.00	0.00	0.00	0.00	0.30	15.35
FELLOWS	4.84	0.00	0.00	0.00	0.53	0.35	1.17	0.00	1.44	0.76	0.59	0.00	0.00	0.00	0.08	0.00	4.92
MARICOPA FS	7.67	T	0.00	0.00	1.09	1.83	1.63	0.01	1.02	1.26	0.83	0.00	0.00	0.00	0.08	0.00	7.75
MCKITTRICK FS	3.97	0.00	0.00	0.00	0.38	0.45	0.61	0.00	1.34	0.70	0.49	0.00	0.00	0.00	0.02	0.04	4.03
TAFT KTKR	4.99	0.06	0.00	0.00	1.08	0.39	0.87	0.00	0.79	0.80	1.00	0.00	0.00	0.00	0.09	0.00	5.02

TABLE A-3

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1974-75 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	7-10-74	7-10-75	32.6
LAKE ALPINE	DEPT OF WATER RESOURCES	7-10-74	7-10-75	66.3
MT. REBA	DEPT OF WATER RESOURCES	11- 7-74	9-24-75	43.24
TUOLUMNE RIVER B4				
TIOGA PASS	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	40.26
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	36.05
MERCED RIVER B5				
OSTRANDER LAKE	YOSEMITE NATL PARK SERVICE	7-25-74	8-26-75	57.45
SNOW FLATS	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	57.2
TENAYA LAKE	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	46.6
SAN JOAQUIN RIVER B7				
CHIQUITO CREEK	DEPT OF WATER RESOURCES	7- 8-74	7-22-75	49.85
CLOVER MEADOW	DEPT OF WATER RESOURCES	7- 8-74	7-22-75	49.1
FLORENCE LAKE	SO CALIF EDISON COMPANY	9-20-74	9-22-75	20.29
KAISER MEADOW	SO CALIF EDISON COMPANY	9-24-74	9-18-75	45.62
MAMMOTH POOL	SO CALIF EDISON COMPANY	9-23-74	9-19-75	33.27
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	9-17-74	10- 7-75	38.11
VERMILLION VALLEY	SO CALIF EDISON COMPANY	9-11-74	9-16-75	21.70
TULARE LAKE BASIN				
KINGS RIVER C1				
DUSY BENCH	DEPT OF WATER RESOURCES	8-27-74	9-15-75	24.58
MORAINE CREEK	U S CORPS OF ENGINEERS			Not serviced
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-10-74	9- 9-75	41.05
SUMMIT MEADOW	DEPT OF WATER RESOURCES	7-19-74	7-24-75	54.35
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-10-74		Not serviced
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	10- 7-74	9-10-75	35.70
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	9-10-74	9- 8-75	42.60
GIANT FOREST	U S CORPS OF ENGINEERS	10- 8-74	9-10-75	38.45
HOCKETT MEADOW	U S CORPS OF ENGINEERS	10- 9-74	9-11-75	33.90
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	9-24-74	9-23-75	35.90
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	9-25-74	9-25-75	42.10
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	9-26-74	9-25-75	36.65
ROGERS CAMP	U S CORPS OF ENGINEERS	9-26-74	9-24-75	35.75
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	10- 9-74	9-19-75	21.65
CRABTREE MEADOW	DEPT OF WATER RESOURCES	9-12-74	9- 6-75	20.00
PASCOES	U S CORPS OF ENGINEERS	9-24-74	9-23-75	33.55
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	9-24-74	8-18-75	42.80
TUNNEL R S	DEPT OF WATER RESOURCES	9-17-74	9-11-75	19.52
WET MEADOW	U S CORPS OF ENGINEERS	9-25-74	9-23-75	33.30
TULARE LAKE BASIN - WESTSIDE C7				
OILFIELDS JOAQUIN RDG	DEPT OF WATER RESOURCES	10-11-74	7-23-75	14.05

APPENDIX B

SURFACE WATER MEASUREMENTS

INTRODUCTION

This appendix presents surface water data for the 1975 water year, which is from October 1, 1974 to September 30, 1975. 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.

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*Figure B-1 shows station locations

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

	Page	
	Daily Mean Discharge	Daily Mean Gage Height
Avenal Creek at Highway 33	91	
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	92	
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	110
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	
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below Snelling	63	105
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near Oakhurst	45	
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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	
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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	104
below Friant	38	102
at Maze Road Bridge	71	113
near Mendota	42	
near Newman		107
at Patterson Bridge	67	108
near Stevinson	57	103
near Vernalis	74	117
Stanislaus River at Koetitz Ranch	73	116
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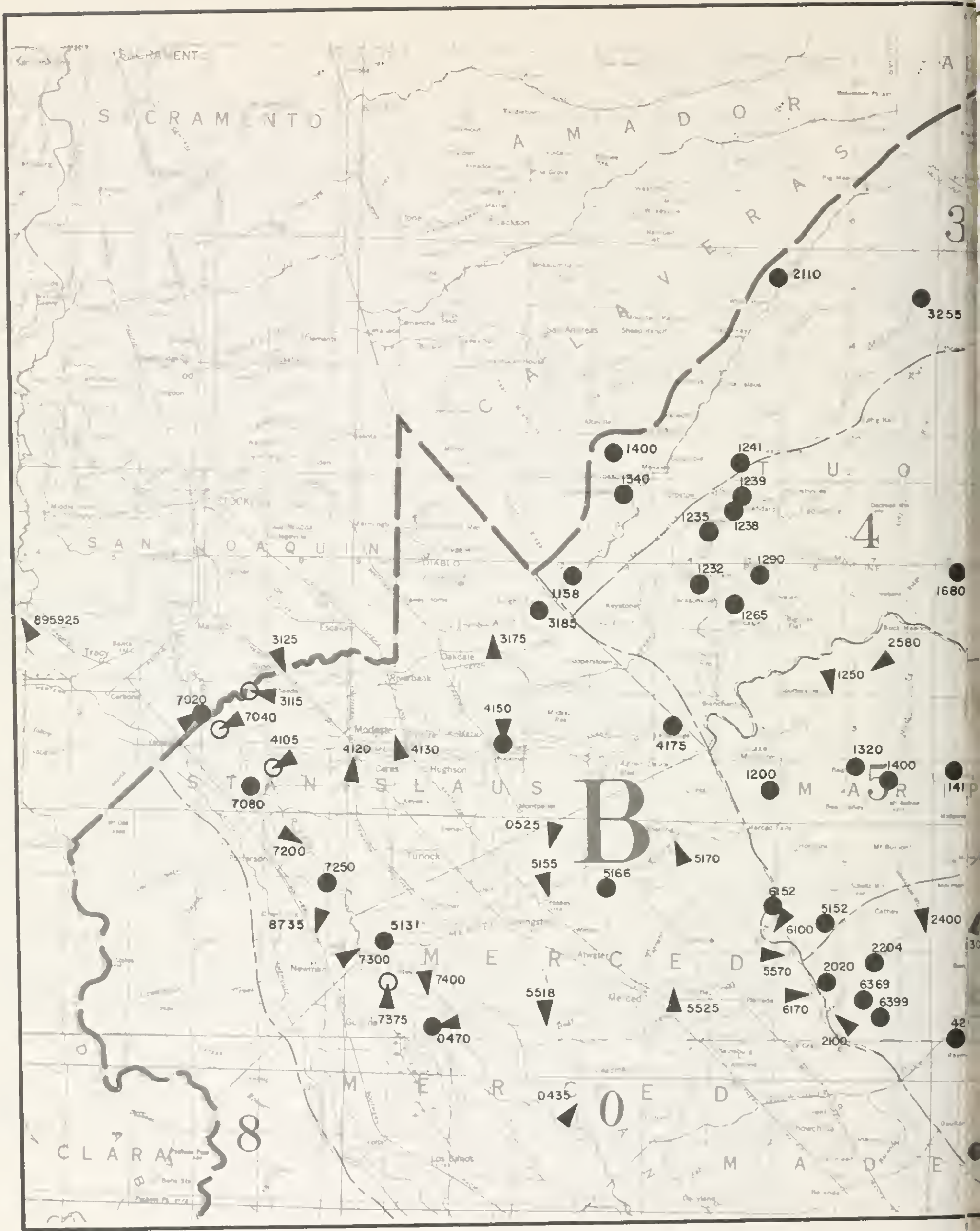
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C A L A V E R A S
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2020
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7375
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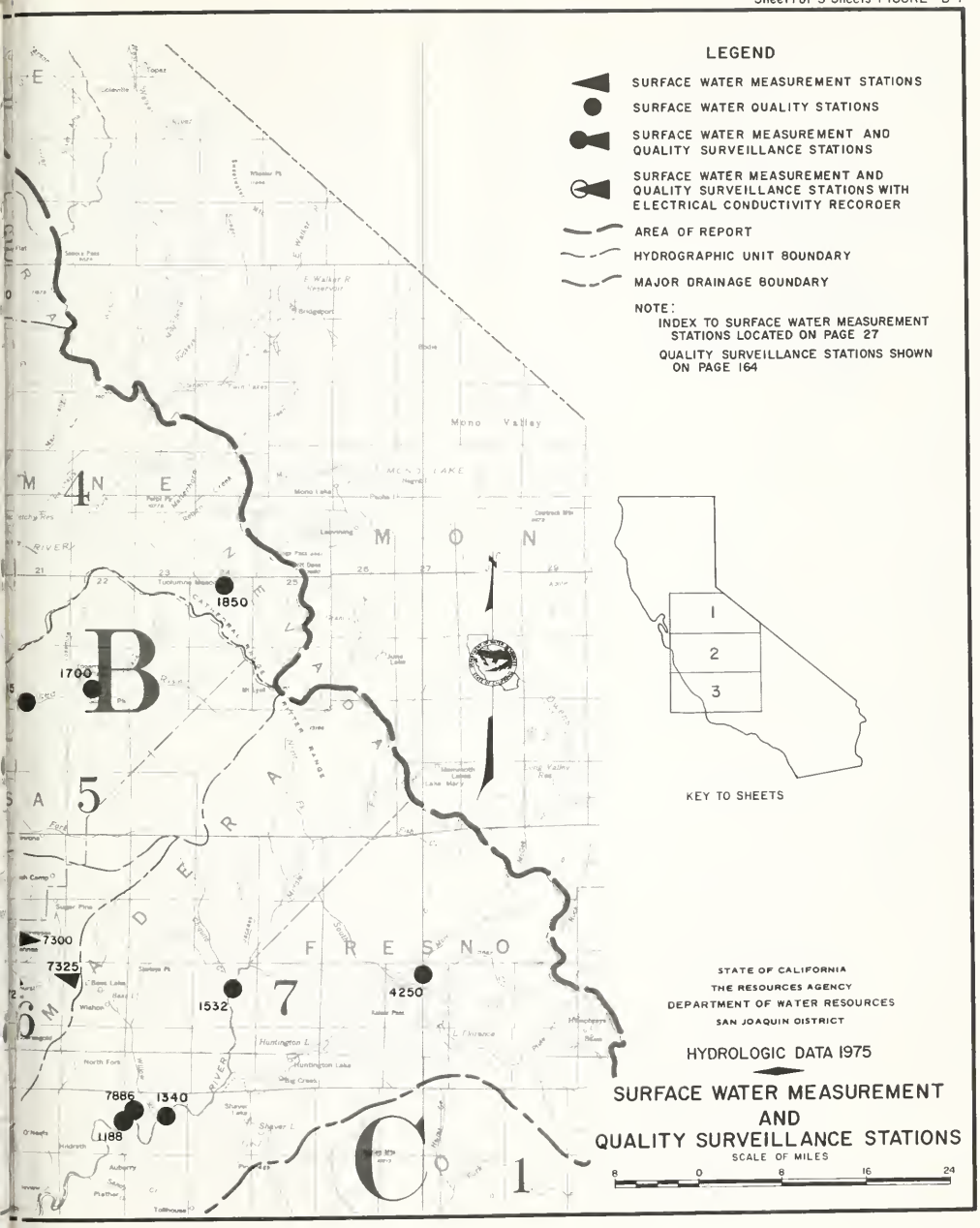
6170
0470
2100
0435
Tracy
Modesto
Turlock
Newman
Merced
Los Banos
Oakdale
Riverbank
Ceres
Hughson
Patterson
Jackson
Ione
San Andreas
Atwater


LEGEND
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SURFACE WATER MEASUREMENT AND QUALITY SURVEILLANCE STATIONS
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SCALE OF MILES
8 0 8 16 24
Mono Valley
MONO LAKE
Mono Lake
Lee Vining
Bridgeport
Tuolumne Meadows
Mammoth Lakes
Lake Mary
Huntington Lake
Shaver Lake
Auberry
Tollhouse
Sierra Nevada
Mono
Fresno
Madera
1850
1700
7300
7325
1532
4250
7886
1340
1188
4
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7
1
B
C

5155
6152
5152
2400
4300
5131
6100
2204
8735
7400
5570
2020
7300
6369
5518
5525
7375
6170
6399
4200
0470
2100
0435
7150
7610
6725
0975
7710
0770
0200
1120
B
0
8
C
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M E R C E D
M E R C E D
M A D E R
L A R A
S A N B E N I T O
E R E Y
K I
Dos Palos
Madera
Hollister
Soledad
Greenfield
King City
Coalinga
PANOCHE
HILLS
MUSTANG
RIDGE
P E A L A N T
VALLEY
CHOLAME
REEF RIDGE

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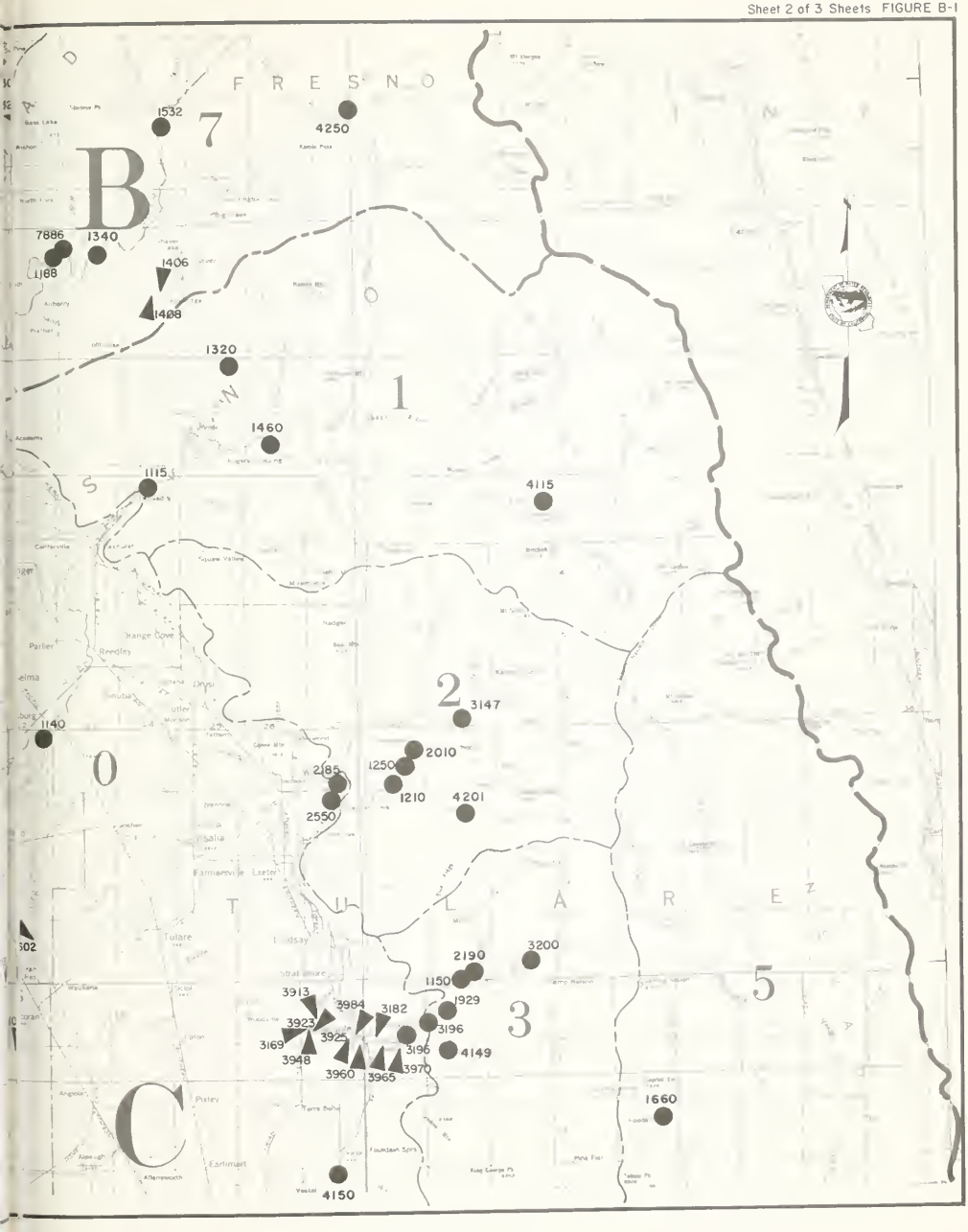

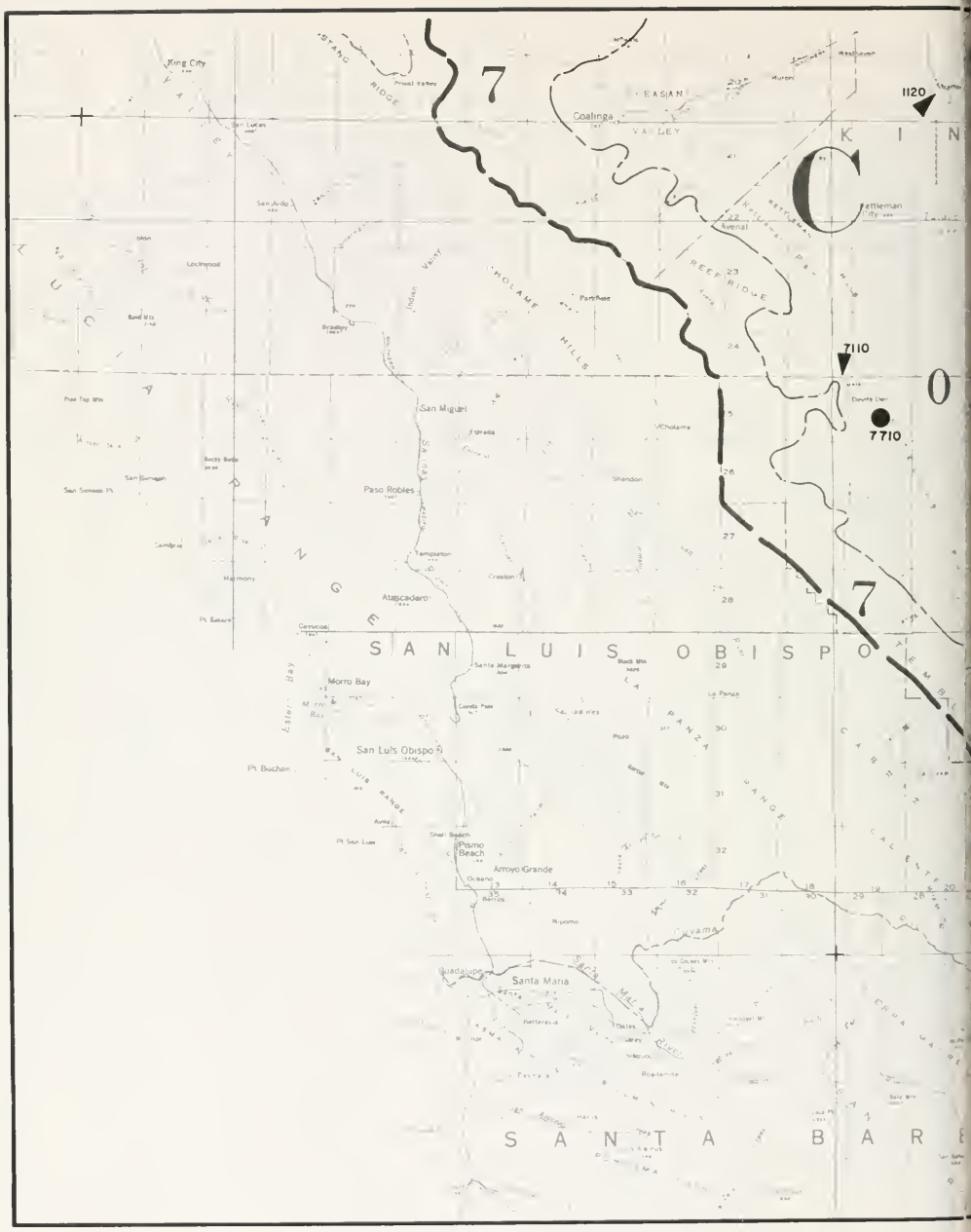
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King City
Coalinga
1120
Kettleman City
Avenal
Lockwood
Bradley
San Miguel
Paso Robles
Templeton
Atascadero
Cayucos
Morro Bay
San Luis Obispo
Pt Buchon
Pismo Beach
Arroyo Grande
Guadalupe
Santa Maria
7110
7710
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S A N T A B A R

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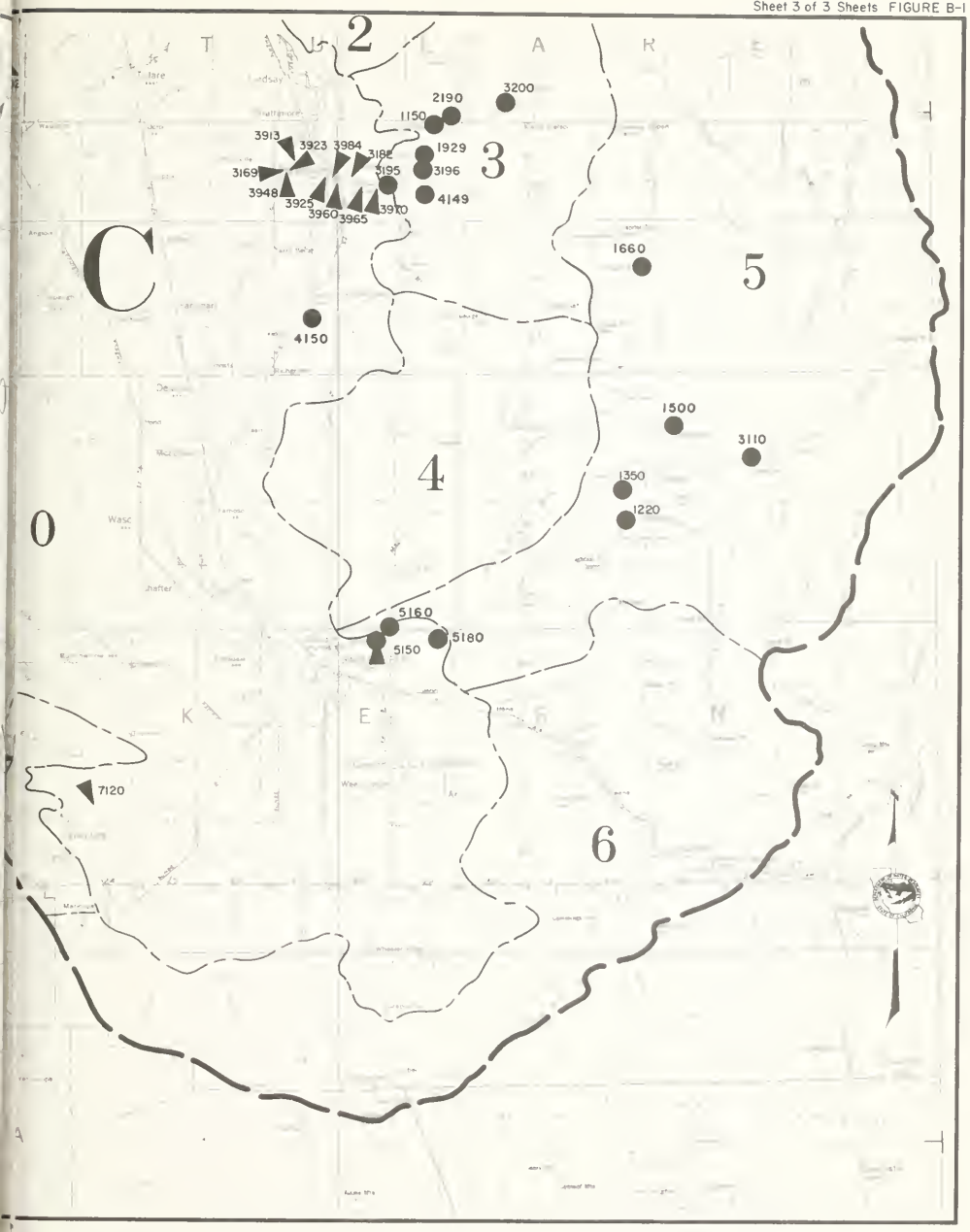


UNIMPAIRED RUNOFF

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	112	115	122	123	118	133	152	169	141
1973-74	144	122	126	132	130	131	121	113	122
1974-75 (c)	114	111	123	108	113	99	95	91	86

(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	98	71	29	117	85	100	105	213	133
	Average	8	14	6	16	45	16	4	1	14
November	Percent	58	36	47	58	48	66	81	90	100
	Average	24	45	20	30	119	28	8	4	17
December	Percent	44	39	36	52	43	50	38	46	71
	Average	52	92	46	62	253	54	21	11	28
January	Percent	27	48	44	53	44	48	39	39	72
	Average	67	108	56	69	300	59	22	14	28
February	Percent	81	104	139	80	100	68	50	65	76
	Average	85	140	80	95	400	80	30	19	32
March	Percent	130	133	145	106	127	96	92	82	75
	Average	112	168	90	128	500	106	38	24	49
April	Percent	62	63	67	56	61	45	50	70	49
	Average	196	282	148	236	863	214	64	24	86
May	Percent	139	129	132	127	131	122	119	140	98
	Average	290	446	242	430	1408	429	105	22	145
June	Percent	185	169	195	156	171	141	152	150	109
	Average	179	352	168	369	1069	370	76	10	125
July	Percent	147	126	144	102	121	84	91	157	77
	Average	52	113	48	158	370	150	26	3	63
August	Percent	145	71	159	88	101	75	70	267	81
	Average	13	20	10	46	89	44	7	1	26
September	Percent	192	67	276	142	149	92	128	0	102
	Average	6	8	4	18	36	17	3	0	15
1974-75	Percent	114	111	123	108	113	99	95	91	86
Water Year	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
1975	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	95 *	70	39	38	41	38	44	112	100	125	144	88	1
2	90	70	39	38	46	38	44	115	100	123	129	88	2
3	85	70	42	36	41	38	46	113	102	123	129	88	3
4	75	66	42	38	38	38	46	113	106	121	127	88	4
5	76	60	41	38	42	39	57	112	106 *	123	127 *	88	5
6	76	60	38	39	46	52	73	110	123	125	125	88	6
7	76	60	39	39	62	41	55	108	123	123	123	87	7
8	76	50	41	44	62	41	50	110	121	121	123	87	8
9	75	30	39	41	62	39	47	110	125	123	123	87	9
10	75	28	39	39	78	41	44	110	119	119	121	87	10
11	73	28	39	39	65	52	44	110	117	112	119	83	11
12	73	28	39	38	63	46	42	108	121	112	119	82	12
13	73	28	41	38	65	47	39	110	121	110	119	82	13
14	73	30	41	38	63	65	39	112	123	110	112	82	14
15	71	32	41	38	47	46	44	112	121	110	100	75	15
16	71	33	41	38	41	49	42	112	115	110	99	70	16
17	70	33	41	38	38	49	42	115	117	110	99	70	17
18	70	32	38	39	36	42	41	115	119	108	99	71	18
19	70	32	38	39	38	42	42	112	121	110	99	71	19
20	71	32	39	38	39	41	36	112	119	110	99	71	20
21	71	34	38	38	39	42	41	110	121	108	97	71	21
22	73	36	39	38	38	100	33	102	121	110	95	71	22
23	76 *	34	38	38	38	66	77	100	121	108	90	71	23
24	78	34	38	38	39	54	136	100	123	121	92	70	24
25	78	34	38	38	41	66	136	99	123	142	94	70	25
26	80	36 *	39	39	41 *	68	100	95	123	142	94	68	26
27	80	36	39	39	41	57	76	95	125	151	94	73	27
28	83	36	39	38	41	54	75	97	125	163	94	82	28
29	82	38	38	39		50	90	97	125	163	94	82	29
30	82	38	38 *	39		49	110 *	97	125 *	160	94	82 *	30
31	76		38	39 *		47 *		99		160	90		31
MEAN	76.5	40.9	39.3	38.6	47.5	49.6	59.7	107	118	124	108	79.1	MEAN
MAX.	95	70	42	44	78	100	136	115	125	163	144	88	MAX.
MIN.	70	28	38	36	36	38	33	95	100	108	90	68	MIN.
AC. FT.	4710	2440	2420	2370	2640	3050	3550	6590	7040	7650	6670	4710	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
74.4	163		7	28	Mean Daily	28		11	10	Mean Daily	53830

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

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
1975	C00200	JAMES BYPASS NEAR SAN JOAQUIN

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
12													13
14													14
15													15
16						NO FLOW							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 OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OF GAGE	REF DATUM
36 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 1975 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
1975	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4331		0	0	4497	4787	4161	4722	3318	4633	4588	4436	1
2	4450		0	0	4527	4777	4792	4717	3687	4644	4578	4040	2
3	4345		0	0	4506	4782	4752	4727	4046	4633	4568	3944	3
4	4344		0	0	4361	4750	4735	4705	4056	4635	4540	3970	4
5	4333		0	0	4485	4772	4751	4699	4083	4649	4583	3965	5
6	4357		0	0	4496	4764	4716	4704	4082	4678	4572	3968	6
7	4363		0	1071	4486	4472	4718	4628	4073	4634	4571	3968	7
8	4360		0	1684	4375	4111	4738	4759	4072	4638	4193	3979	8
9	4371		0	2309	4474	4116	4739	4764	4052	4670	4593	3965	9
10	4352		0	2723	4509	4113	4317	4764	4045	4639	4583	3978	10
11	4353		0	2637	4673	4116	3860	4739	4023	4641	4578	3974	11
12	4351		0	3202	4714	4086	3735	4757	4053	4637	4615	3975	12
13	4348	N	0	3209	4743	4127	3714	4288	4034	4635	4624	3974	13
14	4363	O	0	3236	4254	3681	3535	4140	4042	4641	4606	3958	14
15	4372		0	3192	3936	2825	3238	3582	4060	4633	4589	3979	15
16	4298	F	0	3252	3941	2461	3230	3387	4006	4626	4600	3981	16
17	3921	L	0	3400	3934	2452	3229	3356	4032	4632	4536	3971	17
18	3860	O	0	3486	3934	2455	3226	3367	4016	4584	4492	3967	18
19	3875	W	92	3486	3930	2946	3224	3372	4043	4583	4352	3861	19
20	3872		224	3475	3959	3377	3219	3367	4033	4533	4380	3760	20
21	3872		0	3482	3951	3372	3466	3338	3963	4524	4371	3748	21
22	3403		0	3483	3918	3372	4445	3377	3917	4529	4385	3755	22
23	2701		0	3509	3931	3887	4737	3375	3938	4581	4376	3764	23
24	2437		0	3492	3422	3364	4734	3336	4009	4602	4347	3730	24
25	2471		0	3952	3228	3398	4745	3360	3947	4562	4377	2810	25
26	1865		0	3948	3299	3383	4734	3346	4010	4613	4404	2394	26
27	1664		0	3943	4209	3383	4728	3366	3992	4618	4415	2397	27
28	1676		0	3944	4588	3373	4720	3371	4001	4602	4409	2302	28
29	1080		0	4129		3413	4727	3342	4005	4592	4422	2295	29
30	243		0	4489		4043	4729	3343	4245	4588	4487	2313	30
31	0		0	4568		4092		3333		4568	4458		31
MEAN	3435		10	2687	4195	3760	4213	3949	3996	4612	4490	3637	MEAN
MAX.	4450		224	4568	4743	4787	4792	4764	4245	4678	4624	4436	MAX.
MIN.	0		0	0	3228	2452	3219	3333	3318	4524	4193	2295	MIN.
AC. FT.	211640		627	165228	232300	231177	250702	242842	237788	283595	276087	216442	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
3244	4792		4	2	Daily Mean	0		10	31	Daily Mean	2348428

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 47 49	121 35 03	SW31 1S 4E	4935		8-11-69	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
1975	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1809	531		0	1045	1263	1500	1991	2301	2583	2875	1806	1
2	1794	507		0	1062	1292	1638	2050	2460	2764	2826	1743	2
3	1778	495		0	1003	1434	1755	2086	2545	2730	2813	1679	3
4	1741	520		0	831	1646	1987	2086	2666	2615	2795	1672	4
5	1733	553		0	817	1579	2010	2079	2664	2574	2916	1710	5
6	1706	554		0	793	1245	2010	2053	2732	2439	2882	1832	6
7	1701	583		0	726	929	1674	2119	2748	2428	2883	1863	7
8	1578	567		0	686	887	1537	2192	2763	2620	2960	1687	8
9	1537	541		0	675	905	1456	2244	2789	2747	2978	1587	9
10	1542	516		1000	695	914	1451	2256	2907	2848	2994	1508	10
11	1561	462		1000	833	938	1493	2256	2880	2845	3033	1524	11
12	1561	445		1000	931	951	1493	2171	2798	2861	2949	1560	12
13	1560	455	N	549	827	930	1493	2201	2748	2876	2831	1451	13
14	1530	420	O	585	829	703	1489	2291	2704	2838	2898	1438	14
15	1326	225		515	688	552	1375	2435	2749	2820	2811	1441	15
16	1318	175	F	460	556	551	1369	2257	2789	2856	2751	1530	16
17	1278	150	L	456	525	561	1401	2234	2896	2847	2690	1619	17
18	1122	135	O	456	520	753	1367	2234	2875	2705	2530	1706	18
19	1190	100	W	508	664	796	1398	2237	2853	2659	2429	1645	19
20	1190	50		636	769	968	1399	2246	2711	2614	2329	1706	20
21	998	50		731	793	902	1557	1988	2629	2656	2398	1721	21
22	728	75		858	844	875	1660	1965	2629	2569	2400	1784	22
23	860	75		853	833	875	1792	1971	2616	2714	2425	1795	23
24	818	75		843	833	861	1896	2071	2450	2934	2425	1924	24
25	847	75		866	914	944	1979	2105	2482	2917	2409	1966	25
26	852	50		884	1235	912	2040	2137	2472	2917	2375	1918	26
27	851	50		915	1362	1035	2053	2279	2489	2938	2329	1896	27
28	795	25		961	1267	1023	1859	2305	2489	2992	2226	1895	28
29	655	0		1024		1048	1736	2258	2490	3020	2132	1922	29
30	598	0		1032		1075	1850	2233	2551	2877	2067	1915	30
31	595			971		1408		2248		2932	2002		31
MEAN	1809	583		1032	1362	1646	2053	2435	2907	3020	3033	1966	MEAN
MAX.	595	0		0	520	551	1367	1965	2307	2428	2002	1438	MAX.
MIN.	77728	16778		33924	46654	61003	98614	133446	158444	170055	161380	102037	MIN.
AC. FT.													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
											1060063

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
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
1975	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	256	145	59	0	48	247	272	249	403	490	470	325	1
2	254	145	52	0	46	249	271	265	414	492	481	322	2
3	254	143	48	0	36	249	270	286	441	490	490	310	3
4	238	141	45	0	27	264	258	291	444	487	495	299	4
5	223	141	39	0	23	270	240	315	447	495	491	296	5
6	223	141	32	0	21	223	238	345	470	495	504	291	6
7	190	138	27	0	20	206	234	356	492	495	513	296	7
8	159	136	23	0	19	182	213	369	487	490	510	298	8
9	150	136	20	0	20	180	204	377	476	476	507	288	9
10	141	136	17	0	19	178	184	387	461	476	507	286	10
11	139	136	16	1	16	178	184	398	458	473	513	279	11
12	139	134	0	5	20	180	184	400	461	473	519	281	12
13	139	134	0	9	23	176	184	395	458	476	519	284	13
14	136	132	0	16	23	143	186	374	490	478	516	284	14
15	146	131	0	23	23	119	182	371	516	478	516	291	15
16	155	127	0	25	24	110	170	371	510	481	510	308	16
17	155	122	0	26	24	122	167	356	501	481	507	315	17
18	154	119	0	26	26	154	167	340	484	481	501	328	18
19	154	114	0	25	27	198	168	343	487	484	478	330	19
20	154	111	0	23	27	238	167	345	498	501	476	330	20
21	157	106	0	23	73	254	176	356	498	516	470	330	21
22	167	105	0	22	141	270	204	361	501	519	461	330	22
23	170	118	0	20	146	272	238	379	507	510	447	330	23
24	170	134	0	19	174	261	240	387	498	510	450	335	24
25	168	129	0	19	213	242	242	390	495	507	456	361	25
26	168	124	0	19	230	258	245	384	495	501	444	366	26
27	167	119	0	54	234	263	245	382	495	504	406	377	27
28	150	113	0	82	245	249	256	366	495	498	366	377	28
29	121	98	0	72		258	256	377	492	473	330	377	29
30	118	75	0	64		272	252	384	492	461	330	364	30
31	129		0	53		274		398		464	328		31
MEAN													MEAN
MAX.	256	145	59	82	245	274	272	400	516	519	519	377	MAX.
MIN.	118	75	0	0	16	110	167	249	403	461	328	279	MIN.
AC. FT.	10400	7500	750	1240	3900	13370	12890	22010	28500	30060	28780	19020	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
246	519	4.31	8	13	1900	0		12	12		178420

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
1975	B07610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55	5	146	0	12	12	12	0	7	12	12	12	1
2	46	4	99	0	12	12	8	0	7	8	12	12	2
2	42	3	68	0	4	7	0	0	12	9	12	12	3
4	38	3	50	0	0	0	0	0	12	12	8	12	4
5	34	4	23	0	0	9	0	0	12	12	9	12	5
6	30	3	5	0	0	9	0	0	12	6	12	12	6
7	27	2	0	4	0	0	0	0	12	4	12	12	7
8	24	2	0	21	0	0	0	0	12	12	12	12	8
9	19	0	0	28	0	0	0	9	12	12	12	12	9
10	16	0	0	198	0	0	0	3	7	12	12	5	10
11	12	0	0	218	0	0	0	0	0	8	12	0	11
12	8	0	0	116	0	0	0	9	9	0	12	0	12
13	6	0	0	98	0	0	0	12	12	9	12	0	13
14	5	0	0	152	0	0	8	3	12	12	12	0	14
15	5	0	0	285	0	0	12	0	12	7	12	0	15
16	5	0	0	235	0	0	4	7	12	0	12	0	16
17	8	0	0	238	0	0	0	0	12	9	12	0	17
18	8	0	0	242	0	0	0	0	12	12	12	0	18
19	8	0	0	242	0	0	0	0	12	12	12	0	19
20	8	0	0	242	5	0	0	0	12	7	12	0	20
21	8	0	12	255	12	0	0	0	12	9	12	0	21
22	9	0	13	260	3	0	9	0	12	12	12	0	22
23	9	0	22	277	0	0	8	0	12	12	12	0	23
24	11	0	14	288	0	0	0	9	12	12	12	0	24
25	11	47	1	290	5	0	0	8	12	12	12	0	25
26	11	180	0	282	12	0	0	0	12	12	12	0	26
27	11	210	0	217	12	0	0	7	12	12	12	0	27
28	14	205	0	8	12	0	0	12	12	12	12	0	28
29	12	198	0	12		0	0	12	12	12	12	0	29
30	6	178	0	12		0	0	12	12	12	12	0	30
31	4		0	12		8		12		12	12		31
MEAN													MEAN
MAX.	55	210	146	290	12	12	12	12	12	12	12	12	MAX.
MIN.	4	0	0	0	0	0	0	0	0	0	8	0	MIN.
AC. FT.	1010	2070	900	8390	177	113	121	228	650	600	700	224	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
21.0	345	2.15	1	10	2000	0		11	9		15183

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D B &M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OF GAGE	REF. DATUM
36 59 38	120 30 02	N½12 11S 13E	8920a 8200	10.52b	6-24-41 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
1975	B67325	FRESNO RIVER, LEWIS FORK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.1 *	17	13	27	24	62	79	118	119	57	16	6.3	1
2	3.4	14	13	25	46	60	73	122	117 *	59	7.5	6.2	2
3	7.0	11	65	15	32	58	74 *	138	146	67	6.8	5.2	3
4	4.5	11	126 *	15	37	57 *	71	151	143	65	6.7	5.0	4
5	4.4	10	50	17	31 *	98	61	120	143	63	6.8	4.7	5
6	3.8	10	33	50	32	143	76	108 *	125	60	6.7	3.8	6
7	4.2	11	28	49	36	143	71	107	139	56	8.2	3.6	7
8	5.2	13 *	25	77	39	150	72	121	137	52	6.0	4.1	8
9	4.9	12	23	45 *	193	117	72	135	138	50	7.5	4.7	9
10	4.6	12	21	34	143	100	79	142	136	49	6.8	5.1	10
11	4.6	11	21	30	80	90	77	145	128	47	6.9	5.1	11
12	4.1	11	21	28	61	85	76	149	118	44	6.8	4.5	12
12	3.8	12	20	27	98	81	81	150	116	42	6.9	4.5	12
14	3.8	11	19	27	85 *	74	104	150	116	41	6.8	4.5	14
15	3.7	11	19	26	59	72	108	153	114	38	6.8	4.4	15
16	3.6	12	20	25	52	80	93	167	114	31	6.8	4.3	16
17	4.3	13	19	24	45	67	84	168	113	30	7.5	4.8	17
18	4.3	13	18	24	43	64	79	169	113	29	8.2	4.4	18
19	2.8	13	18	25	43	67	77	166	111	28	10	3.0	19
20	3.0	13	18	24	56	67	80	157	108	26	11	3.0	20
21	3.2	21	18	24	46	69	95	140	101	25	11	3.0	21
22	3.3	28	18	24	41	87	100	136	87	24	6.4	2.8	22
23	3.7	16	13	23	40	72	99	136	84	23	5.1	2.5	23
24	4.0	14	20	23	41	75	115	141	83	22	5.2	2.8	24
25	4.3	14	27	23	42	335	178	144	81	21	5.4	2.9	25
26	5.1	13	23	23	45	159	113	136	80	20	5.4	2.9	26
27	4.7	13	17	22	49	110	101	136	79	19	5.5	2.8	27
28	43	12	21	17	55	90	103	132	65	18	5.4	3.0	28
29	18	12	18	21		82	108	124	61	18	6.1	3.3	29
30	11	13	16	20		82	113	120	58 *	19	6.1	3.3	30
31	14		17	18		88		116		18	5.9		31
MEAN	6.3	13.2	25.9	27.5	56.9	96.3	91.1	139	109	37.5	7.2	4.0	MEAN
MAX.	43	28	128	77	193	335	178	169	146	67	16	6.3	MAX.
MIN	2.1	10	13	15	24	57	71	107	58	18	5.1	2.5	MIN
AC. FT.	390	787	1591	1690	3162	5919	5419	8527	6492	2303	445	239	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
51.1	572	2.84	3	25	1000	1.6	0.90	10	1	1645	36960

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
1975	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.9 *	4.3	2.2	2.7	7.0 E	12 E	18	23	14	5.7	3.6	2.4	1
2	1.2	3.2	2.2	2.7	15 E	10 E	17	23	13 *	5.7	3.7	2.3	2
3	1.6	2.7	16	2.8	11 E	11 E	17 *	25	13	5.6	3.6	2.2	3
4	1.5	2.4	25	3.0	15 E	12 #	16	28	12	5.5	3.4	2.1	4
5	1.4	2.3	8.9	3.0	11 E	23	17	23	11	5.4	3.4	2.0 *	5
6	1.3	2.3	5.5	7.9	10 E	46	16	21 *	10 *	5.6	3.3	1.9	6
7	1.2	2.2	4.4	9.3	12 E	40	15	21	10	5.8	3.3	1.9	7
8	1.3	2.3 *	3.8	17	15 E	41	14	24	9.6	5.6	3.2 *	1.8	8
9	1.4	2.4	3.5	8.2	65 E	30	15	26	9.3	5.4	3.0	2.2	9
10	1.4	2.3	3.2	6.7	55 E	25	16	27	8.9	5.4	2.8	2.2	10
11	1.4	2.2	3.1	5.8	14 E	22	17	28	8.6	5.2	2.8	2.2	11
12	1.3	2.0	3.1	5.2	6.0 E	21	18	29	8.3	5.0	2.8	2.1	12
13	1.2	1.9	3.0 *	5.0	24 E	20	20	30	8.1	4.9	2.7	1.9	13
14	1.2	1.8	2.9	4.8 E	26 E	18	23	30	8.6	4.9	2.7	1.8	14
15	1.1	1.9	2.8	4.6 E	9.0 E	17	22	30	7.6	4.8	2.7	1.7	15
16	1.1	1.8	2.8	4.4 E	6.0 E	19	19	29	7.3	4.7	2.7	1.6	16
17	1.0	1.8	2.7	4.3 E	5.0 E	16	18	28	7.6	4.8	2.6	1.7	17
18	1.0	1.9	2.7	4.3 E	4.0 E	16	17	28	7.8	4.8	2.6	1.7	18
19	1.0	1.9	2.6	4.4 E	4.0 E	17	17	28	7.9	4.6	3.4	1.6	19
20	1.0	2.0	2.6	4.3 E	7.0 E	17	19	26	7.9	4.5	3.8	1.5	20
21	1.0	3.3	2.6	4.3 E	5.0 E	17	21	22	7.7	4.5	4.5	1.5	21
22	1.0	10	2.7	4.3 E	4.0 E	19	21	20	7.3	4.3	3.6	1.4	22
23	1.1	4.1	2.6	4.3 E	5.0 E	17	21	20	7.0	4.1	3.1	1.4	23
24	1.1	3.2	2.6	4.3 E	8.0 E	19 *	23	28	7.1	3.9	2.8	1.4	24
25	1.2	2.8	2.5	4.3 E	11. E	118	34	32	7.4	3.8	2.7	1.4	25
26	1.2	2.6	2.6	4.5 E	14 E	43	24	19	6.9	3.8	2.5	1.3	26
27	1.4	2.4	2.6	4.3 E	15 E	30	21	18	6.7	3.8	2.5	1.3	27
28	9.5	2.3	3.5	4.0 E	15 E	24	21	17	6.4	3.6	2.5	1.3	28
29	4.7	2.3	3.0	3.8 E		20	22	16	6.2	3.6	2.5	1.3	29
30	3.0	2.2	2.9	3.7 E		19	23	15	6.0 *	3.7	2.5	1.2	30
31	3.5		2.6	3.6 E		20		15		3.7	2.9		31
MEAN	1.7	2.7	4.3	5.0 E	14 E	25.1	19.4	24.2	8.6	4.7	3.0	1.7	MEAN
MAX	9.5	10	25	17	65 E	118	34	32	14	5.8	4.5	2.4	MAX.
MIN.	0.9	1.8	2.2	2.7	4.0 E	10 E	14	15	6.0	3.6	2.5	1.2	MIN.
AC. FT.	106	160	264	309 E	789 E	1545	1154	1486	514	291	187	104	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
9.5	220	5.56	3	25	0900	0.5	2.49	10	2	1445	6909

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 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
1975	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	1.4	8.0	8.9	14	14	41	39	18	3.6	0.8	0.3	1
2	0.0	1.2	8.7	9.5	31	12	34	38	18 *	3.4	0.8	0.3	2
3	0.0	1.0	23	9.6	22	13	34 *	44	17	2.6	1.0	0.4	3
4	0.0	1.2	40 *	10	31	17 *	34	62	16	2.3	1.0	0.3	4
5	0.0	1.5	15	9.8	23 *	50	80	43	14	1.1	0.7	0.2 *	5
6	0.0	1.6	7.8	19	21	186	92	38 *	13	0.7	0.9	0.2	6
7	0.0	2.0	5.6	22	23	175	56	35	13	1.2	0.6	0.2	7
8	0.0	2.0 *	5.6	35	30	194	48	37	13	1.4	0.5 *	0.4	8
9	0.1	2.4	5.9	21 *	146	111	42	40	13	1.7	0.2	0.3	9
10	0.1	2.2	5.3	12	109	87	43	41	13	2.3	0.2	0.2	10
11	0.0	2.4	4.8	9.8	28	72	41	42	11 *	2.0	0.5	0.3	11
12	0.0	2.4 *	4.2	8.2	12	73	40	43	8.7	1.9	0.9	0.4	12
13	0.0	2.2	3.9 *	7.6	48	66	43	43	7.4	1.7	0.9	0.5	13
14	0.0	2.7	3.8	7.3 *	52 *	63	80 *	43 *	6.1	1.9	0.9	0.5	14
15	0.0	2.8	4.2	7.2	17	46	101	43	6.5	1.7 *	1.0	0.4	15
16	0.1	2.9	4.4	7.2	11	68	72	42	6.6	1.9	1.0	0.3	16
17	0.6	2.9	4.9	7.8	7.0	45 *	57	41	8.0	1.6	1.1	0.3	17
18	0.1	2.5	5.2	8.0	5.9	36	49	39	5.7	1.3	1.2	0.3 *	18
19	0.1	2.4	5.4	7.9	6.1	36	45	39	5.7	1.3	1.6	0.3	19
20	0.1	2.4	5.5	8.2	15	34	44	38	5.3	1.3	1.7	0.2	20
21	0.0	3.2 *	5.9	8.2	8.0	39	45	31	5.5	1.6 *	1.8 *	0.2	21
22	0.1	6.2	6.3	8.2	6.2	126	43	29	4.9	1.3	1.4	0.3	22
23	0.2	3.2	6.3	8.3	10	53	39	30	6.5 *	1.0	0.7	0.3	23
24	0.2	3.1	6.3	9.0	16 *	50	42	29	6.5	0.9	0.6	0.3	24
25	0.3	3.5	6.6	9.1	22	339 *	93	29	6.7	1.1	0.6	0.1	25
26	0.4	4.3	6.9	8.9	28	247	55	28	6.6	1.2	0.6	0.1	26
27	0.7	4.7	6.9	9.2	30	117	42	26	8.0	1.1	0.4	0.1	27
28	4.5	5.3	10	9.3	31	77	40	25	9.2	0.9	0.4	0.1	28
29	0.8	6.3	8.9	9.3		59	40	23	9.4	0.8	0.4	0.0	29
30	0.1	7.5	9.0	9.3		51	40	21	6.1 *	0.6	0.4	0.0	30
31	1.0		8.7	9.3		49		20		0.7	0.3		31
MEAN	0.3	3.0	8.2	10.8	28.7	84.0	51.8	36.2	9.6	1.6	0.8	0.3	MEAN
MAX.	4.5	7.5	40	35	146	339	101	62	18	3.6	1.8	0.5	MAX.
MIN	0.0	1.0	3.8	7.2	5.9	12	34	20	4.9	0.6	0.2	0.0	MIN.
AC. FT.	19	177	502	663	1593	5167	3084	2223	572	95	50	15	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
19.6	477	7.28	3	25	1000	0.0	2.32	10	1	0000	14160

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
1975	B06725	FRESNO RIVER HIGH [illegible] WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	0.0	0.0	45	71	16				1
2			0.0	0.0	0.0	0.0	40	71	26				2
3			0.0	0.0	53	0.0	32	62	0.0				3
4			0.0	0.0	164	0.0	27	53	2.[illegible]				4
5			0.0	0.0	119	0.0	25	47	3.0				5
6			0.0	0.0	85	77	115	36	[illegible].0				6
7			8.4	0.0	38	205	205	26	5.0				7
8			48	0.0	36	138	166	0.0	3.0				8
9			7.4	0.0	268	480	128	0.0	2.0				9
10			5.0	68	272	240	122	0.0	0.0				10
11			3.6	68	153	200	145	0.0	0.0				11
12			1.0	27	50	188	110	0.0	0.0				12
13	N	N	0.0	3.6	199	155	100	0.0	2.0	N	N	N	13
14	O	O	0.0	1.7	217	183	91	0.0	1.0	O	O	O	14
15			0.0	7.0	130	279	164	0.0	0.0				15
16	F	F	0.0	8.4	75	190	263	0.0	5.0	F	F	F	16
17	L	L	0.0	6.0	52	267	213	0.0	3.0	L	L	L	17
18	O	O	0.0	4.5	25	183	183	0.0	2.0	O	O	O	18
19	W	W	0.0	4.5	10	125	158	21	2.0	W	W	W	19
20			0.0	8.4	5.0	125	135	42	5.0				20
21			0.0	8.4	20	115	109	10	6.0				21
22			0.0	7.4	0.0	115	105	14	5.0				22
23			0.0	6.7	0.0	510	95	10	2.0				23
24			0.0	5.3	0.0	205	73	7.2	0.0				24
25			0.0	0.0	0.0	172	78	7.2	0.0				25
26			0.0	0.0	0.0	872	150	0.0	0.0				26
27			0.0	0.0	0.0	229	164	0.0	0.0				27
28			0.0	0.0	0.0	169	101	0.0	0.0				28
29			0.0	0.0		75	101	4.0	0.0				29
30			0.0	0.0		60	71	2.0	0.0				30
31			0.0	0.0		60		4.0					31
MEAN			2.4	7.6	70	181	117	16	3.2				MEAN
MAX.			48	68	272	872	263	71	26				MAX.
MIN.			0.0	0.0	0.0	0.0	25	0.0	0.0				MIN.
AC. FT			144	467	3908	11160	6969	966	188				AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
32.9	1116	3.72	3	26	1600	0		10	1		23802

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M O B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 58 30	120 12 12	NE15 11S 16E				1936-SEP 40 OCT 41-SEP 42 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
1975	B64300	CHOWCHILLA RIVER, WEST FORK NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0 *	0.2	0.8	1.9	28	19	46	33	7.7	2.2			1
2	0.0	0.6	0.8	1.8	551	17	41	31 *	7.2	2.2			2
3	0.0	0.5	22	1.8	163	17	41 *	33	7.2	2.1			2
4	0.0	0.4	59 *	1.8	308	17 *	40	38	6.9	2.0			4
5	0.0	0.4	9.6	1.7	118 *	47	103	31	6.3 *	2.0			5
6	0.0	0.4	4.0	8.1	52	145	97	30	5.8	1.8			6
7	0.0	0.4	2.8	11	41	159	84	29	5.3	1.6	*		7
8	0.0	0.5 *	2.2	84	41	149	92	27	5.1	1.5			8
9	0.0	0.5	1.9	32 *	470	78	93	25	4.6	1.4			9
10	0.0	0.6	1.7	15	501	71	83	25	4.3	1.2			10
11	0.0	0.6	1.6	9.7	106	60	76	24	4.0 *	1.1			11
12	0.0	0.6	1.5	7.2	60	57	67	23	3.6	1.0			12
12	0.0	0.5	1.5	6.1	132	68	60	22	3.7	0.9	N	N	13
14	0.0	0.5	1.4	5.4	94 *	84	78	21	3.3	0.9	O	O	14
15	0.0	0.5	1.4	4.9	53	64	137	20	3.1	0.9			15
16	0.0	0.6	1.4	4.5	42	109	106	21	2.9	1.2	F	F	16
17	0.0	0.6	1.3	4.1	35	74	82	20	2.9	1.3	L	L	17
18	0.0	0.6	1.3	4.0	31	58	68	18	3.1	1.2	O	O	18
19	0.0	0.6	1.2	3.7	30	51	62	17	3.2	1.0	W *	W	19
20	0.0	0.7	1.2	3.7	42	46	55	17	3.1	0.9			20
21	0.0	1.8	1.2	3.5	32	56	52	16	3.1	0.8			21
22	0.0	5.9	1.3	3.3	27	285	47	15	3.0	0.7			22
23	0.0	2.1	1.2	3.2	25	63	43	14	2.8 *	0.6			23
24	0.0	1.4	1.1	3.1	24	67	45	14	2.8	0.6			24
25	0.0	1.1	1.1	3.1	23	296 *	53	12	3.1	0.5			25
26	0.0	1.0	1.1	3.1	21	132	43	12	3.0	0.4			26
27	0.0	0.9	1.2	3.1	20	90	39	11	2.9	0.2			27
28	0.2	0.9	3.3	2.9	20	71	36	10	2.6	0.1			28
29	0.3	0.8	2.4	2.9		62	35 *	9.5	2.4	0.0			29
30	0.1	0.8	1.8	3.0		56	34	8.8	2.2 *	0.0			30
31	0.2		1.8	2.9		53		8.1		0.0			31
MEAN	0.0	0.9	4.4	8.0	110	86.2	64.7	20.5	4.1	1.0			MEAN
MAX.	0.3	5.9	59	84	551	296	137	38	7.7	2.2			MAX.
MIN	0.0	0.2	0.8	1.7	20	17	34	8.1	2.2	0.0			MIN.
AC. FT.	2	54	270	489	6129	5298	3848	1260	241	64			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
24.4	1170	6.53	2	9	0530	0.0	1.35	10	1	0000	17650

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 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
1975	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0 *	0.0	0.0	52 *	7.0 *				8.0	1
2				0.0	0.0	0.0	24	0.6				0.0 *	2
3				0.0	0.0	0.0	8.0	2.1	*			0.0	3
4				0.0	28	0.0 *	0.6	1.8				0.0	4
5				0.0	142	0.0	0.6	0.0				0.0	5
6				0.0	539 *	0.0	0.3	0.0				0.0	6
7				0.0	280	0.0	44	0.0				0.0	7
8				0.0	104	0.0	323	0.0				0.0	8
9				0.0	48	328	300	0.0				0.0	9
10				0.0	182	581	204	0.0				0.0	10
11				0.0	1010	336	136	0.0				0.0	11
12				0.0	976	282	110	0.0				0.0	12
13	N	N	N	0.0	443	224 *	88	0.0	N	N	N	0.0	13
14	O	O	O	0.0	240	214	54	0.0	O	O	O	0.0	14
15				0.0	396 *	224	42	0.0 *				0.0	15
16	F	F	F	0.0	443	280	45 *	0.0	F	F	F	0.0	16
17	L	L	L	0.0	270	260	122	0.0	L	L	L	0.0	17
18	O	O	O	0.0	165 *	298 *	163	0.0	O	O	O	0.0	18
19	W	W	W	0.0	78	278	112	0.0	W	W	W	0.0	19
20				0.0 *	49	140	77	0.0				0.0	20
21				0.0	24	74	54	0.0				0.0	21
22				0.0	16	49	33	0.0				0.0	22
23				7.5	5.8	226	22	5.8				0.0	23
24				5.8	14	546	20	0.0				0.0	24
25				2.7	2.4	300	3.0	0.0				0.0	25
26				0.0	0.0	306 *	0.0	0.0				0.0	26
27				0.0	0.0	934	0.0	0.0				0.0	27
28				0.0	0.0	684	12	0.0				0.0	28
29				0.0		308	20	0.0				0.0	29
30				0.0		57	114	0.0				0.0	30
31				0.0		77		0.0					31
MEAN				0.5	195	226	69	0.6				0.3	MEAN
MAX.				7.5	1010	934	323	7.0				8.0	MAX.
MIN.				0.0	0.0	0.0	0.0	0.0				0.0	MIN.
AC. FT.				32	10820	13900	4133	34				16	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
40	1340	12.14	2	11	2200	0	5.14	10	1	0015	28930

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
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
1975	B62400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		3.9	1.0	3.7	84	26	69	37	7.6	1.8			1
2		3.5	0.8	3.2	1550	24	61	36 *	7.2	1.8			2
3		2.1	100	2.8	594	22 *	56 *	34	7.1	1.8			3
4		1.5	254 *	2.7	626	22	53	39	6.8	1.8			4
5		1.3	44	2.4	315	40	188	33	6.3 *	1.8			5
6		1.2	18	26	140 *	184	231	30	5.6	1.6			6
7		1.2 *	11	46	97	376	185	29	5.2	1.4			7
8		1.5	8.2	271	78	316	179	28	5.0	1.2			8
9		1.6	6.7	105 *	516	148	172	26	4.3	1.1			9
10		1.6	6.1	44	738	147	150	25	3.8	1.0			10
11		1.5	5.7	26	199	126	117	24	3.5 *	0.8			11
12		1.5	5.3	19	120	101	98	23	3.3	0.7			12
13	N	1.3	5.1	15	364	117	84	21	3.2	0.7	N	N	13
14	O	1.4	5.0	13	262 *	135	84	20 *	2.9	0.6	O	O	14
15		1.5	5.0	11	139	128	148	19	2.7	0.7			15
16	F	1.5	5.1 *	9.5	102	259	136	19	2.6	0.9	F	F	16
17	L	1.6	4.7	8.3	79	185	115	18	2.6	1.1	L	L	17
18	O	1.6	4.3	7.8	64	137	96	17	2.9	1.0	O	O	18
19	W	1.7	4.1	7.1	57	111	83	16	3.1	0.9	W	W	19
20		1.6	3.8	6.5	77	93	74	16	3.3	0.8			20
21		3.9	3.6	6.0	58	88	68	16	3.2	0.7			21
22		17	3.5	5.6	47	612	62	15	3.0	0.6			22
23		6.3	3.1	5.3	43	183	55	14	2.7 *	0.6			23
24		3.5	2.8	5.1	39	139	49	13	2.8	0.5			24
25		2.5	2.7	4.9	36	502 *	53	13	3.2	0.5			25
26		1.9	2.6	4.8	32	235	53	12	2.9	0.4			26
27		1.6	2.7	4.6	30	159	46	11	2.5	0.3			27
28		1.4	11	4.3	28	126	42	10	2.3	0.3			28
29		1.2	7.7	4.4		104	39 *	9.5	2.0	0.3			29
30		1.0	5.0	4.3		90	38	8.7	1.9 *	0.2			30
31			4.4	4.3		81		8.1		0.2			31
MEAN		2.5	17.7	22.1	233	162	96.1	20.7	3.9	0.9			MEAN
MAX.		17	254	271	1550	612	231	39	7.6	1.8			MAX.
MIN.		1.0	0.8	2.4	28	22	38	8.1	1.9	0.2			MIN.
AC. FT.		149	1085	1356	12920	9949	5720	1270	229	56			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
45	2320	8.46	2	2	1345	0	2.08	10	1	0015	32730

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M D B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 23 55	120 00 10	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
1975	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	7.2	2.7	9.2	47	28	3.1	2.1			1
2			0.0	7.0	584	8.0	39	28	2.9	1.8			2
3			0.0	8.8	765	7.6	33	27	2.8	1.7			3
4			75	8.8	717	7.4	30	29	2.7	1.7			4
5			134	8.8	723	7.8	80	34	2.5	1.7			5
6			26	8.8	645	50	37	30	2.3	1.5			6
7			20	23	490	128	33	29	2.2	1.5			7
8			12	113	207	400	218	30	2.0	1.3			8
9			9.2	214	188	302	204	30	2.0	1.0			9
10			7.6	70	544	161	182	31	1.8	0.6			10
11			7.0	31	536	149	128	30	2.1	0.0			11
12			6.6	21	342	94	94	29	2.5	0.0			12
13	N	N	6.6	17	322	78	72	29	2.4	0.0	N	N	13
14	O	O	6.0	14	420	161	56	28	2.5	0.0	O	O	14
15			6.0	14	338	137	100	28	2.5	0.0			15
16	F	F	5.8	12	143	188	134	26	2.5	0.0	F	F	16
17	L	L	5.8	12	70	274	119	25	2.6	0.0	L	L	17
18	O	O	5.6	11	44	188	90	23	2.5	0.0	O	O	18
19	W	W	5.4	10	38	146	68	21	2.6	0.0	W	W	19
20			5.4	9.2	38	84	54	18	2.4	0.0			20
21			5.4	5.4	36	62	47	16	2.4	0.0			21
22			5.4	2.9	24	367	43	14	2.3	0.0			22
23			5.2	2.7	19	4.4	38	13	2.4	0.0			23
24			5.2	2.6	15	256	34	11	2.4	0.0			24
25			5.2	2.6	14	279	35	8.4	2.4	0.0			25
26			5.4	2.6	12	445	38	7.2	2.4	0.0			26
27			5.4	2.5	11	306	35	6.4	2.4	0.0			27
28			5.4	2.5	10	170	31	5.4	2.3	0.0			28
29			6.8	2.5		102	30	4.8	2.2	0.0			29
30			9.6	2.4		78	28	3.8	2.2	0.0			30
31			7.6	2.3		62		3.4		0.0			31
MEAN			13	21	261	166	73	21	2.4	0.5			MEAN
MAX.			134	214	765	445	218	34	3.1	2.1			MAX.
MIN.			0.0	2.3	2.7	4.4	28	3.4	1.8	0.0			MIN.
AC. FT.			814	1290	14470	10200	4320	1280	143	30			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
44.9	765		2	3	Daily Mean	0					32550

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 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
1975	806170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	1.0	1.0	2.0	3.0	6.0	11	4.5	1.0	0.5	0.1	0.5	1
2	0.0	1.0	1.0	2.0	NR	5.4	10	4.5	1.0	0.5	0.0	0.5	2
3	0.0	0.5	10	2.0	NR	4.8	9.0	4.5	1.0	0.5	0.0	0.5	3
4	0.0	0.5	16	1.0	NR	4.8	9.3	3.6	1.0	0.5	0.0	0.5	4
5	0.0	0.5	7.2	2.0	128	8.1	26	3.6	1.0	0.5	0.0	0.5	5
6	0.0	0.5	3.0	2.0	124	24	42	3.6	1.0	0.5	0.0	0.3	6
7	0.1	0.5	2.0	3.9	110	22	53	3.3	1.0	0.5	0.0	0.2	7
8	0.3	0.5	2.0	7.2	89	39	28	3.3	0.5	0.4	0.0	0.3	8
9	0.5	0.5	2.0	6.3	69	13	22	3.0	0.5	0.4	0.1	0.5	9
10	0.5	0.5	2.0	4.2	91	24	15	3.0	0.5	0.4	0.2	0.5	10
11	0.5	0.5	2.0	3.0	79	18	12	3.0	0.5	0.3	0.2	0.5	11
12	0.5	0.5	2.0	3.0	25	12	11	3.0	0.5	0.3	0.3	0.5	12
13	0.5	0.5	2.0	2.0	41	25	10	3.0	0.5	0.4	0.5	0.5	12
14	0.5	0.5	2.0	2.0	73	35	9.9	3.0	0.5	0.4	0.5	0.5	14
15	0.5	0.5	2.0	2.0	26	18	12	3.0	0.5	0.3	0.5	0.5	15
16	0.5	0.5	2.0	2.0	19	50	14	3.0	0.5	0.5	0.5	0.5	16
17	0.5	1.0	2.0	2.0	15	25	11	2.0	0.5	0.5	0.5	0.5	17
18	0.5	1.0	2.0	2.0	12	19	9.0	2.0	0.5	0.4	0.5	0.5	18
19	0.5	1.0	2.0	2.0	9.6	15	7.8	2.0	0.5	0.3	0.5	0.4	19
20	0.5	1.0	2.0	2.0	12	104	7.2	2.0	0.5	0.3	0.5	0.5	20
21	0.5	1.0	2.0	2.0	10	99	7.2	2.0	0.5	0.3	0.5	0.5 E	21
22	0.5	4.2	2.0	2.0	9.0	92	6.6	2.0	0.5	0.3	0.5	0.5 E	22
22	0.5	3.0	1.0	2.0	8.1	88	6.0	2.0	0.5	0.2	0.5	0.5 E	23
24	0.5	2.0	1.0	2.0	7.5	31	6.0	2.0	0.5	0.0	0.5	0.5 E	24
25	0.5	1.0	1.0	2.0	7.5	63	6.3	2.0	0.5	0.0	0.5	0.5 E	25
26	0.5	1.0	1.0	2.0	6.9	71	8.1	2.0	0.5	0.0	0.5	0.5 E	26
27	1.0	1.0	2.0	2.0	6.3	28	6.6	2.0	0.5	0.0	0.5	0.5 E	27
28	1.0	1.0	2.0	2.0	6.0	22	5.7	1.0	0.5	0.0	0.5	0.5 E	28
29	1.0	1.0	2.0	2.0		17	4.8	1.0	0.5	0.0	0.5	0.5 E	29
30	0.5	1.0	2.0	2.0		15	4.5	1.0	0.5	0.0	0.5	0.5 E	20
31	1.0		2.0	2.0		14		1.0		0.2	0.5		21
MEAN	0.4	1.0	2.7	2.4	NR	33	13	2.6	0.6	0.3	0.3	0.5	MEAN
MAX.	1.0	4.2	16	7.2	NR	104	53	4.5	1.0	0.5	0.5	0.5	MAX.
MIN	0.0	0.5	1.0	1.0	NR	4.8	4.5	1.0	0.5	0.0	0.0	0.2	MIN.
AC. FT.	30	60	170	150	NR	2010	770	160	40	20	20	30	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
NR	NR					0					NR

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R. M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT DHLY	PERIOD FROM	PERIOD TO	ZERO OH 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
1975	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	5.0	118	22	48	35	1.8	0.2			1
2			0.0	4.4	1048	20	41	34	1.7	0.4			2
3			0.0	4.1	862	19	38	33	1.9	0.6			3
4			113	3.8	660	14	35	33	1.8	0.5			4
5			80	3.8	435	17	56	33	2.0	0.5			5
6			27	4.4	148	58	97	33	1.5	0.4			6
7			14	24	104	82	230	32	2.4	0.3			7
8			11	221	88	318	168	31	1.3	0.3			8
9			7.8	139	308	121	139	30	1.1	0.3			9
10			7.0	58	566	88	98	28	0.9	0.2			10
11			6.2	32	191	123	80	27	0.8	0.2			11
12			5.4	21	105	78	68	26	0.7	0.2			12
13	N	N	4.4	17	252	72	57	25	0.7	0.2	N	N	13
14	O	O	4.1	13	365	127	51	24	0.6	0.2	O	O	14
15			4.1	11	135	129	54	21	0.5	0.2			15
16	F	F	4.1	9.0	96	227	66	21	0.4	0.2	F	F	16
17	L	L	3.8	7.8	76	185	60	19	0.3	0.1	L	L	17
18	O	O	3.8	7.4	57	109	50	17	0.3	0.0	O	O	18
19	W	W	3.5	6.6	50	81	44	15	0.3	0.0	W	W	19
20			3.5	6.6	70	74	41	13	0.3	0.0			20
21			3.5	6.2	68	56	40	13	0.3	0.0			21
22			3.5	5.8	51	524	39	11	0.3	0.0			22
23			3.5	5.4	44	182	38	10	0.3	0.0			23
24			3.5	5.0	35	111	38	8.6	0.4	0.0			24
25			3.5	5.0	32	451	40	7.8	0.4	0.0			25
26			3.5	4.7	29	308	50	6.2	0.3	0.0			26
27			3.5	4.7	27	139	41	5.0	0.2	0.0			27
28			3.8	4.7	24	100	39	4.4	0.2	0.0			28
29			4.1	4.4		86	37	3.5	0.2	0.0			29
30			4.1	4.4		74	37	2.6	0.2	0.0			30
31			4.4	4.1		58		2.0		0.0			31
MEAN			11	21	216	131	65	20	0.8	0.2			MEAN
MAX.			113	221	1048	524	230	35	2.4	0.6			MAX.
MIN.			0	3.8	24	14	35	2.0	0.2	0.0			MIN
AC. FT.			680	1300	11990	8040	3850	1200	48	10			AC FT

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
37.4	1120					0					27120

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
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
1975	B05525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	100	318	50	57	56	69	214	180	218	142	164	126	1
2	150	240	51	58	1799	65	206	172	128	134	146	144	2
3	158	230	72	56	3494	61	192	140	184	124	126	124	3
4	150	240	150	56	1840	58	198	162	162	138	122	83	4
5	96	64	240	55	1672	61	230	156	132	160	98	100	5
6	120	55	124	56	654	101	506	124	144	146	108	92	6
7	104	53	90	56	420	218	452	118	158	126	112	89	7
8	120	53	76	80	372	369	375	114	132	118	107	98	8
9	120	53	69	612	665	295	342	122	130	120	130	120	9
10	126	52	65	182	937	208	268	172	128	124	140	136	10
11	89	52	62	118	657	252	236	200	132	138	132	146	11
12	83	52	57	90	342	198	218	186	118	164	118	166	12
13	80	52	57	79	503	233	202	196	122	168	132	182	13
14	78	52	56	66	1102	604	178	196	154	166	114	202	14
15	70	52	55	61	485	368	168	182	182	160	120	162	15
16	47	51	55	58	305	480	202	182	170	168	134	156	16
17	45	51	55	57	228	495	172	186	154	158	107	164	17
18	43	51	55	56	184	395	148	208	146	164	108	162	18
19	43	50	54	55	162	440	166	206	110	172	144	182	19
20	42	50	53	54	138	164	168	196	130	182	164	164	20
21	41	52	53	54	160	138	136	190	118	158	160	162	21
22	40	54	53	54	132	1376	128	180	140	128	164	166	22
23	38	52	53	58	110	658	150	152	164	136	152	164	23
24	38	51	52	60	96	416	144	122	164	130	164	158	24
25	28	50	52	59	89	820	192	160	160	144	146	164	25
26	64	50	52	58	83	673	218	156	154	120	126	138	26
27	61	50	55	57	76	308	198	152	162	134	86	195	27
28	66	50	59	56	73	240	188	130	160	122	80	142	28
29	69	50	61	55		198	178	152	170	120	79	102	29
30	52	50	60	55		190	172	130	152	140	88	95	30
31	190		58	53		198		182		140	96		31
MEAN	82	72	69	83	601	334	218	165	152	143	125	143	MEAN
MAX.	190	318	240	612	3494	1376	506	208	218	182	164	202	MAX.
MIN.	28	50	50	53	56	58	128	114	110	118	79	83	MIN.
AC. FT.	5060	4300	4270	5120	33390	20528	12980	10120	9060	8810	7670	8500	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
179.3	4320					28					129820

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
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
1975	B05518	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	88	269	17	15	13	79	174	208	218	92	70	92	1
2	123	231	19	14	244	75	279	204	254	92	91	96	2
3	180	169	54	14	638	70	281	177	235	105	94	92	3
4	140	133	209	14	708	68	309	177	209	79	83	87	4
5	116	NR	239	13	694	70	339	164	148	119	83	96	5
6	88	NR	137	13	560	107	500	119	91	126	64	66	6
7	70	NR	63	15	350	202	502	75	111	107	74	58	7
8	44	NR	37	19	264	306	444	86	128	86	87	75	8
9	70	NR	28	201	328	400	411	81	126	65	110	142	9
10	81	NR	24	177	621	254	449	56	101	72	110	178	10
11	101	NR	22	80	586	251	339	86	106	74	110	216	11
12	164	NR	20	46	311	256	264	102	97	59	128	209	12
13	56	16	18	35	254	189	283	113	103	101	133	183	13
14	42	16	17	29	674	524	219	147	106	101	110	226	14
15	38	15	16	19	514	482	204	153	107	130	106	199	15
16	23	13	16	17	263	378	254	151	109	155	134	128	16
17	17	12	16	16	163	631	244	152	97	155	119	133	17
18	14	11	16	15	204	383	236	191	79	124	124	156	18
19	14	11	15	14	171	269	244	234	83	112	191	159	19
20	12	11	15	14	151	206	246	186	92	137	241	139	20
21	10	12	14	13	159	169	226	203	104	121	210	185	21
22	10	15	14	13	150	244	155	228	86	101	173	191	22
23	11	12	15	13	124	514	209	211	125	85	156	185	23
24	10	11	14	13	110	536	190	178	137	57	211	175	24
25	16	10	14	14	102	422	258	187	137	67	146	156	25
26	14	10	14	14	97	800	308	221	114	64	117	162	26
27	20	11	14	13	91	455	295	184	102	64	38	161	27
28	28	13	16	13	84	284	323	212	68	67	46	206	28
29	53	14	18	10		229	301	210	93	62	72	146	29
30	36	16	18	10		202	244	207	99	40	74	90	30
31	66		16	10		142		208		56	107		31
MEAN	57	34	38	30	308	297	291	165	122	93	117	146	MEAN
MAX.	180	269	239	201	708	800	502	234	254	155	241	226	MAX.
MIN.	10	10	14	10	13	68	155	56	68	40	38	58	MIN.
AC. FT.	3481	2045	2311	1817	17114	18242	17316	10138	7270	5703	7164	8702	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
140	800 E	9.07 E	3	26	0600	10	0.66	10	25	0300	101300

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
1975	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	0.4	12	24	7.0					1
3			0.0	0.0	51	10	20	6.7					2
3			22	0.0	1163	8.5	17	6.7					3
4			22	0.0	587	8.5	16	6.1					4
5			2.8	0.0	308	14	51	4.6					5
6			0.7	0.0	142	91	184	3.4					6
7			0.2	0.0	116	39	92	3.2					7
8			0.0	4.3	108	119	50	2.8					8
9			0.0	59	282	44	43	2.6					9
10			0.0	17	243	54	28	2.2					10
11			0.0	14	126	76	23	1.7					11
12			0.0	4.9	84	37	20	1.4					12
13	N	N	0.0	3.0	210	96	16	1.4	N	N	N	N	13
14	O	O	0.0	1.7	348	240	14	1.3	O	O	O	O	14
15			0.0	1.5	116	114	14	1.0					15
16	F	F	0.0	1.3	76	222	14	0.8	F	F	F	F	16
17	L	L	0.0	1.0	58	114	14	0.8	L	L	L	L	17
18	O	O	0.0	1.0	43	74	12	0.8	O	O	O	O	18
19	W	W	0.0	0.8	34	52	10	0.7	W	W	W	W	19
20			0.0	0.8	39	40	8.5	0.5					30
21			0.0	0.7	39	32	8.0	0.3					21
22			0.0	0.7	27	580	7.5	0.2					22
23			0.0	0.6	22	160	7.0	0.0					23
24			0.0	0.6	18	94	7.0	0.0					24
25			0.0	0.5	17	301	7.0	0.0					25
26			0.0	0.5	15	152	9.0	0.0					26
27			0.0	0.5	14	94	12	0.0					27
28			0.0	0.4	12	58	9.0	0.0					28
29			0.0	0.4		43	7.5	0.0					29
30			0.0	0.3		36	7.0	0.0					30
31			0.0	0.2		30		0.0					31
MEAN			1.5	3.7	154	98	25	1.8					MEAN
MAX.			22	59	1163	580	184	7.0					MAX.
MIN.			0.0	0.0	0.4	8.5	7.0	0.0					MIN.
AC.FT.			95	230	8520	6040	1490	111					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
22.8	1356					0					16490

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M D B &M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 22 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
1975	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	143	71	44	43	56	139	447	147 *	142	51	38	129	1
2	123	200	44	41 *	117	158	325 *	135	134	49	36	130	2
3	164 *	210	65	41	815	147	297	133	137	44	32	141 *	3
4	208	185	198	42	2480	131	302	116	106	45	34 *	167	4
5	175	159	360 *	42	2610 *	112	357	114	87	41	35	156	5
6	151	89	369	42	2730	154	400	116	63 *	44	41	132	6
7	125	63	261	42	2480	186	519	82	49	50 *	43	90	7
8	106	62 *	193	44	1950	275	591	67	50	53	44	81	8
9	90	58	146	55	1520	499	830	66	50	54	44	84	9
10	92	51	88	186	1310	663	972	62	51	52	48	119	10
11	90	58	72	238	1490	955	838	59	53	50	51	148	11
12	90	53	67	198	2150	850	620	60	59	49	56	190	12
13	95	45	66	151	2090	708 *	478	61	53	47	55	215	13
14	73	54	66	118	1730	697	400	59	49	41	53	238	14
15	72	59	59	98	1790	946	252 *	63 *	48	43	64	267	15
16	68	57	57	85	1700	884	224	66	51	52	79	266	16
17	59	55	69	77	1330	966	240	88	49	87	104	234	17
18	46	53	69	71	974	1060	301	95	57	89	98	221	18
19	40	52	65	66	721	951	355	113	51	75	71	202	19
20	42	50	61	78	533	844	331	131	49	63	150	194	20
21	43	49	61	87	420	659	320	106	45	71	218	186	21
22	40	49	50	82	352	546	276	110	42	66	234	186	22
23	37	50	55	87	240	918	190	115	42	57	230	184	23
24	38	41	47	88	187	1490	157	115	41	45	244	185	24
25	41	46	43	85	144	1570	156	137	39	39	253	188	25
26	43	47	42	81	96	1360	265	161	41	35	213	196	26
27	40	45	40	79	102	1580	266	147	39	33	152	178	27
28	47	46	38	75	119	1800	258	103	57	33	119	183	28
29	53	46	42	63		1450	270	106	52	33	112	214	29
30	56	45	44	51		966	241	89	40	34	112	162	30
31	52		46	51		667		119		36	123		31
MEAN	82	71.6	94.4	83.5	1151	785	383	101	60.9	50.4	103	176	MEAN
MAX.	208	210	369	238	2730	1800	972	161	142	89	253	267	MAX.
MIN.	37	41	38	41	56	112	156	59	39	33	32	81	MIN.
AC. FT.	5042	4260	5806	5131	63940	48260	22770	6238	3622	3096	6319	10450	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
255	2800	70.34	2	6	0515	36	60.89	10	23	1415	184900

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 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
1975	800975	PANOCHE DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	26	35	19	17	49	70	70 *	50	70	56 *	72 *	39	1
2	26 *	32	20	16 *	82	67	61	52	70	56	55	36 *	2
3	27	25	29	16	95	68	68	48	65 *	59	59	44	3
4	25	23	33	18	75	73 *	66	49	69	66	61	42	4
5	22	22	22	18	63	78	71	48	72	66	57	38	5
6	25	25	21	19	44	89	64	51	71	72	54	46	6
7	24	23 *	22	20	53	91	56	55	66	71	64	45	7
8	23	29	22 *	19	44	89	55	58	65	66	66	40	8
9	27	29	21	17	49	86	51	54	68	64	58	47	9
10	29	26	20	21	48	87	50	55	65	67	58	47	10
11	30	30	21	25	32	85	56	66	65	67	60	42	11
12	32	28	21	28	36	85	49	67	63	62	55	39	12
13	37	34 E	20	32	63	83	44	54	69	65	51	39	13
14	33	34 E	19	31	62	85	53	66	60	70	56 *	37	14
15	35	35 E	19	29	57	79	56	69 *	61	73	56	33	15
16	28 *	29	19	25	57	73	65 *	70	59	72 *	58	37 *	16
17	27	23	20	30	51	66	53	66	63 *	70	52	37	17
18	28	24	19	33	48 *	71 *	50	73	72	60	50	38	18
19	30	24 *	18	41	50	64	50	78	78	64	56	35	19
20	28	28	18	43 *	53	57	49	73	74	63	56	32	20
21	25	31	17	40	58	52	54	83	77	68	55	29	21
22	23	28	17	37	60	65	51	88	80	63	51	25	22
23	22	25	18	33	70	70	55	88	82	63	52	25	23
24	24	24	17	38	69	73	64	72	89	64	49	24	24
25	26	23	18	46	72	73	63	67	93	56	53	30	25
26	31	21	18	47	69	72	69	62	96	54	51	29	26
27	37	21	18 *	51	72	73	62	56	96	53	52	26	27
28	39	20	20	51	72	76	63	60	82	60	49	26	28
29	34	19	18	50		66	54	66	60	66	49	27	29
30	32	20	17	50		65	51	69	58	63	48	24	30
31	30		17	42		72		73		68	47		31
MEAN	28.5	26.3	19.9	31.7	59.0	74.3	57.4	64.1	71.9	64.1	55.2	35.3	MEAN
MAX	39	35	33	51	95	91	71	88	96	73	72	47	MAX.
MIN.	22	19	17	16	32	52	44	48	58	53	47	24	MIN.
AC. FT.	1755	1567	1226	1950	3279	4567	3418	3939	4280	3941	3390	2100	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
48.9	119	7.20	2	3	0100	14	1.86	1	2		35410

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 55 25	120 41 19	NW 5 12S 12E	69. 89.[a] 119	9.19 9.25 7.20	11-24-65 2-13-73 2-03-75	FEB 59-SEP 62 OCT 64-SEP 68 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
1975	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	143	165	97	83	104	190	332	169 *	63	146	66	226	1
2	154	144	77	82 *	142	198	293	154	72	142	90	230	2
3	156 *	132	94	78	186	202	265	129	74 *	131	99	204 *	3
4	132	131	135	58	229	206	265	124	81	130	113 *	162	4
5	118	133	146 *	61	250 *	212	281	141	64	138	139	155	5
6	102	132	143	61	249	226	326	136	68	135	127	157	6
7	93	137 *	139	64	243	305	360	110	80	142 *	121	148	7
8	92	147	133	64	224	342	399 *	105 *	82	136	119	131	8
9	99	141	133	56	200	329	435	103	80	106	125	139	9
10	92	144	141	54	186	331 *	432	107	85	105	107	155	10
11	76	144	156	54	180	331	410	120	98	99	115	150	11
12	63	135	158	51	185	338	377	131	81	85	127	148	12
13	68	137	160	57	219	326	345	149	82	104	106	134	13
14	85	150	162	62	239	325	330	133	76	130	110	138	14
15	79	151	160	64	233	352	286	138	63	118	118	133	15
16	59	148	157	62	233	362	250	141	89	136	135	133	16
17	53	146	147	63	221	359	250	138	123	168	136	95	17
18	57	148	118	59	214	362	245	141	92	163	168	89	18
19	56	172	113	62	207	357	231	144	87	140	254	114	19
20	65	169	105	71	191	349	214	132	95	132	325	129	20
21	73	141	97	92	187	332	202	112	112	139	314	130	21
22	72	143	93	101	186	332	187	129	145	147	291	134	22
23	72	143	91	97	193	346	169	138	160	159	293	129	23
24	69	146	103	105	206	369	137	124	136	142	304	104	24
25	80	148	105	100	187	401	161	113	132	112	309	88	25
26	87	147	103	98	159 *	395	169	115	133	89	302	99	26
27	96	140	102	93	156	378	184	122	146	108	267	99	27
28	104	128	101	106	177	400	184	126	142	110	268	122	28
29	105	125	89	110		401	155	96	151	87	240	148	29
20	108	108	82	101		362	139	83	142	74	250	161	30
31	130		83	95		340		65		72	247		31
MEAN	91.6	143	120	76.3	200	324	267	125	101	123	187	139	MEAN
MAX.	156	172	162	110	250	401	435	169	160	168	325	230	MAX.
MIN.	53	108	77	51	104	190	137	65	63	72	66	88	MIN.
AC. FT.	5629	8479	7384	4689	11080	19950	15890	7672	6018	7587	11470	8299	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
158	445	67.77	4	9	2300	49	64.18	1	12	0030	114200

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 14 52	120 51 04	SE10 8S 10E	537	70.35a 69.62	6-10-69 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
1975	B52580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.3	0.4	0.7	14	2.3	9.4	5.6	2.1	1.0	0.7	0.3	1
2	0.3	0.3	0.4	0.7	116	2.1	8.3 *	5.2 *	2.3	1.0	0.6	0.3	2
3	0.3	0.3	5.0	0.7	47	2.1 *	8.1	5.1	1.8	1.0	0.6	0.3	3
4	0.4 *	0.3	9.8 *	0.7	47	2.1	8.1	5.4	1.8	1.0	0.6	0.3 *	4
5	0.3	0.3	2.4	0.7	33	4.3	15	5.1	1.7 *	0.9	0.5	0.3	5
6	0.3	0.3	0.7	3.4	19 *	8.1	13	4.8	1.7	0.9	0.6	0.2	6
7	0.3	0.3 *	0.7	5.2	12	32	12	4.6	1.5	0.9	0.6 *	0.2	7
8	0.4	0.3	0.7	26 *	13	41	13	4.5	1.5	0.8	0.6	0.2	8
9	0.4	0.3	0.7	21	80	23	18	4.3	1.6	0.8	0.5	0.3	9
10	0.4	0.3	0.6	9.9	75	18	20	4.0	1.5	0.8	0.5	0.3	10
11	0.4	0.3	0.6	3.2	25	15	16	3.9	1.4	0.8	0.5	0.3	11
12	0.5	0.3	0.6	2.6	18	12	13	3.7	1.5	0.8	0.5	0.2	12
13	0.5	0.3	0.6	2.4	16	12	11	3.7	1.5	0.8	0.5	0.3	13
14	0.5	0.3	0.6	2.1	22	14	10	3.5	1.3	0.8	0.5	0.3	14
15	0.5	0.3	0.7	1.4	17	14	12	3.4	1.4	0.8	0.5	0.3	15
16	0.5	0.3	0.6	1.3	14	22	13	3.5	1.4	0.8	0.4	0.3	16
17	0.5	0.3	0.6	1.2	9.0	20	12	3.6	1.4	0.8	0.4	0.3	17
18	0.5	0.3	0.6	1.2	7.4	17	10	3.2	1.3	0.8	0.5	0.2	18
19	0.6	0.3	0.6	1.1	6.8	14	9.1	3.2	1.3	0.8	0.6	0.2	19
20	0.6	0.3	0.6	1.0	8.0	13	8.5	3.3	1.4	0.8	0.5	0.2	20
21	0.3	0.6	0.6	1.0	6.6	16	8.3	3.2	1.3	0.8	0.5	0.2	21
22	0.1	0.5	0.7	5.4	6.6	59	7.8	3.2	1.2	0.7	0.4	0.2	22
23	0.2	0.4	0.7	4.3	6.3	26	7.5	2.9	1.3	0.7	0.4	0.2	23
24	0.2	0.4	0.6	0.8	6.1	21	11	3.0	1.4	0.7	0.4	0.1	24
25	0.2	0.4	0.6	0.8	5.7	148 *	18	2.7	1.3	0.7	0.4	0.2	25
26	0.2	0.3	0.6	0.8	5.6	42	11	2.6	1.2	0.7	0.4	0.2	26
27	0.2	0.3	0.7	0.7	17	25	8.3	2.7	1.2	0.7	0.4	0.1	27
28	0.6	0.3	0.9	0.7	15	18	7.3	2.6	1.1	0.7	0.4	0.1	28
29	0.4	0.3	0.7	0.7		15	6.5	2.5	1.1	0.7	0.4	0.1	29
30	0.3	0.4	0.7	0.7		13	6.0	2.1	1.1 *	0.7	0.4	0.2	30
31	0.4		0.7	0.7		11		2.3		0.7	0.4		31
MEAN	0.4	0.3	1.1	3.3	23.9	22.0	11.0	3.7	1.5	0.8	0.5	0.2	MEAN
MAX.	0.6	0.6	9.8	26	116	148	20	5.6	2.3	1.0	0.7	0.3	MAX.
MIN.	0.1	0.3	0.4	0.7	5.6	2.1	6.0	2.1	1.1	0.7	0.4	0.1	MIN.
AC. FT.	23	20	69	204	1326	1353	657	225	86	49	30	14	AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
5.60	362	5.22	3	25	0600	0.1	1.15	10	1	1830	4056

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 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
1975	B51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.8	0.7	1.5	49	4.3	12	8.7	1.4	0.5	0.2	0.1 E	1
2	0.1	0.6	0.7	1.5	421	3.7	11 *	7.9 *	1.3	0.5	0.3	0.1 E	2
3	0.1	0.5	8.3	1.3	109	3.5 *	11	7.6	1.3	0.5	0.2	0.1 E	3
4	0.2 *	0.5	13 *	1.4	153	3.2	10	7.5	1.2	0.5	0.1	0.1 *	4
5	0.2	0.5	4.2	1.3	57	5.4	22	6.8	1.1 *	0.5	0.1	0.1	5
6	0.2	0.5	2.5	5.9	29 *	29	32	6.1	1.0	0.5	0.1	0.1	6
7	0.2	0.6 *	1.9	8.0	21	94	35	5.8	1.0	0.5	0.1 *	0.1	7
8	0.2	0.7	1.7	75 *	16	85	34	5.6	1.0	0.5	0.1 E	0.1	8
9	0.2	0.6	1.5	13	118	38	39	5.3	0.9	0.4	0.1 E	0.1	9
10	0.2	0.6	1.4	6.1	99	25	32	4.9	0.9	0.4	0.1 E	0.1	10
11	0.2	0.6	1.3	4.4	31	18	23	4.7	0.8	0.3	0.1 E	0.1	11
12	0.2	0.6	1.3	3.5	18	13	19	4.5	0.8	0.3	0.1 E	0.1	12
13	0.2	0.6	1.3	3.1	48	12	16	4.3	0.7	0.3	0.1 E	0.1	13
14	0.2	0.5	1.2	2.8	37	16	14	3.8	0.6	0.3	0.1 E	0.1	14
15	0.2	0.5	1.2	2.7	21	19	15	3.7	0.6	0.6	0.1 E	0.1	15
16	0.2	0.5	1.2	2.5	15	57	16	3.6	0.6	0.7	0.1 E	0.1	16
17	0.2	0.6	1.2	2.3	11	37	16	3.4	0.6	0.5	0.1 E	0.1	17
18	0.2	0.6	1.1	2.2	9.3	22	14	3.2	0.7	0.4	0.1 E	0.1	18
19	0.2	0.6	1.1	2.0	9.2	14	13	3.2	0.7	0.3	0.1 E	0.1	19
20	0.2	0.6	1.1	1.9	19	9.9	12	3.2	0.7	0.2	0.1 E	0.1	20
21	0.3	1.8	1.1	1.8	12	20	11	3.0	0.7	0.3	0.1 E	0.1	21
22	0.3	2.5	1.2	1.8	9.5	105	9.7	2.8	0.6	0.3	0.1 E	0.1	22
23	0.3	1.4	1.1	1.8	8.3	28	8.8	2.5	0.6	0.1	0.1 E	0.1	23
24	0.3	1.1	1.1	1.8	7.2	17	11	2.4	0.7	0.1	0.1 E	0.1	24
25	0.2	1.0	1.1	1.8	6.4	198 *	15	2.1	0.6	0.1	0.1 E	0.1	25
26	0.3	0.9	1.1	1.8	5.7	55	13	2.0	0.6	0.1	0.1 E	0.1	26
27	0.3	0.8	1.3	1.9	5.0	28	11	1.9	0.5	0.4	0.1 E	0.1	27
28	1.5	0.7	2.9	1.8	4.6	19	10	1.8	0.5	0.4	0.1 E	0.1	28
29	0.9	0.7	2.0	1.8		15	9.5 *	1.7	0.5	0.3	0.1 E	0.1	29
30	0.6	0.7	1.8	1.8		14	8.9	1.6	0.4 *	0.5	0.1 E	0.1	30
31	1.2		1.6	1.9		13		1.5		0.5	0.1 E		31
MEAN	0.3	0.8	2.1	5.2	48.2	32.9	16.8	4.1	0.8	0.4	0.1	0.1	MEAN
MAX.	1.5	2.5	13	75	421	198	39	8.7	1.4	0.7	0.3	0.1	MAX.
MIN	0.0	0.5	0.7	1.3	4.6	3.2	8.8	1.5	0.4	0.1	0.1	0.1	MIN.
AC. FT.	19	46	127	322	2676	2025	999	252	47	23	7 E	6	AC FT

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

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
9.05	925	5.32	2	2	0400	0.0	2.26	10	1	1545	6551

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
1975	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	320	206	154	142	193	393	867	386	245	196	132	397	1
2	290	296	141	138 *	242	435	680 *	345	250	201	135	389	2
3	303 *	344	153 *	137	503	420	584	326	265	191 *	153	393 *	3
4	336	326	278	124	1640	396	555	298	243	187	156 *	396	4
5	313	306	449	115	2120 *	385	610	299 *	216	191	159	366	5
6	271	265	525	118	2270	420	667	306	186 *	198	169	336	6
7	236	213	474	118	2270	489	791	268	172	200	173	304	7
8	203	220 *	391	121	2100	629	893	237	174	209	178	270	8
9	191	215	334	122	1820	779	1040	216	170	191	190	265	9
10	187	202	279	184	1600	958 *	1230	221	171	171	193	311	10
11	185	206	255	277	1570	1200	1220	222	183	167	176	342	11
12	173	204	252	274	1870	1230	1050	227	207	147	195	371	12
13	180	190	252	237	2050	1130	880	251	257	147	201	380	13
14	174	202	255	210	1930	1030	788	244	272	166	187	398	14
15	168	218	250	193	1880	1190	633	243 *	236	175	204	421	15
16	151	219	240	177	1860	1260	532	248	267	179	214	443	16
17	124	215	242	169	1670	1250	499	272	322	226	226	403	17
18	101	212	227	159	1400	1360	538	277	291	261	245	358	18
19	97	219	205	152	1140	1300	599	296	192	244	286	348	19
20	95	230	192	166	931	1220	599	310	161	211	393	358	20
21	111	212	184	198	784	1070	561	287	166	206	499	360	21
22	118	202	172	220	684	921	538	270	182	216	513	364	22
23	112	202	163	221	588	1020	446	298	193	227	508	357	23
24	107	193	160	232	508	1440	373	302	196	215	511	350	24
25	112	197	161	235	462	1650	365	295	176	182	520	328	25
26	121	196	158	226	378	1570	439	304	181	159	531	318	26
27	134	194	156	220	346	1600	498	318	182	156	494	319	27
28	146	182	156	216	370	1750	493	296	192	164	430	308	28
29	157	177	151	223		1700	489	280	198	151	403	355	29
30	167	170	146	204		1410	447	242	201	143	377	371	30
31	172		146	189		1110		224		142	380		31
MEAN	179	221	236	184	1256	1055	664	278	212	188	295	356	MEAN
MAX	336	344	525	277	2270	1750	1230	386	322	261	531	443	MAX
MIN.	95	170	141	115	193	385	365	216	161	142	132	265	MIN.
AC. FT.	11020	13160	14480	11340	69780	64890	39520	17070	12590	11540	18110	21180	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
421	2290	62.63	2	6	1530	84	54.75	10	19	1930	304700

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.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	125	533	613	432	369	462	1030 *	174 *	743	152	136	291	1
2	126 *	537	612	431	768	480	871	187	723	121	151	334	2
3	126	527	667 *	439 *	523 *	485 *	717	196	784	125 *	146	477 *	3
4	124	577 *	650	439	543	488	575	189	902	123	152	538	4
5	129	633	637	435	623	507	596	211	877	126	176	544	5
6	135	643	634	441	881	506	764	253	1150	136	166	511	6
7	146	646	632	430	958	523	536	231	2010	152	134	476	7
8	182	642	632	465	945	521	927	202	2040	163	140	474	8
9	761	641	633	439	1020	481	1140	180	2570 *	166	152	487	9
10	904	637	602	430	1180	500	994	175	3570	161	133	490	10
11	813	631	565	427	1700	483	677	174	4390	163	153	536	11
12	732	630	568	432	2020	471	873	339	4320	154	131	600	12
13	431	644	559	430	2190	568	680	529	4010	167	142	640	13
14	150	645	558	431	1970	518	836	716	4170	185	134	651	14
15	159	644	557	430	1530	477	796	760	4800	194	130 *	688	15
16	151	625	524	425	1520	508	761	756	4620	206	132	716	16
17	153	627	464	422	1270	474	747	747	3150	124	134	706	17
18	145	642	441	421	880	463	861	751	1720	128	152	686	18
19	141	635	430	428	695	459	824	753	923	125	162	689	19
20	144	632	425	423	675	456	803	754	750	124	178	687	20
21	142	641	429	423	680	470	751	779	825	129	169	701	21
22	133	646	427	422	684	639	546	932	850	127	156	732	22
23	135	647	422	419	682	469	415	884	840 *	121	152	763	23
24	135	647	421	401	674	686	366	851	819	119	174	790	24
25	190	647	425	408	687	1310	275	829	781	122	187	802	25
26	506	628	426	411	608	1670	221	836	766	118	171	791	26
27	529	632	430	418	487	1660	216	829	491	112	162	827	27
28	536	623	437	420	486	1670	211	834	243	116	168	910	28
29	516	639	435	418		1670	209	815	200	116	198	947	29
30	702	623	434	403		1690	195	765	253	113	225	968	30
31	550		435	350		1450		745		113	253		31
MEAN	318	625	520	424	973	757	654	557	1813	139	160	648	MEAN
MAX.	904	648	667	465	2190	1870	1140	884	4800	206	253	968	MAX.
MIN	124	527	421	350	369	456	195	174	200	112	130	291	MIN.
AC. FT.	19540	37180	31980	26070	54050	46520	38910	34270	107900	8539	9860	38580	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
626	4940	12.35	6	16	0130	25	5.37	7	1	1615	453400

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-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	214	610 E	659	505	457	529	1340	291 *	734	291	130 *	305	1
2	212 *	590 E	663 *	502	1350	519	980	283	730	217	138	324	2
3	221	600 E	723	505 *	1610	505 *	917	291	734	193 *	159	338 *	3
4	229	591 *	773	509	772	512	674	294	888 *	181	175	505	4
5	234	652	711	505	1200	532	663	294	852	181	175	522	5
6	234	678	689	505	872	549	689	313	800	177	200	532	6
7	234	678	681	509	1040 *	570	616	319	1470	172	193	509	7
8	239	685	681	505	1070	946	780	288	1980	170	170	505	8
9	282	674	678	536	1430	869	1190	288	2030	181	172	515	9
10	768	667	681	519	1470	602	1230	272	2900	186	186	509	10
11	930	659	630	499	1590	667	984	267	3750	181	170	515 *	11
12	800	656	616	496	2100	577	950	267	4130	188	172	580	12
13	757	652	619	496	2330	560	950	431	3760	184	166	627	13
14	404	656	609	489	2920	1040	950	612	3540	186	170	689	14
15	259	652	605	489	2070	670	909	726 *	3850	190	168	704	15
16	241	648	602	482	1740	609	860	757	4120	200 *	172	761	16
17	231	630	556	476	1710	670	840	757	3440	219	179	753	17
18	231	627	522	469	1230	567	872 *	773	2100 *	166	195	734	18
19	224	634 *	502	469	905	542	921	780	1180	159	231	734	19
20	226	634	489	473 *	812	536 *	868	773	788	155	249	757	20
21	229	641	489	466	773 *	536	856	788	719	157	246	757	21
22	226	646	489	469	757	995	765	828	776	159	226	800	22
23	221	659	482	466	742	761	549	860	800 *	166	207	836	23
24	224	667	479	469	726	602	502	917	776	144	224	860	24
25	221	667	479	463	704	934	450 E	860	738	142	221	901	25
26	272	659	479 *	469	719	1940	370 E	864	704	140	231	925	26
27	482 E	652	482	473	584	1890	340 E	864	652	140	212	892	27
28	523 E	663	496	479	539	1800	310 E	840	373	134	202	972	28
29	530 E	659	496	479		1780	310 E	824	310	114	212	1040	29
30	542 E	678	496	479		1800	290 E	796	288	134	231	1031	30
31	720 E		499	457		1780		749		132	270		31
MEAN	366	649	582	487	1222	884	764	590	1664	172	195	681	MEAN
MAX.	930	685	773	536	2920	1940	1340	917	4130	291	270	1040	MAX.
MIN.	212	590 E	479	457	457	505	290	267	288	114	130	305	MIN.
AC. FT.	22530	38610	35810	29960	67880	54330	45470	36270	99000	10590	12000	40530	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
681	4211	18.80	6	12	1900	95.8	10.57	7	29		493000

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
1975	B05525	MUSTANG CREEK NEAR BALLICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.1	0.0	0.0	0.0	0.0	0.4 *	0.0 *	0.0	0.0	0.0 *	0.8	1
2	0.0 *	0.0	0.0 *	0.0	0.8	0.0	0.2	0.4	0.1	0.0	0.0	0.0	2
3	0.0	0.0	0.4	0.0 *	0.9 *	0.0 *	0.1	0.3	0.0	0.0 *	0.0	0.0 *	3
4	0.0	0.0 *	1.3	0.0	0.6	0.0	0.0	0.0	0.0 *	0.0	0.0	0.0	4
5	0.0	0.0	0.9	0.0	0.4	0.2	0.6	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.4	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.1	0.0	0.0 E	0.3	0.3	0.0	0.0	0.0	0.0	0.0	7
8	0.4	0.0	0.0	0.0	0.0 E	0.3	1.5	0.0	0.3	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0 E	0.1	2.3	0.0	0.0	0.1	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0 E	0.0	1.9	0.0	0.1	0.1	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0 E	0.0	1.5	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0 E	0.0	1.1	0.0	0.8	0.0	0.2	0.0	12
13	0.0	0.0	0.0	0.0	0.0 E	0.0	0.9	0.0	0.5	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0 E	2.8	0.8	0.0	0.1	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0 E	4.6	0.6	0.0 *	0.1	0.0	0.2 *	0.0	15
16	0.3	0.0	0.0	0.0	0.0 E	6.6	0.4	0.0	0.0	0.0	0.0	0.0 *	16
17	0.0 *	0.0	0.0	0.0	0.0 E	5.4	0.3	0.0	0.1	0.0	0.0	0.0	17
18	0.0	0.0	0.0 *	0.0	0.0 E	3.5	0.2 *	0.0	0.0 *	0.0	0.0	0.1	18
19	0.0	0.0 *	0.0	0.0	0.0 E	2.3	0.0	0.0	0.0	0.4	0.2	0.3	19
20	0.0	0.0	0.0	0.0 *	0.0 E	1.4 *	0.0	0.0	0.0	0.0	0.1	0.5	20
21	0.0	0.0	0.0	0.0	0.0 *	1.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.3	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	9.3	0.0	0.0	0.1	0.0	0.0	0.0	23
24	0.6	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.3	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.1	0.0	25
26	0.1	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.1	0.6	0.3	0.0	26
27	0.0	0.0	0.0	0.1	0.0	2.8	0.0	0.3	0.0	0.4	0.0	0.0	27
28	0.2	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.2	0.0	0.0	28
29	0.3	0.0	0.0	0.0		1.7	0.0	0.0	0.0	0.4	0.0	0.0	29
30	0.1	0.0	0.0	0.0		1.2	0.0	0.0	0.0	0.1	0.0 *	0.0	30
31	0.0		0.0	0.0		0.7		0.0		0.0	0.3		31
MEAN	0.1	0.0	0.1	0.0	0.1	2.3	0.5	0.0	0.1	0.1	0.0	0.1	MEAN
MAX.	0.6	0.1	1.3	0.1	0.9	9.3	2.3	0.4	0.8	0.6	0.3	0.8	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	5	0	6	0	5	141	27	2	5	5	3	3	AC. FT.

E — ESTIMATED
NB — 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
0.3	9.6	1.46	3	23	0500	0		10	1		203

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. Flood control structure installed one-half mile upstream in 1973.

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
1975	B08735	ORESTIMBA CREEK BELOW HIGHWAY 33

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23	0.6	0.1	0.0	1.0	22	16	17	24	40	17	7.5	1
2	28	0.2	1.1	0.0	0.1	34	13	16	31	46	11	13	2
3	19 *	0.1	1.5 *	0.0 *	0.0	0.6	8.7 *	17	12	25 *	11	27	3
4	8.0	0.0	1.1	0.0	0.0	1.0	6.0	16	13	29	7.5 *	6.5 *	4
5	14	0.0	0.2	1.0	0.0	46	49	16 *	10	16	7.8	4.4	5
6	10	0.8 *	0.0	0.7	0.0	69 *	123	16	11 *	33	9.8	3.0	6
7	15	0.5	0.0	0.5	0.0	45	103	19	10	17	14	4.9	7
8	19	0.2	0.0	0.4	0.0	220	78	19	9.8	17	14	2.7	8
9	5.6	0.1	0.0	1.3	0.0	237	55	18	26	16	13	1.5	9
10	0.7	0.1	0.0	1.8	41	83	26	15	11	16	17	14	10
11	0.2	0.1	0.0	1.9	40	46	8.6	21	13	19	16	36	11
12	0.1	0.1	0.0	1.7	3.8	24	15	32	24	19	16	28	12
13	0.0	0.0	0.0	1.2	6.9	87	11	9.4	11	32	15	9.0	13
14	0.0	0.0	0.0	1.7	132	140 *	16	7.2	11	53	14	44	14
15	0.0	0.0	0.0	1.1	25	78	48	9.7	11	30	14	55	15
16	0.0	0.0	0.0	0.7	3.4	68	30	12	9.8	67	12	22	16
17	0.0	0.0	0.0	0.1	0.0	110	49 *	25	17	17	15	42	17
18	0.0	0.0	0.0	1.7	0.0	69	22	27	43	26	41	19	18
19	0.0	0.0	0.0	1.9	0.0	82	13	50 *	31	74	70	0.9	19
20	0.0	0.0	0.0	1.1	0.0	52	11	5.6	26	43	69	1.9	20
21	0.0	0.0	0.0	1.6	0.0	38	14	42	19	74	57	5.4	21
22	0.4	0.0	0.0	1.4	0.0	143	17	65	32	37	46	3.3	22
23	0.9	0.0	0.0	2.2	0.0	147	19	30	37	18	20	25	23
24	0.6	0.0	0.0	2.2	0.2	113	22	17	16	17	39	34	24
25	0.3	0.1	0.0	1.4	0.2	57	17	16	26	17	24	16	25
26	1.4	0.1	0.0	0.5	0.1	40 *	20	19	58	17	2.7	15	26
27	0.5	0.4	0.0	0.3	0.4	25	18	22 *	40	26	2.9	15	27
28	0.2	0.8	0.0	1.3	7.9	117	33	18	35	19	6.2	24	28
29	1.1	0.6	0.0	0.9		90	21	16	54	18	14	52	29
30	0.6	0.3	0.0	1.1		96	17	6.8	32	32	37	13	30
31	1.3		0.0	1.4		34		4.9		18	49		31
MEAN	4.8	0.2	0.1	1.1	9.4	77.9	30.0	21.1	23.5	29.9	22.7	16.2	MEAN
MAX.	28	0.8	1.5	2.2	132	237	123	85	58	74	70	55	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.6	6.0	4.9	9.8	16	2.7	0.9	MIN.
AC. FT.	297	10	8	66	520	4787	1784	1295	1396	1841	1396	1081	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
20	437	5.31	3	8	2130	0.0	0.85	10	14	2130	14480

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	2650E	12.08	2-1-63	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. Drainage area is 196 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	980	1200	1070	864	1150	1270	3270	1270	1450	1080	773	1110	1
2	991	1260	1060	850	1180	1280	2850	1180	1540	1080	746	1130	2
3	1010 *	1290	1110 *	839 *	1390	1240	2410 *	1130	1500 *	1040 *	770	1160	3
4	1040	1310	1230	839	2200	1190	2170	1170	1480	1010	796 *	1160 *	4
5	1030	1280	1410	833	2810	1220	2060	1120 *	1490	1020	794	1210	5
6	947	1260 *	1500	833	3380	1350	2010	1070	1450	1020	784	1220	6
7	965	1270	1520	841	3690 *	1500	2070	1110	1360	988	800	1220	7
8	968	1290	1470	844	3820	1710	2220	1050	1580	936	811	1180	8
9	921	1300	1400	852	3750	2030	2290	1010	1950	936	796	1200	9
10	888	1300	1330	869	3500	2170	2570	981	2130	910	830	1210	10
11	988	1290	1290	938	3440	2080	2800	1010	2450	867	860	1290	11
12	1140	1290	1260	977	3320	2150	2840	1050	3000	837	832	1360	12
13	1190	1260	1220	971	3690	2160	2660	1010	3430	831	793	1380	13
14	1190	1240	1220	957	4170	2160	2510	1030	3650	865	796	1460	14
15	1120	1260	1210	958	4420	2220	2360	1130	3680	889	817	1570	15
16	987	1250	1190	958	4340	2320	2080	1260	3750	940	823	1560	16
17	919	1250	1160	957	4000	2300	1930 *	1360	3910 *	951	924	1570	17
18	863	1250	1130	956	3620	2250	1830	1430	3940	967	1030	1550	18
19	843	1240	1070	951	3120	2190	1880	1500 *	3420	957	1100	1450	19
20	827	1230	1020	991	2540	2140	2000	1500	2550	937	1080	1440	20
21	819	1220	979	1060	2130 *	2080 *	2020	1520	1930	912	1200	1480	21
22	850	1190	948	1120	1870	2030	1910	1580	1760	880	1270	1560	22
23	860	1170	926	1150	1730	2100	1850	1570	1710	849	1240	1580	23
24	846	1160	912	1180	1610	2330	1650	1550	1600	821	1220	1580	24
25	833	1150	901	1190	1530	2480	1540	1570	1580	782	1220	1640	25
26	817	1140	890	1180	1450	2730	1510	1570	1510	751	1180	1620	26
27	835	1120	887	1170	1380	3070	1500	1630	1420	731	1130	1590	27
28	947	1110	889	1150	1340	3510	1500	1540	1350	744	1090	1660	28
29	1050	1100	892	1150		3720	1390	1490	1280	775	1050	1760	29
30	1100	1080	879	1160		3810	1310	1470	1170	787	1060	1850	30
31	1130		870	1150		3640		1430		778	1120		31
MEAN	964	1225	1124	992	2735	2209	2100	1300	2167	899	959	1425	MEAN
MAX.	1190	1310	1520	1190	4420	3810	3270	1630	3940	1080	1270	1850	MAX.
MIN.	817	1080	870	833	1150	1190	1310	981	1170	731	746	1110	MIN.
AC. FT.	59290	72910	69110	60970	151900	135800	125000	79920	129000	55280	58980	84790	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
1496	4450	40.52	2	15	1615	712	32.77	7	27	1615	1083000

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 OF GAGE	REF. DATUM
37 29 40	121 04 50	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 on 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
1975	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1600 *	2910 *	1020	2130	3470	972	630	317	314	80	80	139	1
2	1070	3510	1180 *	1740	1790	1020	551	304 *	131	77	118	137	2
3	1050	3300	1560	3890	1420	1290	342	325	109	76 *	120	228 *	3
4	862	3170	1280	3340	2700	1960	328	331	107 *	78	103 *	517	4
5	536	1300	1490	2120	2520	1960	476	329	249	79	247	939	5
6	482	781	1550	1800	2410	2280 *	417	331	286	87	226	988	6
7	451	783	1530	3710	2360 *	2160	486	333	163	73	115	1060	7
8	462	800	1540	3310 *	1840	1740	641 *	388	126	85	101	757	8
9	422	816	1500	3530	1260	1030	581	338	119	106	158	704	9
10	390	848	1550	3700	1260	1440	489	337	282	116	137	912	10
11	544	865	1560	3170	2170	2300	371	332	355	196	112	697	11
12	495	864	1610	1940	2090	916	333	329	178	156	198	1050	12
13	307	889	1580	1710	2430	704	330	389	132	92	142	995	12
14	111	910	1590	3840	2390	942	329	522	261	80	116	685	14
15	279	993	1600	3970	1920	742	330	336 *	134	111	110	646	15
16	1500	1050	1500	4100	1170	761	326	331	116	92	114	633	16
17	1490	1090	1070	4200	674	748	327	330	105	82	119	628	17
18	1480	1110	1010	3690	1230	913	330 *	331	106 *	112	197	731	18
19	1360	1110 *	1020	2380	2290	1830	330	324	107	89	277	1020	19
20	1600	1110	1250	1990 *	2450	2210 *	333	328	106	81	160	677	20
21	1670	1120	1470	4390	2510	2110	324	319	102	81	119	627	21
22	2540 *	1120	942	4290	2070	1920	325	319	103	111	160	637	22
23	2670	1110	939	4390	1150	1010	324	315	105	480	134	973	23
24	2660	1120	1660	4160	1310	1240	324	379	97	307	129	1070	24
25	2650	1120	2110	3280	2070	1820	323	317	103	250	127	1300	25
26	2530	1100	1710 *	1920	1590	825	329	309	101	272	181	1340	26
27	2380	1000	3580	1950	825	702	335	304	97	130	140	1120	27
28	2490	947	3230	4240	709	664	323	440	97	103	133	753	28
29	2670	859	2200	4300		631	325	542	94	114	132	616	29
30	2460	1000	1740	4320		635	320	588	87	97	132	708	30
31	2360		3440	4360		639		508		89	139		31
MEAN	1406	1290	1646	3286	1860	1294	381	362	149	128	144	776	MEAN
MAX.	2670	3510	3580	4390	3470	2300	641	588	355	480	277	1340	MAX.
MIN.	111	781	939	1710	674	631	320	304	87	73	80	137	MIN.
AC. FT.	86420	76770	101200	202000	103300	79570	22680	22260	8870	7898	8878	46190	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
1058	7070	74.92	2	1	0330	70	69.61	7	7	1900	766000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 35 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13	USCGS

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

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

WATER YEAR	STATION NO.	STATION NAME
1975	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	106	134	144	14	17	24	69 *	82	77	147 *	79	88	1
2	105	123	176 *	14	16	26	59	95	83	89	84	85	2
3	113	112	204	16 *	407	43	66	100	82	93	79	83 *	3
4	104	107	188	16	343 *	71	79	106	81 *	83	81 *	85	4
5	106	105	279	14	342	74	70	103	75	80	80	107	5
6	107	107	247	17	179	74	206	98	76	85	72	98	6
7	106	109 *	231	20 *	93	63	298	105	84	146	68	92	7
8	103 *	152	224	18	83	112	228	86	73	138	75	93	8
9	99	227	218	17	122	315	200	87	77	61	76	94	9
10	103	226	218	22	704	186 *	161	79	77	74	75	94	10
11	111	224	240	36	282	155	122	94	85	80	76	90	11
12	106	223	242	26	110	132	109	87	86	85	87	96	12
13	112	223	236	21	119	100	102	82	91	90	78	89	13
14	105	201	232	18	827 *	629 *	94	81	77	77	72	71	14
15	95	148	227	20	279	450	85	65	70	77	70	81	15
16	127	149	222	18	98	213	80	80	103	78	81	89	16
17	110	142	220	15	66	652	89	78	170	75	77	89	17
18	103	156	218	14	55	197	100	69	78	80	89	84	18
19	100	194	215	14	48	125	95	65	86	82	136	95	19
20	94	52	214	14	43	107	98	77	96	88	122	94	20
21	103	29	102	15 *	41 *	102 *	106 *	79	96	91	111	105	21
22	282	25	30	15	47	393	104	75	101	118	106	102	22
23	390	24	25	15	42	797	101	81	143	106	91	99	23
24	397	24	32	14	38	279	96	82	160	79	91	104	24
25	390	24	20	15	35	240	92	81	84	75	102	94	25
26	223	23	17	14	34	530 *	109	77	88	71	105	91	26
27	178	23	17	13	32	246	114	68	91	82	106	102	27
28	171	24	18	14	27	139	95	68	86	82	83	96	28
29	156	24	16	14		104	103	72	79	82	82	90	29
30	119	28	15	13		89	90	75	126	82	81	90	30
31	121		15	13		79		74		77	87		31
MEAN	150	112	152	16.7	162	218	114	82.3	92.7	89.5	87.2	92.3	MEAN
MAX.	397	227	279	36	827	797	298	106	170	147	136	107	MAX.
MIN.	94	23	15	13	16	24	59	65	70	71	68	71	MIN.
AC. FT.	9213	6668	9326	1029	8983	13380	6783	5060	5516	5500	5359	5494	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
114	1350	76.05	3	23	0030	12	67.54	1	31	1400	82310

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 39 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-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	804105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2010	2800	1610	2520	3070	1050	1170	558	659	339	305	321	1
2	1850	3090	1690	1770	2520	1230	1010	558	564	292 *	295	318	2
3	1590	3310	1900 *	1980 *	1690	1150	832 *	567	427 *	287	315	292	3
4	1550 *	3240	2010	2800	2210 *	1490	672	586	360	292	334 *	360 *	4
5	1400	3010	1770	2650	2460	1810 *	662	595 *	344	308	321	582	5
6	1240	2100 *	1980	1890	2550	1990	769	582	410	342	413	818	6
7	1200	1680	2070	2100	2450	2170	874	592	461	336	410	943	7
8	1170	1620	2070	2830	2420	2230	943	573	401	366	313	957	8
9	1140	1680	2070	2800	2110	2060	1150	598	366	323	308	846	9
10	1010	1690	2050	2890	2000	1770	1110	561	339	295	339	839	10
11	965	1700	2080	2940	2220	2000	939	586	467	313	344	892	11
12	1040	1690	2100	2640	2290	2300	776	579	561	382	313	881	12
13	996	1700	2110	1830	2330	1650	709	567	491	377	352	1000	13
14	835	1700	2110	2060	2780	1640	669	620	506	334	342	976	14
15	630	1660	2120	2840	3070	2150	627	672	643	270	297	864	15
16	817	1710	2130	2980	2470	1660	598 *	589 *	636	313	295	857	16
17	1650	1740	1890	3020	1880	1840	582	570	709	303	318	769	17
18	1740	1750	1550	3070	1450	1700	601	582	702	297 *	344	780	18
19	1730	1790	1480	2800	1710	1660 *	601	561	630	310	617	860	19
20	1710	1740 *	1460	1910	2100 *	2120	620	545	430	300	699	954	20
21	1820	1660	1610	2170 *	2130	2290	614	582	344	300	503	853	21
22	2010	1650	1490	2930	2140	2330	579	542	344	270	374	804	22
23	2710	1620	1200	3030	1830	2670	570	542	318	313	368	835	23
24	3070	1620	1260	3060	1320	2000	576	554	363	567	344	994	24
25	3130	1620	1700	2970	1520	1960	620	589	313	536	328	1090	25
26	3110	1620	1630	2520	1830	2260	579	554	285	476	323	1210	26
27	2970	1610	1840 *	1700	1530	1840	624	533	297	479	350	1250	27
28	2890	1540	2560	2090	1160	1490	598	521	297	385	347	1140	28
29	2900	1480	2450	2860		1320	567	620	300	344	305	954	29
30	2940	1450	1830	2990		1290	567	695	285	328	305	835	30
31	2870		1970	2990		1310		725		318	318		31
MEAN	1830	1910	1860	2570	2120	1820	727	584	442	345	359	836	MEAN
MAX	3130	3310	2560	3070	3070	2670	1170	725	709	567	699	1250	MAX.
MIN.	630	1450	1200	1700	1160	1050	567	521	285	270	295	318	MIN.
AC. FT.	112500	113600	114600	157900	117500	111900	43260	35900	26280	21210	22090	49730	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
1280	3350	31.04	11	3	2115	263	23.25	7	15		926500

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	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-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3160 *	4180	2810	3150	4320	2690	4670	[illegible]	2220	1490	1020	1640	1
2	3130	4410	2890	2880	4210	2730	4230	1850 *	1860	1350 *	983	1600	2
3	2890	4780	3060 *	2520	3450	2810	3570	1850	1750 *	1320	1000	1640	3
4	2840	4890 *	3390	3400	3850 *	272[illegible]	3120 *	1800	1510	1320	1060	1630	4
5	2750	4770	3310	3500	[illegible]030	3160 *	2920	1870	2130 *	1340	1010 *	1830	5
6	2550	4000	3510	3070	[illegible]550	3455	2920	1720	1690	1390	1010	2060	6
7	2470	3330	3700	2660	6090	3[illegible]90	3060	1730	1620	1370	1060	2210	7
8	2460	3190	3690	3600 *	6250	423[illegible]	3200	1660	1770	1310	1080	2280	8
9	2400	3220	3630	3640	6060	43[illegible]	3570	1660	2140	1330	1090	2220	9
10	2250	3250	3520	3720	5600	431[illegible]	3710	1630	2180	12[illegible]	1110	2190	10
11	2200	3230	3450	3830	[illegible]630 *	4260	3740	1690	2540 *	1180	1180	2320 *	11
12	2430	3230	3440	2740	[illegible]	4790	3650	1650	2870	1200	1160	2380	12
13	2540	3250	3410	3140	[illegible]	4420	3500	1530	2960	1210	1130	2510	13
14	2490	3260	3380	2760	6520	4220	3320	1590	3200	1180	1110	2520	14
15	2280	3220	3350	3590	7430	4720	3170	1770	3410	1140	1100	2560	15
16	2180	3210	3340	3800	7000	4[illegible]70	2970 *	1860 *	3720	11[illegible]0	1120	2600	16
17	2690	3210	3180	3900	6270	4490	2690	1950	3790 *	1240	1240	2560	17
18	2820	3200	2780	3930	5410	4580	2640	2120	4040	1240 *	1520	2570	18
19	2800	3200	2620	3780	5180	4460 *	2610	2150	3950	1300	1850	2560 *	19
20	2720	3180 *	2520	3190	5230	4810	2690	2260	3480	1320	1900	2680	20
21	2800	3060	2520	2800 *	4840	5000	2740	2280	2590	128[illegible]	1830	2670	21
22	2870	3040	2490	3840	4570	5000	2620	2320	2310	1160	1800	2680	22
23	3390	2970	2190	4065	4260	5280	2570	2260	2230	1070	1840	2700	23
24	3890	2940	2100	4170	3640	5100	2460	2230	2150 *	1140	1810	2790	24
25	4020	2930	2360	4160	3380	4930	2310	2280	2050	1250	1720	2870	25
26	4050	2920	2470	3910	3770 *	5270	2260	2240	1950	1110	1560	3020	26
27	3960	2880	2300 *	3230	3490	5250	2290	2340 *	1850	1130	1530	3090	27
28	3980	2830	2990	2950	2950	5020	2280	2250	1730	1050	1510	3090	28
29	4060	2780	3080	3900		5020	2160	2190	1660	1030	1470	3010	29
30	4220	2710	2790	4150		4990	2010	2170	1590	1030	1480	2960	30
31	4240		2480	4260		5120		2200		1070	1600		31
MEAN	3020	3380	2990	3460	5070	4370	2990	1970	2430	1220	1350	2450	MEAN
MAX.	4240	4790	3700	4260	7430	5280	4670	2320	4040	1490	1900	3090	MAX.
MIN.	2180	2710	2100	2520	2950	2690	2010	1530	1510	1030	983	1600	MIN
AC. FT	185500	200900	184000	212700	281300	268900	177800	121400	144700	75330	83070	145700	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
2870	7470	22.40	2	15	1035	931	14.28	8	6		2081000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 38 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.	DAY
1	35	74	1210	112	44	925	1400 *	171	6330	39 *	50 *	33	1
2	39	69	1210 *	105	59	921	1100	880	7190 *	222	44	33	2
3	37	63	1250	115 *	97	640	887	2140	6370	277	41	31 *	3
4	37	67	1240	107	839 *	89	779	2530	4730 *	194	43	27	4
5	33	96	1170	112	1970	65	769	2650	6210 *	247	41	30	5
6	34	167	1160	121	1950	64	876	2760 *	5870	192	45	29	6
7	37	181 *	1150	111	1850	65	925	2750	5990	455	40	26	7
8	40 *	181	1140	132	1710	206	1080	2690	5970	722	33	28	8
9	37	194	1140	127	1980	868	1130	2330	5650	382	32	30	9
10	35	192	1130	121	2020	858 *	1130	1820	4500	106	35	29	10
11	41	190	1130	115	1950	1290	1150	1810	2840 *	50	39	27	11
12	44	188	1120	116	1920	1760	1150	2070	1740	53	33	30	12
13	41	182	1120	112	2140	1850	1140	2430	3260	50	30	28	13
14	36	180	1110	113	1990	1890	940	2230	3890	46	32	27	14
15	36	185	1100	110	1910	1780	706	2300	3820	51	32	26	15
16	32	179	1100	105	1900	2050	544	2290 *	3810 *	59	30	28	16
17	33	174	1100	104	1890	1790	472	2320	3620	60	28	26	17
18	33	171	1090	106	1860	1770	425	2350	3240	54	39	23	18
19	32	156	1080	106	1880	1750	368	2430	1630	54	42	24	19
20	32	157	919	100	1850	1750	345	2500	447	48	33	30	20
21	37	150	429	107 *	1670 *	1760	348	2490	140	47	29	34	21
22	38	212	370	101	1660	2160	399	2440	69	48	28	32	22
23	315	602	363	104	1660	1810	391	2400	54	47	23	32	23
24	424	710	281	102	1860	1840	396	2340	48 *	39	22	33	24
25	575	870	83	102	1640	1910	398	2400	46	37	23	33	25
26	535	1200	67	99	1060	1810	393	2450	45	41	24	29	26
27	538	1210	69	103	933	1780	391	2530	48	44	35	29	27
28	519	1210	71	101	928	1770	392	2570	51	48	38	29	28
29	423	1210	98	102		1770	330	2600	45	47	38	29	29
30	85	1210	116	79		1630	314	2710	40	43	36	34	30
31	80		117	50		1440		4750		49	32		31
MEAN	138	388	798	106	1567	1357	702	2359	2923	127	34.5	29.3	MEAN
MAX.	575	1210	1250	132	2140	2160	1400	4750	7190	722	50	34	MAX.
MIN.	32	63	67	50	44	64	314	171	40	37	22	23	MIN.
AC FT.	8515	23070	49060	6545	87020	83430	41790	145100	173900	7837	2122	1743	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
870	7550	13.88	6	2	1815	20	1.52	8	23	1700	630100

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 APR 40-DATE				117.21	USC&GS

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.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B0311E	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	505	420	1090	271	180	1140	1610	706	3870	454 *	387 *	434	1
2	471	393	1110 *	261	173	1120	1450	614	4130 *	418	380	363	2
3	439	352	1220	255	169	1060	1300	902	5040	424	315	299	3
4	425	329	1340	249	181	913	1100 *	1930	6290	547	340	314 *	4
5	455	316	1300	246	438	761	1300	2380	5860	497	351	284	5
6	406	313 *	1260	240	1310	664 *	1060	2550 *	5740	607	306	296	6
7	386	336	1310	243 *	1590	614	1120	2750	6030	574	320	361	7
8	397 *	361	1310	234	1650	651	1310	2810	6110	623	352	440	8
9	375	343	1310	234	1610	627	1130	2620	6150 *	809	380	426	9
10	396	293	1300	242	1780	919	1100	2560	5990	684	369	346	10
11	409	279	1300	233	1850 *	1010	1530	2100	5430	489	375	339	11
12	444	273	1300	228	1620	1260	1480	2130	4030	434	339	332	12
13	501	269	1300	224	1840	1620	1460	2240	2650	459	354	285	13
14	542	267	1310	221	2090	1940	1420	2550	3320	405	299	270	14
15	550	291	1300	218	2000	2020	1220	2450	3960	379	319	329	15
16	433	332	1300	218	1670	1940	1000	2460 *	4100 *	367	323	352	16
17	395	412	1300	212	1640	2110	980	2450	4140	351 *	356	304	17
18	347	420	1300	210	1630	1950	909	2510	4060	398	412	297	18
19	307	431	1290	207	1620	1900	816	2520	3740	378	468	336	19
20	299	406	1290	206	1620	1890	801	2620	2420	412	513	393	20
21	312	311	1180	204	1620	1890	836	2790	1390	427	488	407	21
22	309	386	756	203	1810	1970	800	2730	1080	385	465	430	22
23	297	280	591	202	1810	2210	700	2620	903	372	393	385	23
24	301	424	538	199	1610	2010	624	2580	825	355	421	352	24
25	424	618	511	198	1870	1980	646	2630	677	335	357	361	25
26	578	697	442	196	1850	2030	821	2610	581	326	284	310	26
27	561	926	363	195	1360	1930	914	2640	549	370	353	345	27
28	529	1010	326	192	1180	1850	864	2710	543	396	379	314	28
29	522	1050	307	194		1850	817	2710	545	385	356	354	29
30	498	1070	295	191		2020	779	2770	523	386	325	356	30
31	434		282	187		1910		2890		386	377		31
MEAN	427	452	1004	220	1478	1542	1109	2382	3395	446	370	347	MEAN
MAX.	578	1070	1340	271	2090	2210	1610	2890	6290	609	513	440	MAX.
MIN.	297	267	282	187	169	614	779	614	523	326	284	270	MIN.
AC. FT.	26280	26890	61750	13520	82060	94610	65970	146400	202000	27440	22770	20660	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
1092	6370	44.93	6	4	1015	167	27.08	2	3	1600	790600

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
1975	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3760	4710	3860	3580	4290	3830	6420	2510	4980	2030	1430	1930	1
2	3830	4830	4000	3480	4250	3750	5800	2360	5860	1930	1400	1790 *	2
3	3560	5140	4200	2850	3540 *	3850	5060	2330	6550	1860	1430	1770	3
4	3400	5240	4650	3680	3610	3580	4450	3090	7350	1930	1450	1710	4
5	3330	5180	4640 *	3890	4790	3750	4100	3660	7570	1970	1420	1890	5
6	3120	4580	4740	3550	6080	3930	3990	3690	7070	2040	1350	2130	6
7	2990	3860	5010	2920	6910	4270	4140	3910	7350	2030	1400	2380	7
8	2970	3680	5070	3770	7250	4640	4320	4060	7560	1910	1440	2500	8
9	2920 *	3670	5030	3880	7200	4860	4880	4000	7880	2020	1470	2460	9
10	2770	3660	4940	3940	6870	5000	5110	3960	8100	1980	1490	2340	10
11	2600	3610	4890	4050	6950	5060	5100	3670	8000	1740	1550	2470	11
12	2860	3600 *	4860	4060	7140	5610	4960	3570	7510	1680	1520	2570	12
13	3040	3610	4840	3590	7110	5800	4740	3440	6030	1680	1440	2770	13
14	3040	3640	4830	2950	7800	5730	4560	3690	6120	1630	1400	2800	14
15	2940	3590	4840	3740	8820	6350	4240	3840	7160	1560	1350	2800	15
16	2690	3620	4840	4020	8670	6300	3880	3970	7740	1550	1340	2910	16
17	3020	3680	4730	4120	7950	6230	3470	4070	7840	1650	1480	2810	17
18	3220	3670	4350	4160	7120	6380	3340	4240	8040	1670	1850	2760	18
19	3140	3670	4130	4080	6710	6070	3220	4340	7810	1760	2270	2790	19
20	3060	3660	4010	3610	6830	6330	3240	4350	6600	1780	2420	2940	20
21	3080	3480	3940	2990	6610	6590	3310	4550	4380	1760	2300	2980	21
22	3140	3400	3690	3940	6300	6620	3190	4650	3480	1620	2230	2980	22
23	3560	3340	3130	4230	6010	7070	3070	4550	3130	1460	2220	2950	23
24	4120	3340	2870	4350	5410	7040	2970	4470	2860	1470	2200	3010	24
25	4380	3500	3080	4340	5030	6530	2890	4530	2700	1630	2090	3060	25
26	4560	3600	3250	4140	5460	6930	2900	4580	2440	1490	1760	3210	26
27	4570	3740	2890	3550	4990	7010	2950	4540	2330	1550	1710	3250	27
28	4530	3830	3560	3000	4240	6740	2970	4590	2290	1500	1710	3250	28
29	4620	3830	3740	3880		6630	2810	4580	2260	1440	1640	3210	29
30	4770	3760	3470	4150		6820	2630	4630	2240	1460	1620	3150	30
31	4820		2930	4270		6920		4700		1490	1740		31
MEAN	3497	3891	4162	3766	6212	5685	3957	3972	5708	1718	1680	2652	MEAN
MAX.	4820	5240	5070	4350	8820	7070	6420	4700	8100	2040	2420	3250	MAX.
MIN.	2600	3340	2870	2850	3610	3580	2630	2330	2240	1440	1340	1710	MIN.
AC. FT.	215000	231500	255900	231600	345000	349500	235500	244200	339600	105700	103300	157800	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
3888	9080	18.60	2	15	1845	1340	10.24	8	16	1815	2815000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 40 34	121 15 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, 2.4 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.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B71408	MUSICK CREEK #2 NEAR SHAVER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	.030	.301	.081	.217	.392 E	1.31	1.85	2.85	1.31	.435	.301	.100	1
2	.100	.217	.081	.236	1.05	1.14	1.85	3.42	1.31	.483	.217	.081	2
3	.081	.178	2.14	.236	.347	.966	1.85	3.86	1.31	.463	.217	.061	3
4	.100	.158	3.86	.236	.301	.968	1.71	3.42	1.23	.438	.236 *	.061	4
5	.120	.139	.574	.236	.342	2.42	1.40	2.[illegible]5 *	1.14	.392	.217	.045 *	5
6	.100	.120	.301 *	.665	.392	3.64	1.48	2.71	1.05	.392	.236	.045	6
7	.045 *	.120	.236	.710	.528	3.86 *	1.46	2.99	1.05	.347 *	.217	.061	7
8	.120	.120 *	.217	1.23	1.05	4.94	1.46	3.86	1.05	.301	.178	.061	8
9	.081	.120	.198	.665	3.86	2.26	1.40	4.29	.968 *	.301	.178	.081	9
10	.100	.120	.217	.528	2.14	1.85	1.40	4.73	.968	.301	.196	.081	10
11	.100	.120	.198	.438	1.71	1.48	1.[illegible]	4.73	.96[illegible]	.301	.178	.061	11
12	.045	.120	.198	.392	1.31	1.40	1.40	5.16	.[illegible]	.301	.178	.081	12
13	.045	.100	.198	.392	3.21	1.31	1.71	5.47	.7[illegible]	.301	.178	.081	13
14	.045	.100	.178	.347	2.00 E	1.23 E	2.14 *	5.47	.7[illegible]	.217	.178	.100	14
15	.045	.100	.178	.347	1.31 E	1.31 E	1.71	4.94	.[illegible]	.256	.178	.100	15
16	.015	.100	.198	.347	1.14 E	1.31 E	1.48	4.51	.796	.392	.178	.100	16
17	.030	.178	.198	.347	.968 E	1.14 E	1.40	4.08	.796	.438	.178	.081	17
18	.061	.217	.198	.347	.710 #	1.23 E	1.40	3.86	.882	.392	.198	.061	18
19	.081	.217	.198	.347	.665	1.40 E	1.40	3.64 *	.968	.347	.217	.061	19
20	.081	.217	.198	.347	.710	1.85 E	1.85	3.21	.968 *	.347	.217	.045	20
21	.061	.528	.217	.347	.619	1.71 E	2.28	2.85	.882	.347	.178	.061	21
22	.045	.528	.217	.347	.619	1.57 E	2.42	2.71	.796	.301	.158	.045	22
23	.061	.178	.217	.347	.619	1.40 E	2.42	2.42	.665	.301	.158	.030	23
24	.061	.139	.198	.347	.665	1.71 E	3.86	2.42	.619	.301	.158	.061	24
25	.081	.139	.198	.347	.665	5.47 E	5.47	2.28	.619	.256	.139	.030	25
26	.120	.120	.198	.301	.710	2.85 E	2.71	2.14	.619	.236	.139	.061	26
27	.139	.120	.198	.256	.968	2.56 E	2.56	1.85	.574	.236	.120	.100	27
28	.392	.100	.256	.236	1.23	2.28 E	2.71	1.85	.619	.301	.100	.081	28
29	.217	.100	.217	.236		2.28 E	2.85	1.71	.528	.256	.100	.045	29
30	.158	.081	.217	.236		2.14 E	2.99	1.48	.483	.301	.100	.030	30
31	.217		.217 *	.256		2.00 #		1.40		.301	.100		31
MEAN	.096	.170	.393	.383	1.08	2.03	2.07	3.33	.884	.332	.178	.066	MEAN
MAX	.392	.528	3.86	1.23	3.86	5.47 E	5.47	5.47	1.31	.483	.301	.100	MAX.
MIN	.015	.081	.081	.217	.301	.966	1.31	1.40	.483	.217	.100	.030	MIN.
AC. FT.	5.90	10.1	24.2	23.5	60.0	125 E	123	205	52.6	20.4	11.0	3.95	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
.917	19.0	1.83	4	24	2215	0	0.99	10	16		664.2

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 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 1.3 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B71406	MUSICK CREEK #1 NEAR SHAVER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	.013	.481	.157	.430	.797	2.59	3.78	9.64	4.88	1.80	.583	.224	1
2	.062	.224	.157	.430	2.59	2.20	3.78	10.6	4.33	1.69	.532	.224	2
3	.078	.141	10.1	.430	.635	2.00	4.61	11.0	4.33	1.69	.532	.378	3
4	.047	.532	10.1	.430	.635	1.80	4.06	10.6	3.58	1.69	.532 *	.157	4
5	.047	.532	1.69	.430	.797	6.32	3.19	8.54 *	3.58	1.58	.430	.157 *	5
6	.047	.157	1.02 *	2.00	.909	6.52	3.78	8.10	3.39	1.47	.430	.157	6
7	.047 *	.224	.686	1.47	1.02	8.54 *	3.39	8.76	3.19	1.35 *	.430	.157	7
8	.110	.378 *	.583	2.40	1.69	11.8	3.19	10.3	3.19	1.24	.378	.173	8
9	.094	.327	.532	1.58	7.69	6.32	3.39	11.8	3.19 *	1.24	.378	.276	9
10	.078	.327	.481	1.24	5.58	5.06	3.39	12.3	3.39	1.24	.378	.276	10
11	.062	.276	.481	1.02	5.06 E	3.78	2.90	12.8	3.19	1.13	.327	.224	11
12	.062	.224	.481	.909	4.06 E	3.58	3.78	13.6	2.79	1.13	.327	.224	12
13	.078	.224	.481	.797	6.52 E	2.59	4.33	13.8	2.90	1.02	.327	.173	13
14	.094	.224	.481	.797	4.33 E	2.79	4.88 *	13.3	2.79	1.02	.327	.157	14
15	.047	.224	.430	.797	3.39 E	2.59	4.06	12.3	2.59	1.02	.276	.157	15
16	.031	.173	.430	.797	2.79 E	2.59	3.19	11.8	2.59	1.13	.276	.141	16
17	.013	.224	.430	.797	2.20 E	2.00	2.90	10.8	2.59	1.24	.276	.141	17
18	.015	.224	.378	.797	1.69 *	2.20	2.79	10.6	2.40	1.24	.327	.141	18
19	.110	.276	.430	.797	1.58	2.59	2.90	10.1 *	2.40	1.13	.583	.141	19
20	.062	.276	.430	.797	1.47	3.78	4.61	9.42	2.20 *	1.02	.481	.126	20
21	.047	2.55	.430	.797	1.35	3.19	5.76	8.54	2.20	.909	.430	.110	21
22	.047	1.24	.430	.797	1.24	2.90	5.93	8.10	2.00	.797	.430	.094	22
23	.047	.481	.378	.797	1.35	2.20	6.52	7.69	1.80	.797	.378	.110	23
24	.047	.378	.327	.686	1.35	3.39	11.1	7.49	1.80	.797	.378	.110	24
25	.047	.327	.378	.686	1.47	13.3	14.8	7.10	2.00	.686	.327	.110	25
26	.062	.276	.378	.635	1.47	6.52	8.76	6.91	2.00	.635	.327	.110	26
27	.078	.224	.430	.583	1.80	4.61	7.69	6.32	2.00	.635	.430	.110	27
28	3.640	.224	.481	.532	2.20	3.78	8.32	5.76	2.40	.635	.378	.126	28
29	.635	.224	.481	.481		3.58	8.76	5.41	2.00	.635	.327	.126	29
30	.378	.173	.481	.481		4.06	9.42	5.23	1.69	.635	.276	.110	30
31	.909		.430 *	.481		4.06 *		5.23		.635	.276		31
MEAN	.23	.39	1.12	.84	2.42	4.30	4.56	9.48	2.78	1.09	.39	.16	MEAN
MAX	3.64	2.55	10.1	2.40	7.69	13.3	14.8	13.8	4.88	1.80	.583	.378	MAX.
MIN	.013	.141	.157	.430	.635	1.80	2.90	5.23	1.69	.635	.276	.094	MIN.
AC. FT.	14.2	23.3	68.6	51.8	134 E	264	271	583	165	67.2	24.0	9.8	AC. FT.

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

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
2.32	33.9	1.78	12	3	2300	.012	0.32	10	1		1676.7

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 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.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	C01120	KINGS RIVER, SOUTH FORK, BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0			0		0		0	86	0	21	21	1
2	0			0		0		0	186	0	21	21	2
3	0			0		0		0	206	0	21	21	3
4	0			0		0		0	209	0	7	21	4
5	0			0		0		0	213	0	0	21	5
6	0			15		0		0	192	0	0	13	6
7	0			29		0		0	206	0	54	0	7
8	0			41		0		0	220	0	146	20	8
9	0			50		0		0	222	0	152	45	9
10	0			50		0		0	213	0	149	56	10
11	0			50		0		0	102	13	173	56	11
12	0			47		0		0	19	21	185	56	12
13	0	N	N	50	N	0	N	0	6	19	165	56	13
14	7	O	O	52	O	0	O	0	0	6	128	56	14
15	15			37		0		0	0	27	134	56	15
16	15	F	F	19	F	0	F	0	23	37	91	56	16
17	15	L	L	19	L	0	L	10	54	78	0	66	17
18	5	O	O	21	O	0	O	20	54	119	19	73	18
19	0	W	W	19	W	0	W	14	41	122	21	70	19
20	0			34		0		0	31	122	21	59	20
21	0			41		0		0	11	125	21	43	21
22	0			41		0		0	0	131	13	40	22
23	0			41		0		0	0	131	0	37	23
24	0			41		0		0	0	83	41	37	24
25	0			29		0		0	0	0	97	29	25
26	0			0		0		0	0	0	88	28	26
27	0			0		0		0	0	0	66	28	27
28	0			0		0		0	0	0	24	26	28
29	0			0		13		0	0	14	26	27	29
20	0			0		15		0	10	21	22	28	30
31	0			0				0		21	22		31
MEAN	2			23		1		1	77	35	62	39	MEAN
MAX.	15			52		15		20	222	131	185	73	MAX.
MIN.	0			0		0		0	0	0	0	0	MIN.
AC. FT.	113			1440		56		87	4570	2162	3824	2313	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
20.1	222		6	9	Mean Daily	0		10	1		14565

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M O B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 10 48	119 50 00	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
1975	C02602	CROSS CREEK BELOW LAKELAND CANAL NO. 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													13
14													14
15						NO FLOW							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 OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 12 42	119 34 05	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
1975	C03913	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0				0	5	5	14	12	15	11	5	1
2	0				0	5	5	14	12	16	9	5	2
3	0				0	5	4	14	12	0	9	5	3
4	0				0	5	4	14	17	5	9	11	4
5	0				0	11	4	14	18	5	9	11	5
6	0				0	11	4	15	16	5	12	11	6
7	0				0	11	5	14	13	5	12	11	7
8	0				0	11	5	14	13	8	12	11	8
9	0				0	11	5	14	13	8	12	10	9
10	0				0	14	8	15	11	15	12	10	10
11	0				0	14	6	15	11	16	12	4	11
12	0				0	11	7	12	11	11	9	4	12
13	0	N	N	N	0	12	6	12	16	11	10	4	13
14	5	O	O	O	0	11	6	12	16	11	10	4	14
15	5				0	12	6	12	16	12	10	7	15
16	5	F	F	F	0	11	6	13	16	12	10	7	16
17	5	L	L	L	0	7	6	13	16	12	10	7	17
18	5	O	O	O	0	7	8	13	16	12	10	7	18
19	5	W	W	W	0	7	7	13	16	8	5	7	19
20	5.5				0	6	7	13	16	8	5	6	20
21	0				0	6	7	13	16	8	5	5	21
22	0				0	6	7	13	16	5	8	5	22
23	0				0	3	7	13	16	5	11	6	23
24	0				0	3	10	14	16	5	11	6	24
25	0				0	2.5	8	10	16	5	11	5	25
26	0				0	0	8	10	16	9	11	5	26
27	0				6	0	8	11	15	8	11	5	27
28	0				5	0	8	11	15	15	11	5	28
29	0					0	17	11	15	15	5	5	29
30	0					0	14	11	15	16	5	5	30
31	0					0		12.5		11	5		31
MEAN	1					7	7	13	15	10	9	7	MEAN
MAX.	5.5				6	14	17	15	18	16	12	11	MAX.
MIN.	0				0	0	4	10	11	0	5	4	MIN.
AC. FT.	70				22	412	413	792	879	589	579	395	AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
5.7	18	.49	6	5	1000	0					4151

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
1975	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	99	101				1
2					0		0	101	97				2
3					0		0	100	101				3
4					0		0	100	101				4
5					0		0	100	101				5
6					0		0	100	101				6
7					0		0	100	101				7
8					0		0	100	101				8
9					0		0	100	101				9
10					0		0	100	100				10
11					0		0	100	100				11
12					80		0	100	100				12
13	N	N	N	N	79	N	0	99	100	N	N	N	13
14	O	O	O	O	93	O	0	99	100	O	O	O	14
15					94		150	100	100				15
16	F	F	F	F	96	F	150	100	100	F	F	F	16
17	L	L	L	L	95	L	150	100	100	L	L	L	17
18	O	O	O	O	39.5	O	137	100	100	O	O	O	18
19	W	W	W	W	0	W	101	100	100.5	W	W	W	19
20					0		101	100	0				20
21					0		101	100	0				21
22					0		101	101	0				22
23					0		100	101	0				23
24					0		100	101	0				24
25					0		100	101	0				25
26					0		100	101	0				26
27					0		100	101	0				27
28					0		100	101	0				28
29							100	101	0				29
30							100	101	0				30
31								100.5					31
MEAN					19		60	100	64				MEAN
MAX.					96		150	101	101				MAX.
MIN					0		0	99	0				MIN.
AC. FT.					1143		3552	6164	3780				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
20.2	154	1.84	4	15	0800	0					14639

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
1975	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	0.0		0.0	97.0 b	87.0 b		0.0		1
2			0.0	0.0	0.0		0.0	97.0 b	83.0 b		0.0		2
3			0.0	0.0	0.0		0.0	93.0 b	87.0 b		0.0		3
4			0.0	0.0	0.0		0.0	93.0 b	80.0 b		0.0		4
5			0.0	0.0	0.0		0.0	90.0 b	80.0 b		1.2		5
6			0.0	0.0	0.0		0.0	87.0 b	78.0 b		122.6 *		6
7			0.0	0.0	0.0		0.0	83.0 b	78.0 b		174.0		7
8			0.0	0.0	0.0		0.0	83.0 b	80.0 b		152.0		8
9			0.0	0.0	0.0		0.0	83.0 b	80.0 b		144.0		9
10			7.2 E	0.0	0.0		0.0	83.0 b	87.0 b		152.0		10
11			49.0 E	0.0	0.0		0.0	87.0 b	83.0 b		148.0		11
12			54.0 #	0.0	63.2 b		0.0	87.0 b	90.0 b		144.0 *		12
13	N	N	49.0	0.0	100.0 a	N	0.0	90.0 b	93.0 b	N	148.0 *	N	13
14	O	O	0.0	8.7	87.0 a	O	0.0	93.0 b	90.0 b	O	152.0	O	14
15			0.0	52.0	60.0 a		65.1 b	93.0 b	83.0 b		132.0		15
16	F	F	0.0	54.0	67.0 a	F	157.0 b	100.0 b	80.0 b	F	123.0	F	16
17	L	L	0.0	54.0	70.0 a	L	165.0 b	103.0 b	80.0 b	L	111.0	L	17
18	O	O	0.0	54.0	40.0 b	O	165.0 b	100.0 b	80.0 b	O	107.0	O	18
19	W	W	0.0	54.0	0.0	W	132.0 b	90.0 b	80.0 b	W	21.7	W	19
20			0.0	54.0 *	0.0		111.0 b	83.0 b	30.5 b		0.0		20
21			0.0	58.0	0.0		107.0 b	90.0 b	0.0		0.0		21
22			0.0	58.0	0.0		100.0 b	83.0 b	0.0		0.0		22
23			0.0	30.0	0.0		100.0 b	83.0 b	0.0		0.0		23
24			0.0	0.0	0.0		97.0 b	87.0 b	0.0		0.0		24
25			0.0	0.0	0.0		93.0 b	87.0 b	0.0		0.0		25
26			0.0	0.0	0.0		97.0 b	90.0 b	0.0		0.0		26
27			0.0	0.0	0.0		100.0 b*	90.0 b	0.0		0.0		27
28			0.0	0.0	0.0		97.0 b	93.0 b	0.0		0.0		28
29			0.0	0.0			90.0 b	93.0 b	0.0		0.0		29
30			0.0	0.0			93.0 b	90.0 b	0.0		0.0		30
31			0.0	0.0				90.0 b*			0.0		31
MEAN			5.1	15.4	17.4		59.0	90.0	53.6		59.1		MEAN
MAX.			54.0	58.0	100.0		165.0	103.0	93.0		174.0		MAX.
MIN.			0.0	0.0	0.0		0.0	83.0	0.0		0.0		MIN.
AC. FT.			316	946	966		3509	5536	3192		3635		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	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
25.0	174.0	1.92	8	7	Mean Daily	0.0					18100

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 1959	1959	0.00 -3.48	LOCAL 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
1975	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	7.8					0.0	0.0	14.2	19.6	18.9	16.5	14.5	1
2	8.4					0.0	0.0	14.2	20.3	18.6	17.2	14.5	2
3	8.1					2.3	0.0	14.8	20.6	17.2	18.2	14.2	3
4	7.5					4.4 *	0.0	15.2	20.3	16.2	18.6	14.2	4
5	7.2					4.7	0.0	15.2	19.6	17.2	18.9	13.9	5
6	7.2					4.2	0.0	14.8	19.6	17.2	19.3	13.2	6
7	7.2					5.7	0.0	14.2	18.9	18.2	18.9	12.9	7
8	7.2					7.2	0.0	13.9	18.9	18.2	18.9	12.2 *	8
9	7.2					7.8	0.0	13.5	18.6	18.9	18.9	11.9	9
10	6.8					7.2	0.0	13.2	18.6	19.6	19.3	11.6	10
11	6.5					8.1	0.0	12.9	18.6	20.0	19.3	11.0	11
12	6.0					11.3	0.0	12.5 *	19.3	20.6	18.9	10.7	12
13	6.2	N	N	N	N	13.2	0.0	16.2	20.0	21.6	18.9	10.0	13
14	6.2	O	O	O	O	13.5 *	4.2 E	18.2	19.6	23.0	18.6	9.0	14
15	6.5					13.2	8.7 E	18.6	19.3	23.8	15.8	8.7	15
16	6.5	F	F	F	F	12.9	9.3	18.6	18.9 *	23.8	14.8	8.4	16
17	6.8	L	L	L	L	12.5	10.0	18.9	18.9	24.2	14.5	9.0	17
18	6.8	O	O	O	O	11.9	10.0	19.6	18.9	24.5	14.8	11.0	18
19	7.2	W	W	W	W	3.6	10.0	19.6 *	18.9	22.0	13.5	12.2	19
20	6.8					0.0	9.6	19.3 E	18.2	19.6	12.5	12.5	20
21	6.5					0.0	9.3	18.9 E	18.2	18.2 *	12.5	13.5	21
22	6.8					0.0	9.0	18.6	17.8	18.2	12.5	13.5 *	22
23	6.0					0.0	10.4 E	17.8	17.8	17 5	12.5	15.2	23
24	9.3					0.0	11.0 E	17.8	18.2	17.5	12.2	17.5	24
25	8.4					0.0	11.3 E	17.8	18.2	17.5	12.2 *	15.2	25
26	7.2					0.0	11.3	18.2	17.2	17.8	12.5	10.4	26
27	7.2					0.0	11.3	18.6	15.8	17.8	12.5	11.6	27
28	4.9					0.0	11.6	18.6	18.9	18.2 *	12.5	13.5	28
29	0.0					0.0	13.5	18.9	18.9	18.2	13.5	14.2 *	29
30	0.0					0.0	14.2	19.3 *	18.6 *	18.2	14.2	13.5	30
31	0.0					0.0		19.3		17.5	14.5		31
MEAN	6.3					4.6	5.8	16.6	18.8	19.4	15.7	12.5	MEAN
MAX.	9.3					13.5	14.2	19.6	20.6	24.5	19.3	17.5	MAX.
MIN.	0.0					0.0	0.0	12.5	15.8	16.2	12.2	8.4	MIN.
AC. FT.	390					285	346	1034	1121	1190	968	741	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
8.4	24.5	1.10	7	18	Mean Daily	0.0					6075

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 DHLY	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
1975	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.1				0.0		0.0	21.4	22.4	22.8	20.0	0.0	1
2	18.2				0.0		0.0	21.4	21.0 *	23.4	15.4	0.0	2
3	17.4				0.0		0.0	21.4	16.4	7.6	12.1	0.0	3
4	18.2				0.0		0.0	8.9	13.8	0.0	13.8 *	0.0	4
5	17.4				0.0		0.0	0.0	13.0	0.0	9.2	0.0	5
6	17.8				0.0		0.0	0.0	16.4	0.0	0.0	0.0	6
7	20.4				0.0		0.0	0.0	18.6	0.0	0.0	0.0	7
8	21.0				0.0		10.0	0.0	17.8	0.0	0.0	0.0	8
9	20.4				0.0		16.8	0.0	12.1	9.8	0.0	0.0	9
10	11.3				0.0		19.0	0.0	0.0	18.2	0.0	22.3	10
11	0.0				0.0		26.2	0.0	0.0	18.6	4.8	31.6 *	11
12	0.0				0.0		27.5	0.0	0.0	20.0	20.0	32.8	12
13	0.0	N	N	N	0.0	N	26.2	0.0	0.0	20.4	24.0 *	28.0	13
14	0.0	O	O	O	38.9 *	O	27.0	0.0	4.4	20.4 *	24.0	24.8	14
15	0.0				63.0		25.1	0.0	17.4	21.4	24.0	24.8	15
16	0.0	F	F	F	50.6	F	23.4	8.8	20.0	21.9	24.0	25.1	16
17	0.0	L	L	L	43.4	L	25.1	25.8	20.4	24.0	24.4	25.1	17
18	0.0	O	O	O	23.8	O	27.0	27.5	21.0	24.0	17.8 *	25.8	18
19	0.0	W	W	W	0.0	W	26.2	28.8 #	21.0 *	24.8	15.8	26.2	19
20	0.0				0.0		25.8	29.4	21.4	24.4	18.6	27.0	20
21	0.0				0.0		25.8	28.0	21.4 E	18.2 *	18.2	26.2	21
22	0.0				0.0		25.8	31.6	21.4 E	14.3	18.2	26.2	22
23	0.0				0.0		26.2	30.4	21.0 E	15.4	20.0	27.5	23
24	0.0				0.0		25.1	26.2	16.4	16.0	20.0	27.5	24
25	0.0				0.0		26.2	26.2	13.8	18.6	8.7	27.5	25
26	0.0				0.0		29.4	25.1	13.8	20.4	0.0	28.0	26
27	0.0				0.0		29.4	21.0	18.2	21.0	0.0	13.1	27
28	0.0				0.0		29.4	20.4	22.4	21.4	0.0	0.0	28
29	0.0						24.4	20.4	22.4	21.4	0.0	0.0	29
30	0.0						21.4	21.0	22.4	20.4	0.0	0.0	30
31	0.0							21.0		20.4	0.0		31
MEAN	5.7				7.8		18.9	15.0	15.7	16.4	11.4	15.6	MEAN
MAX.	21.0				63.0		29.4	31.6	22.4	24.8	24.4	32.8	MAX.
MIN.	0.0				0.0		0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	350				436		1127	922	933	1010	700	931	AC. FT.

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

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
8.9	63.0	2.67	2	15	Mean Daily	0.0					6409

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 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
1975	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.9				0.0		0.0	12.8 *	11.3	18.5	16.1	0.0	1
2	3.2 E				0.0		0.0	9.8	14.3	13.8	10.4	0.0	2
3	3.4				0.0		0.0	9.8	9.6	4.9	4.3	0.0	3
4	3.5				0.0		0.0	6.4	6.5 *	0.0	4.9 *	0.0	4
5	3.5				0.0		0.0	0.0	6.2	0.0	1.9	0.0	5
6	3.5				0.0		0.0	0.0	8.0	0.0	0.3	0.0	6
7	4.4				0.0		0.0	0.0	17.0	0.0	1.0	0.0	7
8	4.6				0.0		0.0	0.0	21.2	0.0	0.0	0.0	8
9	4.6				0.0		0.0	0.0	12.3	0.3	0.0	0.0	9
10	3.2				0.0		0.0	0.0	1.1	6.1	0.0	0.0	10
11	0.0				0.0		4.7	0.0	0.0	7.0	0.0	4.4	11
12	0.0				0.0		10.4	0.0	0.0	7.2	3.0	14.8	12
13	0.0				0.0		10.6	0.0	0.0	7.7	9.9	12.5	13
14	0.0	N	N	N	0.5	N	12.8	0.0	0.0	8.9 *	7.4	8.4	14
15	0.0	O	O	O	2.4	O	12.3	0.0	3.2	9.3	8.6 *	9.5 *	15
16	0.0				2.4		10.5 *	0.0	10.2 *	10.9	10.0	10.7	16
17	0.0	F	F	F	1.7	F	11.4	3.0	10.0	10.2	10.9	12.5	17
18	0.0	L	L	L	1.3	L	13.8	6.8	11.3	9.0	7.9	17.4	18
19	0.0	O	O	O	0.0	O	13.0	5.7	11.4	8.9	4.4	18.1	19
20	0.0	W	W	W	0.0	W	12.3	9.1	12.2	8.4	6.6	19.2	20
21	0.0				0.0		10.9	9.9 *	15.1	8.0 *	6.3	16.6	21
22	0.0				0.0		10.2	10.4	18.7	6.8	6.0	15.1	22
23	0.0				0.0		11.7	9.9	14.8	7.8	7.7	15.7	23
24	0.0				0.0		12.3	8.6	10.7	8.2	8.1	17.9	24
25	0.0				0.0		13.6	8.6	6.6	9.5	4.9	19.4	25
26	0.0				0.0		13.1	10.7	6.5	8.0	0.0	20.4	26
27	0.0				0.0		12.2	7.8	9.4	7.8	0.0	12.6	27
28	0.0				0.0		18.5	7.7	19.0	8.2 *	0.0	0.0	28
29	0.0						19.4	8.8	19.9	8.6	0.0	0.0	29
30	0.0						15.1	9.6 *	21.2	9.6	0.0	0.0	30
31	0.0							7.8		12.3	0.0		31
MEAN	1.1				0.3		8.3	5.3	10.3	7.3	4.5	8.2	MEAN
MAX.	4.6				2.4		19.4	12.8	21.2	18.5	16.1	20.4	MAX.
MIN	0.0				0.0		0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	69				16		494	324	611	448	279	486	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
3.8	21.2	2.91	6	8	Mean Daily	0.0					2727

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M O B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
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
1975	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.5 E							0.0	4.7	5.2	1.8	0.0	1
2	0.5 E							0.0	5.0	4.8 E	0.0	0.0	2
3	0.5 E							0.0	5.7	5.0	0.0	0.0	3
4	0.5 E							0.0	5.9	5.2	0.0	0.0	4
5	0.5 E							0.0	5.8	5.0	0.0	0.0	5
6	0.5 E							0.0	5.7	4.9	4.5	0.0	6
7	0.5 E							0.0	5.4	5.7	5.7	0.0	7
8	0.5 E							0.0	5.3	5.7	5.3	0.0	8
9	0.5 E							0.0	5.0	5.7	5.3	0.0	9
10	0.5 E							0.0	4.8	5.6	5.4	0.0	10
11	0.5 E							0.0	4.7	5.2	5.3 *	0.0	11
12	0.5 E							0.0	4.7	4.9	5.2	0.0	12
13	0.5 E	N	N	N	N	N	N	0.0	5.0	4.9	5.0	0.0	13
14	0.5 E	O	O	O	O	O	O	0.0	5.3	4.8	5.2	0.0	14
15	0.5 E							0.0	5.2	4.8	5.0	0.0	15
16	0.5 E	F	F	F	F	F	F	2.9	5.0	4.8	5.0	0.0	16
17	0.0	L	L	L	L	L	L	4.5	5.3	5.0	4.9	0.0	17
18	0.0	O	O	O	O	O	O	4.1	5.4	5.2	4.8 *	0.0	18
19	0.0	W	W	W	W	W	W	3.6 *	5.6 *	5.3	2.6	0.0	19
20	0.0							3.4	5.6	5.4	0.0	0.0	20
21	0.0							3.3	5.6	5.4 *	0.0	0.0	21
22	0.0							3.6	5.6	5.7	0.0	0.0	22
23	0.0							3.9	5.6	6.1 E	0.0	0.0	23
24	0.0							3.9	5.7	6.4 E	0.0	0.0	24
25	0.0							4.0	5.7	6.7 E	0.0	0.0	25
26	0.0							4.2	5.6	7.3	2.4	0.0	26
27	0.0							4.8	5.6	7.8	7.5 *	3.1	27
28	0.0							4.7	5.4	8.4	3.0	4.4	28
29	0.0							4.6	5.3	9.0	0.0	4.2 *	29
30	0.0							4.6	5.2 *	9.7	0.0	4.2	30
31	0.0							4.6		10.5	0.0		31
MEAN	0.3							2.1	5.3	6.0	2.7	0.5	MEAN
MAX.	0.5							4.8	5.9	10.5	7.5	4.4	MAX.
MIN.	0.0							0.0	4.7	4.8	0.0	0.0	MIN.
AC. FT.	16							128	318	369	166	32	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
1.4	10.5	1.95	7	31	Mean Daily	0.0					1029

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.)

ILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03960	POPLAR DITCH NEAR PORTERVILLE

AY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.0 E	0.0	50.0	0.0	0.0	127.4	0.0	33.0	40.0	49.0 *	123.2	128.6	1
2	37.4	0.0	52.0	0.0	0.0	128.0	0.0	33.0	35.8	45.6	121.4	132.2	2
3	27.7	0.0	52.0	0.0	15.3	127.4	0.0	31.4	27.4	81.8	119.6	136.0	3
4	55.	0.0	51.0	0.0	15.8	55.2 *	0.0	29.0	26.2	106.4	120.8	135.4	4
5	67.4	0.0	51.0	0.0	0.0	18.6	0.0	28.3	26.2	107.0	125.6	134.8	5
6	62.2	0.0	50.5	0.0	0.0	19.4	0.0	27.4	26.2	107.0	129.2 *	132.2	6
7	61.3	0.0	50.0	0.0	0.0	20.7	8.3	28.3	26.2	110.4	130.4	132.8	7
8	61.3	0.0	50.0	0.0	0.0	24.1	14.2	27.0	30.6	114.1	120.2	133.4	8
9	58.0	0.0	46.6 *	19.2	0.0	26.2	10.8	27.4	33.0	109.0	112.6	132.8	9
0	19.5	0.0	47.0	31.0	0.0	22.9	11.6	29.8	33.9	97.6	115.6	131.0	10
11	0.0	0.0	46.1	32.6	45.8 *	17.4	10.0	33.0	34.4	100.8	117.0	135.4	11
12	0.0	0.0	46.1	35.2	77.8	18.6	6.2	31.0	35.2	100.8	122.0	136.6	12
13	0.0	0.0	43.4	37.8	77.2	21.0	2.7	29.0	37.8	103.3	126.8	136.0	13
14	0.0	0.0	8.6	39.1	84.6	17.4	7.0	30.2	39.1	104.6	126.8	129.2	14
15	0.0	0.0	0.0	40.6	90.2	16.9	13.7	30.6	38.2	104.0	132.8	131.6 *	15
16	0.0	0.0	0.0	41.0	96.9	18.1	17.4 *	29.4	37.0	104.6	132.8	131.6	16
17	0.0	0.0	0.0	40.0	101.4	17.2 *	28.6	31.0	38.2	113.2	131.6	125.0	17
18	0.0	0.0	0.0	40.0	104.6	16.4	43.9	32.6	39.6	119.6	132.2 *	129.8	18
19	0.0	0.0	0.0	40.0 *	108.3	5.2	44.2	32.1 *	40.0	123.2	128.0	134.2	19
20	0.0	0.0	0.0	39.6	106.4	0.0	42.9	32.1	40.6	120.2	123.8	130.4	20
21	0.0	0.0	0.0	40.6	105.2	0.0	41.9	29.0	41.4	116.2 *	93.8 *	130.4	21
22	0.0	0.0	0.0	39.6	105.8	0.0	40.6	25.8	43.4	119.0	89.0	135.4	22
23	0.0	0.0	0.0	34.8	107.0	0.0	40.0	24.1	41.9 *	125.0	97.6	136.0	23
24	0.0	0.0	0.0	8.2	108.3	0.0	36.1	22.9	41.9	125.6	101.4	137.8	24
25	0.0	20.4	0.0	0.0	119.6	0.0	30.6	25.5	44.2	123.8	102.0	138.4	25
26	0.0	46.6 *	0.0	0.0	126.2 *	0.0	28.6	31.8	45.1	119.6	123.2 *	136.6	26
27	0.0	54.0	0.0	0.0	126.8	0.0	28.3	42.4	47.0	120.2	134.8	134.2	27
28	0.0	52.0	0.0	10.1	126.8	0.0	29.0	42.4	47.0	121.4	137.2	134.2	28
29	0.0	47.0	0.0	6.2		0.0	31.4 *	41.0	44.2	122.0	136.0	133.4	29
30	0.0	47.6	0.0	5.4		0.0	32.1	40.0 *	47.6	122.6	134.8	133.4	30
31	0.0		0.0	2.1		0.0		40.0		122.0	135.4		31
EAN	14.6	8.9	20.8	18.8	66.1	23.2	20.0	31.3	37.6	108.4	121.9	133.3	MEAN
AX	67.4	54.0	52.0	41.0	126.8	128.0	44.2	42.4	47.6	125.6	137.2	138.4	MAX.
IN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9	26.2	45.6	89.0	125.0	MIN.
C. FT.	897	531	1278	1156	3669	1424	1190	1925	2240	6664	7493	7932	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
50.3	138.4	3.45	9	25	Mean Daily	0.0					36399

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
1975	C03925	HUBBS-MINER DITCH NT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0					0.0	0.0	4.4 E	1.8 E	16.9	7.6	1.0 a	1
2	0.0					0.0	0.0	4.9 #	2.9 E	16.9	6.2	1.0 a	2
3	0.0					0.0	0.0	5.6	6.0	16.9	6.5	1.0 a	3
4	0.0					0.3	0.0	6.2	7.4	14.8	10.2 *	1.0 a	4
5	0.0					3.2	0.0	6.0	7.0	15.6	16.7	1.0 a	5
6	0.0					4.1	0.0	5.7	5.6	15.8	12.3	1.0 a	6
7	0.0					3.9 *	0.0	5.4 E	6.0	8.8	11.3	2.3	7
8	0.0					4.2	0.0	5.5	3.2	17.2	10.4	3.6	8
9	0.0					4.5	3.2	5.2	4.8	9.9 *	10.2	3.4	9
10	0.0					4.5	5.0	5.1	6.6	8.3	10.1	3.6	10
11	0.4					4.2	5.5	4.4	6.5	7.1	8.9 *	5.4 *	11
12	2.3					4.7	5.3	3.8	6.0	6.8	10.2	4.1 E	12
13	6.2	N	N	N	N	4.6	5.2 E	5.3	9.3	7.4	8.4	2.5 a	13
14	6.5	O	O	O	O	5.1	4.7 E	5.4	11.3	7.5	4.2	2.5 a	14
15	5.9					5.2	3.8 E	5.5	11.3	7.8	4.7 *	1.2 a	15
16	4.9	F	F	F	F	4.8	3.6 E	4.8	10.6 *	9.6	6.3	3.0	16
17	0.0	L	L	L	L	2.2	2.1 E	0.0	11.9	7.1	7.0	2.8	17
18	0.0	O	O	O	O	0.0	0.0	1.4	11.9	7.1	7.5	2.3	18
19	0.0	W	W	W	W	0.0	0.0	3.1	12.1	8.3	14.5	2.3	19
20	0.0					0.0	0.0	3.4	12.5	8.9	14.0	2.3	20
21	0.0					0.0	0.0	3.7 *	11.0	11.3 *	10.1	2.3	21
22	0.0					0.0	0.0	1.5	12.3	14.0	6.8	1.2	22
23	0.0					0.0	0.0	0.0	12.3	14.3	5.1	0.0	23
24	0.0					0.0	0.0	0.0	13.3	14.8	5.0	0.0	24
25	0.0					0.0	0.0	0.0	14.5	15.8	5.0 *	0.0	25
26	0.0					0.0	2.6	0.0	16.4	17.2	5.5 E	0.0	26
27	0.0					0.0	3.8	0.0	16.1	17.5	5.6 E	0.0	27
28	0.0					0.0	3.4	0.0	16.4	17.5	5.9	0.0	28
29	0.0					0.0	3.6	0.0	18.2	17.5	5.5 *	0.0	29
30	0.0					0.0	4.4 E	0.0	15.6	14.0 E	2.0	0.0	30
31	0.0					0.0		0.0		9.7	1.0 a		31
MEAN	0.8					1.8	1.9	3.1	10.0	12.1	7.9	1.7	MEAN
MAX	6.5					5.2	5.5	6.2	18.2	17.5	16.7	5.4	MAX
MIN.	0.0					0.0	0.0	0.0	1.8	6.8	1.0	0.0	MIN.
AC. FT.	52					110	111	191	597	744	485	101	AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
3.3	18.2	2.40	6	29	Mean Daily	0.0					2391

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
1975	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	93.0	0.0	88.5	0.0	0.0					0.0	223.0	175.0	1
2	86.6	0.0	88.0 *	0.0	0.0					0.0	213.0	179.0	2
3	73.8	0.0	94.0	0.0	0.0					0.0	224.0	165.0	3
4	55.0	0.0	107.4 E	0.0	0.0					0.0	216.0	164.0	4
5	0.0	0.0	96.9 E	0.0	0.0					0.0	200.0	179.0	5
6	0.0	0.0	97.4 E	0.0	0.0					0.0	209.0 *	189.0	6
7	0.0	0.0	97.9	0.0	0.0					35.6	205.0	170.0	7
8	0.0	0.0	97.4	0.0	0.0					171.0 *	202.0	166.0	8
9	0.0	0.0	77.6	0.0	0.0					190.0	197.0	165.0	9
10	0.0	0.0	33.0	0.0	0.0					189.0	191.0	158.0	10
11	0.0	0.0	46.5	0.0	13.1					173.0	200.0	159.0 *	11
12	0.0	0.0	48.2	5.5	142.1 *					157.0	207.0	172.0 *	12
13	0.0	0.0	45.8	16.4	163.5 a	N	N	N	N	162.0	209.0	174.0	13
14	0.0	0.0	7.6	15.1	146.0 a	O	O	O	O	171.0	192.0	176.0 E	14
15	0.0	0.0	0.0	16.2	124.9 a					170.0	176.0 *	175.0 E	15
16	0.0	0.0	0.0	19.3	126.3 a	F	F	F	F	170.0	164.0	157.0 *	16
17	0.0	0.0	0.0	21.5	127.2 a	L	L	L	L	170.0	160.0	150.0 *	17
18	0.0	0.0	0.0	23.0	120.0	O	O	O	O	164.0	154.0	155.0	18
19	0.0	0.0	0.0	22.5	23.5 E	W	W	W	W	168.0	178.0	157.0	19
20	0.0	0.0	0.0	22.0 *	23.5 E					174.0	185.0	157.0	20
21	0.0	0.0	0.0	19.0	0.0					180.0 *	192.0	148.0	21
22	0.0	0.0	0.0	19.0	0.0					189.0	189.0	134.0 *	22
23	0.0	0.0	0.0	16.2	0.0					199.0	185.0	143.0	23
24	0.0	0.0	0.0	0.0	0.0					201.0	179.0	159.0	24
25	0.0	0.0	0.0	0.0	0.0					201.0 *	178.0 *	166.0	25
26	0.0	7.5	0.0	0.0	0.0					212.0	184.0	175.0	26
27	0.0	71.0	0.0	0.0	0.0					217.0	190.0	173.0	27
28	0.0	80.0	0.0	0.0	0.0					209.0	202.0	179.0	28
29	0.0	91.0	0.0	0.0						203.0	203.0 *	178.0	29
30	0.0	93.5	0.0	0.0						208.0	192.0	166.0	30
31	0.0		0.0	0.0						217.0	168.0		31
MEAN	9.9	11.4	33.1	7.0	36.1					145.2	192.5	165.4	MEAN
MAX.	93.0	93.5	107.4	23.0	163.5					217.0	224.0	189.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0					0.0	154.0	134.0	MIN.
AC. FT.	612	680	2035	428	2004					8927	11835	9844	AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
50.2	224.0	7.65	8	3	Mean Daily	0.0					36365

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

Station located 4.5 miles west of Porterville, approximately 100 feet 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.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1258	624	341	326	498	976	660	1089	1204	1688	1711	844	1
2	1304	622	284	307	553	928	719	989	1277	1658	1655	841	2
3	1194	620	260	273	718	933	771	1008	1334	1559	1772	788	3
4	967	619	338	270	668	970	678	1019	1296	1537	1851	739	4
5	1002	609	458	270	584	1020	683	1015	1299	1593	1819	675	5
6	1120	583	560	285	555	1024	649	917	1310	1634	1776	661	6
7	1051	509	569	279	535	1048	640	889	1339	1624	1673	626	7
8	1028	496	571	295	530	877	610	875	1474	1689	1583	600	8
9	1080	480	550	298	549	864	563	586	1744	1731	1522	574	9
10	1003	479	456	323	573	837	588	775	1833	1698	1563	598	10
11	932	455	403	331	521	705	605	808	1846	1772	1520	630	11
12	916	472	296	348	488	611	560	847	1863	1850	1581	601	12
12	901	515	296	388	499	706	536	959	1814	1892	1652	572	13
14	905	603	305	380	508	714	538	1024	1760	1888	1585	580	14
15	906	643	355	371	497	615	536	1036	1747	1910	1517	560	15
16	900	73	354	371	491	598	551	1053	1781	1903	1665	541	16
17	917	753	348	344	488	582	584	999	1759	1779	1700	542	17
18	945	742	352	375	499	560	546	919	1718	1767	1726	516	18
19	941	697	352	357	549	586	543	903	1735	1785	1589	510	19
20	923	708	393	349	641	596	544	873	1714	1778	1451	511	20
21	887	736	374	351	658	600	521	845	1696	1760	1405	538	21
22	646	697	378	345	680	613	521	835	1701	1770	1283	562	22
22	640	686	373	371	730	604	529	836	1692	1787	1217	539	23
24	640	672	362	367	797	595	614	807	1616	1842	1220	494	24
25	631	696	312	366	835	641	628	803	1558	1868	1189	470	25
26	628	705	311	372	902	718	713	868	1561	1896	1190	454	26
27	623	708	325	375	992	657	774	945	1590	1922	1187	408	27
28	645	700	360	371	1029	644	852	1040	1557	1873	1091	399	28
29	635	668	357	367		637	997	1069	1575	1830	887	416	29
30	622	469	343	405		622	1129	1065	1602	1817	831	423	30
31	619		329	469		627		1113		1820	832		31
MEAN	884	623	376	345	627	733	646	929	1600	1772	1459	574	MEAN
MAX.	1317	826	573	496	1130	1104	1138	1145	1883	1948	1860	883	MAX.
MIN.	595	372	232	251	485	514	482	381	1184	1503	816	392	MIN.
AC. FT.	54365	37085	23137	21221	34844	45041	38444	57142	95197	108932	89738	34139	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
883	1948		7			232					639285

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 9290[a]	461.37 454.94	11-19-50 12-6-66	1893-DATE				0.0 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
1975	C05180	KERN RIVER AT SECOND POINT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0	34	209	8	413	255	573	577		1
2				0.0	39	163	6	359	301	591	530		2
3				0.0	108	125	19	364	353	558	520		3
4				0.0	228	139	19	367	371	574	526		4
5				0.0	211	165	19	359	396	573	555		5
6				0.0	200	178	17	296	492	573	572		6
7				0.0	187	175	16	171	494	564	571		7
8				0.0	181	139	15	158	480	564	544		8
9				0.0	184	74	10	133	511	607	586		9
10				0.0	211	77	8	93	527	609	420		10
11				0.0	221	66	17	188	566	609	409		11
12				0.0	184	25	17	167	686	636	394		12
13	N	N	N	0.0	203	34	14	178	741	657	378	N	13
14	O	O	O	0.0	213	42	1	196	737	691	434	O	14
15	O			0.0	210	25	16	198	652	692	446		15
16	F	F	F	0.0	199	18	23	226	650	695	401	F	16
17	L	L	L	0.0	195	9	27	215	631	668	375	L	17
18	O	O	O	0.0	188	11	39	184	617	645	350	O	18
19	W	W	W	0.0	185	2	47	154	605	716	365	W	19
20				0.0	197	5	54	182	601	759	356		20
21				0.0	195	5	48	196	609	702	287		21
22				0.0	189	4	35	200	632	646	255		22
23				0.0	186	8	38	196	628	592	233		23
24				0.0	206	10	64	198	617	570	175		24
25				0.0	210	6	91	215	596	594	130		25
26				0.0	212	6	131	192	552	585	105		26
27				0.0	210	5	202	187	514	614	93		27
28				0.0	204	5	230	199	526	624	97		28
29				0.0		4	270	222	524	603	96		29
30				0.0		6	352	208	548	599	50		30
31				23.0		12		215		594	0		31
MEAN				1	185	56.5	61.8	220	547	622	346		MEAN
MAX.				23	228	209	352	413	741	759	577		MAX.
MIN.				0.0	34	2	1	93	255	558	0.0		MIN.
AC. FT.				46	10294	3475	3675	13545	32553	38235	21283		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
170	759		7	20		0		10	1		123106

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	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
1975	C07115	AVENAL CREEK AT HIGHWAY 33

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						NO FLOW							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 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 43 50	119 59 35	36-24S-18E						1974			Local

Station located on upstream side of bridge over Avenal Creek, 7.6 miles south of Highways 41 and 33 intersection. There are no upstream reservoirs. Drainage area is 149 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	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 DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET

LOCATION			MAXIMUM DISCHARGE			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 1974 through September 1975

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.														
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVINSON	136.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS	186.[illegible]														
San Luis Canal Company	186.6 L	[illegible]	9495	6333*	[illegible]	[illegible]26	3929	12[illegible]8	13291	21128	26781*	290[illegible]3	27676	18581	169711
--FIREBAUGH BRIDGE	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA															
--MENDOTA DAM	208.63														
Central California Irrigation District	208.[illegible] L	[illegible]ity	22209	6656*	[illegible]	7185	15369	32767	5486[illegible]	69773	7[illegible]94*	83[illegible]0*	80742*	41[illegible]0	a 491234*
--FRESNO SLOUGH	209.0 L														
--DELTA-MENDOTA CANAL b	(0.2L)														
Firebaugh Canal Company b	(0.4L)		1267	204	[illegible]	4491	3182	2[illegible]5	6682	8462	6682	7252	6822	2[illegible]	a 49862
M. Jensen															
Dudley, et al, (Marchini Bros) b	(3.4L)		0	[illegible]	[illegible]	173	343	385	137	38	290	268	218	26	1798
State of California Mendota Waterfowl Management b	(6.45-8.20)		4780	1668	[illegible]	1065	561	454	484	1230	2834	223[illegible]	2795	4445	22549
Fresno Slough Water District b	(9.20-10.50)		58	0	0	262	637	757	468	314	448	657	655	190	3769
--JAMES BYPASS b	(11.80R)														
Mason A. Loundy (Traction Ranch) c	(1.75)		81	2	0	54	339	448	45[illegible]	393	[illegible]31	772	1012	[illegible]	4769
Reclamation District 1606 c	(1.50)		[illegible]	0	0	48	73	0	81	0	221	161	212	[illegible]	802
James Irrigation District c	(4.4)		0	0	0	2807	[illegible]968	[illegible]04	5032	5756	8331	8739	7823	1882	47042
Tranquillity Irrigation District b	(12.00-13.75)		60	0	0	2541	4760	528	1216	2632	5760	7446	6393	25[illegible]	33919
Melvin D. Hughes b	(12.20)		[illegible]	0		0	0	12	[illegible]	12	14	16	[illegible]	12	6[illegible]
--LONE WILLOW SLOUGH	219.8 R														
Columbia Canal Company	219.8 R		[illegible]	[illegible]62	[illegible]	17[illegible]4	3979	3528	4778	8224	8995	9636	9299	6[illegible]04	61740
State Center Land Company	[illegible]		[illegible]	0	[illegible]	0	0	0	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]
M. Beck	e [illegible]		31	24	0	0	0	0	[illegible]	0	18	0	[illegible]	[illegible]	73
Tulle Gun Club	f [illegible]		1[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	[illegible]	0	10	1[illegible]	[illegible]	30
Westlands Water District			16[illegible]	0	0	0	2245	2862	2309	2527	4[illegible]36	4465	3142	[illegible]	2175[illegible]
Grasslands			24028	2846	0	0	0	0	0	0	0	0	0	12454	39328
T. W. Wilson			[illegible]	0	0	56	85	0	56	[illegible]	103	74	161	3[illegible]	56[illegible]
Laguna Water District			[illegible]	0	0	0	0	0	0	[illegible]	200	200	15[illegible]	8[illegible]	680
Tranquillity Gun Club			[illegible]	0	0	0	0	0	0	0	0	80	[illegible]	[illegible]	80
Cole Gun Club			6[illegible]	0	0	0	0	0	[illegible]	0	0	0	5	6[illegible]	120
Patos Unlimited			10[illegible]	0	0	0	0	0	[illegible]	0	0	106	0	[illegible]	212
120 Duck Club			6[illegible]	0	0	0	0	0	0	0	0	[illegible]	[illegible]	6[illegible]	120
Pacheco Water District			20[illegible]	0	0	0	0	0	0	0	0	0	0	[illegible]	200
Mercy Springs Water District			[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	0	70[illegible]	[illegible]	[illegible]	[illegible]	2100
--SAN JOAQUIN RIVER AT CHOWCHILLA BYPASS	219.83														
--GRAVELLY FORD CANAL	232.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			66940	18415	0	18390	35502	[illegible]820	84820	114808	135221	146164	139987	894[illegible]	905550
Average cubic feet per second			1089	309	0	299	639	908	142[illegible]	186[illegible]	2272	2377	2277	[illegible]04	1251
Monthly use in percent of seasonal			7.4	2.0	0	2.0	3.9	6.2	9.4	12.[illegible]	14.9	16.1	15.[illegible]	9.4	100.0

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.

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

[illegible] AND [illegible] - [illegible]
[illegible] 1974 through September 1975

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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Average cubic feet per second	[illegible]	[illegible]	41	[illegible]	1414	12.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Monthly use in percent of seasonal	[illegible]	1.0	.2	.2	[illegible]	[illegible]	11.[illegible]	17.0	16.1	16.5	12.[illegible]	[illegible]	[illegible]		
Madera Canal															
Total acre-feet diverted	[illegible]	[illegible]	1.1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5164	[illegible]	[illegible]		
Average cubic feet per second	[illegible]	[illegible]	[illegible]		14.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Monthly use in percent of seasonal	[illegible]	[illegible]	.1	[illegible]	2.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Merced Irrigation District						Merced River									
Main Canal	[illegible]	3646	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Northside Canal	[illegible]	52	131	[illegible]	[illegible]	[illegible]	121	[illegible]	41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total acre-feet diverted	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Average cubic feet per second	[illegible]	[illegible]	63	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Monthly use in percent of seasonal	[illegible]	[illegible]	[illegible]	0.3	.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Turlock Irrigation District						Tuolumne River									
Total acre-feet diverted	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Average cubic feet per second	401	[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	14[illegible]	[illegible]	[illegible]	1432	[illegible]	[illegible]		
Monthly use in percent of seasonal	3.6	8.0	[illegible]	[illegible]	0.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.[illegible]	[illegible]			
Modesto Irrigation District															
Total acre-feet diverted	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		523
Average cubic feet per second	[illegible]	2.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	442	[illegible]	441	[illegible]	[illegible]		
Monthly use in percent of seasonal	4.[illegible]	4.4	[illegible]	[illegible]	1.4	[illegible]	[illegible]	4.6	14.3	[illegible]	14.[illegible]	[illegible]			
Waterford Irrigation District															
Total acre-feet diverted	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Average cubic feet per second	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	[illegible]	114	1.4	[illegible]	1	[illegible]	[illegible]		
Monthly use in percent of seasonal	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.[illegible]	11.[illegible]	[illegible]	1.[illegible]	1[illegible].3	1[illegible]	1[illegible].4			
Oakdale Irrigation District						Stanislaus River									
Northside Canal	13[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	121	11[illegible]	[illegible]	[illegible]	[illegible]	21013	1[illegible]441	[illegible]		4190
Southside Canal	19253	[illegible]	[illegible]	[illegible]	[illegible]	1310	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		36
Total acre-feet diverted	32844	[illegible]	[illegible]	[illegible]	[illegible]	2220	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44274	324032	[illegible]	
Average cubic feet per second	534	0	[illegible]	[illegible]	0	36	[illegible]	[illegible]	[illegible]	[illegible]	824	744	448		
Monthly use in percent of seasonal	10.1	0	[illegible]	[illegible]	0	0.7	[illegible]	[illegible]	[illegible]	17.4	15.6	13.[illegible]			
South San Joaquin Irrigation District															
Total acre-feet diverted	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	49843	28620	[illegible]	[illegible]	312
Average cubic feet per second	93	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	847	[illegible]	811	481	425		
Monthly use in percent of seasonal	1.[illegible]	0	[illegible]	[illegible]	1.[illegible]	[illegible]	12.[illegible]	1[illegible]	16.4	[illegible].1	16.[illegible]	9.[illegible]			

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 61,188 acre-feet of water was pumped from wells.
c Of this acreage, 3,311 were double cropped. Does not include an undetermined amount of riparian water users acreage.
d An additional 120,000 acre-feet of water was pumped from wells.
e Of this acreage, 41,605 were double cropped.
f An additional 37,60[illegible] acre-feet of water was pumped from wells.
g Of this acreage, 10,491 were double cropped.
h An additional 628 acre-feet of water was pumped from wells.
i Of this acreage, 405 were double cropped.
j Of this acreage, 934 were double cropped.
k Of this acreage, 494 were double cropped.
m This acreage also received [illegible] 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, [illegible] were double cropped.

TABLE B-6

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1974 through September 1975

WATER USER	MILE POST FROM CANAL HEAD FROM	TO	MONTHLY DELIVERIES IN ACRE-FEET OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL
							Delta-Mendota Canal								
Plain View Water District	4.22	20.96	493	1	0	0	1	432	2022	4047	3564	3587	3450	2023	19617
The Westside Irrigation District	14.79		25	0	0	0	0	0	283	3004	1842	3025	3075	451	11705
Hospital Water District	18.05	30.96	987	19	0	276	559	900	3048	5298	6516	5988	5054	2980	31625
Banta-Carbona Irrigation District	20.42		243	0	0	144	331	298	0	4353	1353	1308	3294	805	12129
Kern Canon Water District	31.31	35.18	233	66	0	52	167	149	877	1230	1723	1451	1296	615	7859
West Stanislaus Irrigation District	31.31	38.14	0	0	0	6	0	613	2502	8016	8707	8779	7333	193	36149
Del Puerto Water District	35.73	42.51	413	9	0	90	128	336	1615	2717	3815	2759	2420	1324	15626
Salado Water District	42.10	46.85	0	0	0	0	46	358	1425	2701	2100	2091	1347	369	10437
Patterson Water District	42.51		38	0	0	49	59	400	707	1741	1639	739	1134	216	6722
Sunflower Water District	44.22	52.02	86	0	0	68	101	914	2084	2771	3323	2494	2114	865	14820
Orestimba Water District	46.83	51.41	77	0	0	343	90	441	2938	3908	2879	4494	2979	1012	19161
Foothill Water District	51.65	57.46	532	0	0	0	210	501	1133	1971	2193	2025	1972	1353	11890
Davis Water District	53.64	56.82	143	0	0	159	72	74	674	881	911	1091	673	431	5109
Mustang Water District	56.80	62.67	153	42	0	107	38	263	1256	2614	2658	3261	2898	1155	14445
Central California Irrigation District	58.26	76.06	130	36	0	176	308	734	4111	10622	12334	12973	11125	2549	55098
Quinto Water District	64.32	67.55	50	18	0	0	0	110	732	1251	1293	1212	1330	498	6494
Centinella Water District	66.20		248	2	0	0	0	34	197	453	661	612	539	379	3125
Romero Water District	66.70	68.03	71	0	0	0	0	45	647	651	307	713	937	606	3977
San Luis Water District, Municipal and Industrial	69.21		12	1	0	1	1	0	9	19	18	20	20	16	117
San Luis Water District	69.21	90.53	2850	579	0	3328	7384	4761	10262	11752	13086	12855	11497	5333	83687
William Affonso	80.03		0	0	0	0	0	0	82	0	48	55	65	[illegible]	250
Grassland Water District	70.00		11618	1977	0	0	0	0	0	0	0	0	0	5076	18671
Pacheco Water District	90.52		0	0	0	0	0	0	0	0	1336	1968	1158	280	4742
Sam Hamburg Farms	90.53		0	2	0	1	2	2	2	4	4	4	5	4	30
Panoche Water District	93.25	96.[illegible]	4185	2127	0	3192	3572	8124	7678	7939	11153	11303	8054	2106	69433
Eagle Field Water District	93.27	94.[illegible]	107	0	0	97	481	328	147	1010	562	766	927	485	4913
Oro Loma Water District	95.50	96.62	75	0	0	0	0	0	652	1182	1250	1240	1213	125	5737
West Side Golf Club	95.95		15	9	6	4	5	8	12	20	25	24	28	22	179
Mercy Springs Water District	97.70	99.81	47	0	0	0	0	0	800	2215	2274	2323	2199	244	10102
Panoche Water District, Municipal and Industrial	100.84		1	1	0	1	1	1	1	1	1	1	1	1	11
Widren Water District	102.03		0	0	0	0	0	0	203	331	176	168	186	15	1079
Broadview Water District	102.95		264	1222	0	1989	632	3228	1252	1110	3040	2586	1228	300	16851
Firebaugh Canal Company	109.45		0	0	0	301	196	0	1238	5877	6796	7472	7148	262	29290
State Fish and Game Salmon Run			0	0	0	0	0	0	0	0	0	0	0	3	3
San Luis Drain	111.03		162	48	0	71	12	12	176	92	121	123	92	84	993
Total			23258	6159	6	10455	14396	23066	48765	89781	97708	99510	86791	32174	532069
Net Deliveries DMC to Mendota Pool			77728	16778	0	33924	46653	61002	98614	133446	158444	170055	161379	102037	1060060
Net Deliveries DMC to O'Neill Forebay			115470	-14248	0	109578	176715	150437	106634	21507	-9945	24619	42949	88821	812537
							Madera Canal								
Buchanan Dam			0	0	34	0	0	0	0	0	0	0	0	0	34
Hidden Dam			0	0	81	0	0	0	0	0	0	0	0	0	81
Madera Irrigation District	6.10	32.2	0	0	0	0	6900	12546	18078	33628	43605	46880	27233	18	188888
Adobe Ranch	20.6		85	60	56	0	0	0	0	0	0	89	71	80	441
Chowchilla Water District	35.9		1002	0	0	0	1400	3316	6815	23618	28633	28251	24336	12456	129866
Total			1087	60	171	0	8300	15862	24893	57246	72238	75220	51640	12554	[a] 319311
							Millerton Lake								
Fresno County Water Works #18			8	4	2	2	4	5	7	14	19	20	18	13	114
County of Madera			3	4	1	2	1	2	3	3	3	3	2	2	24
Total			11	8	3	4	5	7	10	17	22	23	20	15	145

TABLE B-6 (Cont.)

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1974 through September 1975

WATER USER	MILE POST FROM CANAL HEAD FROM	TO	OCT	NOV	DEC.	JAN	FEB	MAR.	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL
			MONTHLY DELIVERIES IN ACRE-FEET												
							Friant-Kern Canal								
Garfield Water District	7.53		176	21	0	0	172	117	391	532	56	640	513	274	3403
International Water District	14.9		130	0	0	0	0	27	37	148	192	285	247	229	1295
Round Mountain Ranch	20.22		5	0	0	0	0	0	0	0	7	9	4	9	34
Consolidated Irrigation District	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	0	0	0	0	0	0	0	0	0	0
Corcoran Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
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	[illegible]	[illegible]	0	0	0	0	0
City of Fresno	25.51		0	0	0	0	0	0	0	0	0	11000	12000	0	23000
Fresno Irrigation District	25.51 & 28.50		11	0	0	3138	7025	0	10724	17082	6028	11357	7562	15272	78199
Murphy Slough Association	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 County Water District	28.50 & 71.29		0	0	0	0	0	0	0	4000	0	0	0	0	4000
Hills Valley Irrigation District	41.12		0	0	0	0	0	0	[illegible]	27	0	[illegible]	0	0	27
Orange Cove Irrigation District	35.87	53.31	2573	11	0	0	0	0	548	5[illegible]02	6329	7390	[illegible]	5927	3526[illegible]
City of Orange Cove	43.44		58	10	0	0	0	29	43	66	49	82	75	62	474
Stone Corral Irrigation District	[illegible].90	64.40	429	0	0	0	0	83	725	1363	1512	1735	1769	1270	8886
Ivanhoe Irrigation District	65.04	68.13	1250	6	0	0	145	0	249	1391	1679	2989	2575	1[illegible]14	12[illegible]
Tulare Irrigation District	68.14	71.29	701	0	0	0	24341	0	31886	55438	2621[illegible]	24[illegible]14	10398	13011	186[illegible]06
Lakeside Irrigation District	69.42		0	0	0	0	0	0	0	0	0	0	0	0	0
Kaweah Delta Water Conservation District	69.08	71.29	0	0	0	0	0	0	0	0	0	0	0	0	0
Exeter Irrigation District	72.52	79.24	628	8	0	0	44	144	839	3637	4364	3879	2759	1874	18[illegible]6
Lewis Creek Water District	81.54		64[illegible]	0	0	0	0	0	5	218	262	232	247	213	1291
Lindsay-Strathmore Irrigation District	85.56		2459	173	0	0	0	0	0	0	0	1970	4613	4134	13349
Lindmore Irrigation District	86.17	91.12	2717	30	0	0	463	1507	2511	722[illegible]	9098	9831	9666	7113	50163
Porterville Irrigation District	93.93	98.62	0	0	0	0	0	2174	2259	3082	3685	3976	554[illegible]	2934	23650
Lower Tule Irrigation District	95.67	98.62	12460	8603	0	0	15965	11[illegible]62	3013[illegible]	3[illegible]307	42619	3013[illegible]	22966	10837	222986
Tea Pot Dome	99.35		455	19	0	0	12	23	191	676	84[illegible]	883	925	794	482[illegible]
Saucelito Irrigation District	98.62	107.31	809	82	0	0	2127	4158	4991	61[illegible]	64[illegible]3	7693	6661	3199	42230
Terra Bella Irrigation District	102.65		1619	0	0	0	0	165	431	3105	3346	3751	3669	3122	19208
Pixley Irrigation District	102.69		1195	469	0	0	0	0	1038	4891	2220	0	0	0	10013
Delano-Earlimart Irrigation District	109.48	118.45	6899	2[illegible]03	0	0	6985	18780	16[illegible]99	21247	29570	30184	24[illegible]15	115[illegible]3	168145
Alpaugh Irrigation District	112.96		0	0	0	0	0	0	0	0	[illegible]	[illegible]	0	0	[illegible]
Southern San Joaquin Municipal Utility District	11[illegible].44	127.97	4374	1543	307	0	5173	1[illegible]446	11807	16948	22586	26362	20800	11333	138679
Rag Gulch Water District	117.96		0	0	0	0	0	0	0	0	0	0	0	0	0
Kern County Water Agency	130.03		0	0	0	0	0	0	0	0	0	0	0	0	0
Shafter-Wasco Irrigation District	134.42	137.1[illegible]	2345	846	346	0	4532	8257	5917	8183	10855	13438	11964	6207	72[illegible]
Rosedale Rio Bravo Water Storage District	151.81		0	0	0	0	0	0	0	0	0	0	[illegible]	0	0
Buena Vista Water Storage District	151.81		0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Water Storage District	151.80		2955	6264	1858	0	11514	13298	2475	36825	36137	31526	13570	12504	191206
Styrotek, Inc.	116.40		49	28	0	0	32	31	25	20	17	57	33	44	336
Total			44561	21016	2511	3138	78530	78001	145658	234574	214[illegible]9	223413	1[illegible]133	11[illegible]29	133[illegible]

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 Includes construction water for Hidden and Buchanan Dams.

TABLE B-7

DELIVERIES FROM CALIFORNIA AQUEDUCT[a]

October 1974 through September 1975

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)	62156	110990	170760	166859	135353	136998	117588	93428	12292	16495	253545	233444	1509828
					North San Joaquin Division								
South Bay Pumping Plant	8055	8497	9378	9533	10177	3500	4260	11174	12506	14589	13860	9631	115160
Oak Flat Water District	60	81	21	49	79	11	767	1803	1387	1496	1209	303	7266
Tracy Golf & Country Club	6	0	0	0	0	0	0	0	0	0	0	0	6
Total	8121	8578	9399	9582	10256	3511	5027	12977	13893	16085	15069	9934	122432
California Aqueduct at Check 12 (Inflow to San Luis Field Division)	83261	102736	161144	157217	124969	133010	112399	79502	211	700	233971	223154	1382274
					O'Neill Forebay[b]								
San Luis Water District	236	99	25	300	361	607	1073	1396	1332	1324	971	375	8099
					San Luis Division[b]								
San Luis Water District	1164	498	974	1238	435	308	814	1257	1796	2719	1597	645	12392
Panoche Water District	410	733	1652	4662	4406	5854	3841	2741	4493	7658	6052	1799	44301
Westlands Water District[c]	27320	29071	50015	122724	113015	114657	111688	118062	173549	174146	148907	51093	1234247
City of Huron	49	0	0	14	25	30	31	52	77	83	72	62	495
Avenal Community Service District	41	27	19	28	21	24	27	64	79	85	85	71	571
Total	27929	30329	52660	128666	117902	120873	116401	122176	179996	184691	156713	53670	1292006
					South San Joaquin Division								
Tulare Lake Basin Water Storage District	21615	12920	22946	30308	11810	10139	20074	7972	3481	18671	25258	16008	201202
Empire Westside Irrigation District	101	649	491	663	511	573	586	336	583	767	975	293	6528
Kings County	165	0	165	175	175	175	25	0	175	175	175	175	1580
Dudley Ridge Water District	3069	2539	2166	2886	5373	7820	8143	7979	10074	12430	12454	5421	80356
Hacienda Water District	1794	0	0	588	419	623	1500	1441	500	487	800	800	8952
Kern County Water Agency	11914	11498	12075	30791	44683	61500	47457	69049	102555	117853	118138	43174	670687
Boswell Farms[d]	0	0	0	0	0	0	0	0	0	0	0	0	0
Buena Vista Water Storage District[d]	0	0	0	1465	2062	410	410	370	480	500	500	200	6397
USBR - Fish and Wildlife	0	0	0	0	0	0	0	0	0	0	0	2222	2222
Total	38658	27606	37845	66876	65033	81240	78195	87147	118848	150863	158300	68293	977924
					Coastal Branch								
Devil's Den Water District	300	0	925	1690	2340	2478	1103	946	980	2819	2596	694	16871
Kern County Water Agency	1732	2598	1103	5292	8682	9434	10954	15173	17234	21785	19873	5213	119073
Green Valley Water District	0	0	0	0	0	0	0	404	558	609	646	0	2217
Total	2032	2598	2028	6982	11022	11912	12057	16523	18772	25213	23115	5907	138161

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 construction water and delivery to City of Coalinga.
d Repayment of Preconsolidation water.

TABLE B-8

IMPORTS AND EXPORTS

October 1974 through September 1975

WATER USER	IN ACRE FEET												TOTAL
	OCT.	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT.	
						Imports from Delta							
California Aqueduct (a)	54035	102412	161361	157277	125097	133487	112481	80451	(b) 0	410	238476	223516	1388997
Delta-Mendota Canal	211641	0	627	165228	232299	231177	250702	242842	237787	283595	276087	216442	2348427
Total Imports	265676	102412	161988	322505	357396	364664	363183	323293	237787	284005	145683	439958	3737424
						Exports							
City and County of San Francisco (c)	22945	16723	14865	15846	14314	21211	18448	19055	21747	24615	22322	21564	233654
A. D. Edmonston Pumping Plant (d)	0	23052	73147	63310	54067	61381	13756	18365	3683	60660	69900	57656	469027
Total Exports	22945	39775	88062	79156	68381	82591	32204	37420	25430	85275	92222	79220	702681

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.

(b) Water pumped by South Bay Aqueduct exceeds amount pumped by Delta Pumping Plant. Assumed excess water taken from Aqueduct Storage.

(c) Exports from Tuolumne River.

(d) 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 1974-75 water year.

At the bottom of the stage tables are shown the major river crests occurring for the 1974-75 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
1975	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													15
16						LAKE DRY							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	PERIDD		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
1975	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.18	2.06	1.81	1.90	1.96	1.93	2.09	2.50	2.48	2.53	2.61	2.27	1
2	2.15	2.06	1.81	1.90	1.99	1.93	2.09	2.52	2.49	2.52	2.54	2.26	2
3	2.12	2.06	1.84	1.90	1.96	1.93	2.10	2.51	2.50	2.52	2.54	2.26	3
4	2.07	2.03	1.84	1.91	1.94	1.93	2.10	2.51	2.52	2.51	2.53	2.26	4
5	2.08	1.98	1.83	1.91	1.97	1.94	2.17	2.51	2.52	2.52	2.53	2.26	5
6	2.08	1.98	1.82	1.92	1.99	2.04	2.27	2.50	2.60	2.53	2.52	2.26	6
7	2.08	1.98	1.83	1.92	2.09	1.99	2.16	2.49	2.60	2.52	2.51	2.25	7
8	2.08	1.91	1.84	1.95	2.09	1.99	2.13	2.50	2.59	2.51	2.51	2.25	8
9	2.07	1.75	1.84	1.93	2.09	1.98	2.11	2.50	2.60	2.52	2.51	2.25	9
10	2.08	1.74	1.84	1.92	2.19	1.99	2.09	2.50	2.57	2.50	2.50	2.26	10
11	2.07	1.74	1.84	1.92	2.11	2.06	2.09	2.50	2.56	2.46	2.49	2.24	11
12	2.07	1.74	1.85	1.92	2.10	2.02	2.08	2.50	2.57	2.46	2.49	2.23	12
13	2.07	1.74	1.86	1.92	2.11	2.07	2.06	2.51	2.57	2.45	2.49	2.23	13
14	2.07	1.75	1.86	1.92	2.09	2.22	2.06	2.52	2.58	2.45	2.43	2.23	14
15	2.06	1.76	1.87	1.92	1.99	2.10	2.09	2.52	2.56	2.45	2.36	2.19	15
16	2.06	1.77	1.87	1.92	1.95	2.12	2.09	2.52	2.53	2.45	2.35	2.16	16
17	2.06	1.77	1.87	1.92	1.93	2.12	2.09	2.54	2.54	2.45	2.35	2.16	17
18	2.06	1.76	1.86	1.93	1.92	2.08	2.08	2.54	2.54	2.44	2.35	2.17	18
19	2.06	1.76	1.86	1.93	1.93	2.08	2.09	2.53	2.55	2.44	2.35	2.17	19
20	2.07	1.76	1.87	1.93	1.94	2.07	2.05	2.53	2.54	2.44	2.34	2.17	20
21	2.07	1.78	1.87	1.93	1.94	2.08	2.08	2.52	2.54	2.43	2.33	2.17	21
22	2.09	1.79	1.87	1.93	1.93	2.43	2.03	2.48	2.54	2.44	2.32	2.17	22
23	2.11	1.78	1.87	1.93	1.93	2.23	2.30	2.47	2.54	2.43	2.28	2.17	23
24	2.12	1.78	1.88	1.93	1.94	2.15	2.62	2.47	2.54	2.50	2.29	2.17	24
25	2.12	1.78	1.88	1.93	1.95	2.23	2.62	2.46	2.54	2.60	2.30	2.17	25
26	2.13	1.79	1.89	1.94	1.95	2.24	2.44	2.45	2.54	2.60	2.30	2.16	26
27	2.13	1.79	1.89	1.94	1.95	2.17	2.30	2.45	2.54	2.64	2.30	2.19	27
28	2.15	1.79	1.90	1.94	1.95	2.15	2.29	2.46	2.54	2.69	2.30	2.24	28
29	2.14	1.80	1.90	1.95		2.13	2.38	2.46	2.54	2.69	2.31	2.24	29
30	2.14	1.80	1.90	1.95		2.12	2.49	2.46	2.53	2.68	2.30	2.24	30
31	2.11		1.90	1.95		2.11		2.47		2.68	2.28		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

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B &M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,000	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS
			12,300[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
1975	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	62.18	61.45	61.10	61.20	61.42	62.47	64.48	62.45	62.34	61.23	61.08	62.01	1
2	61.97	62.81	61.09	61.17	62.18	62.66	63.76	62.33	62.26	61.21	61.06	62.01	2
3	62.35	62.90	61.40	61.17	65.66	62.56	63.57	62.30	62.29	61.13	60.99	62.11	3
4	62.74	62.70	62.81	61.17	69.71	62.40	63.62	62.12	61.96	61.14	61.03	62.36	4
5	62.47	62.47	63.98	61.19	70.05	62.20	63.98	62.09	61.75	61.07	61.02	62.25	5
6	62.25	61.71	64.04	61.18	70.23	62.62	64.24	62.10	61.43	61.13	61.13	62.02	6
7	62.00	61.39	63.33	61.17	69.83	62.91	64.85	61.69	61.21	61.23	61.15	61.56	7
8	61.79	61.37	62.80	61.22	68.92	63.61	65.14	61.49	61.22	61.27	61.16	61.44	8
9	61.61	61.33	62.37	61.39	68.07	64.89	65.91	61.46	61.22	61.29	61.15	61.48	9
10	61.64	61.21	61.75	62.83	67.59	65.55	66.33	61.38	61.25	61.26	61.20	61.89	10
11	61.62	61.32	61.54	63.26	67.96	66.45	65.96	61.33	61.28	61.24	61.26	62.18	11
12	61.62	61.24	61.49	62.95	69.16	66.16	65.25	61.34	61.37	61.23	61.32	62.56	12
13	61.69	61.12	61.47	62.53	69.03	65.71	64.70	61.34	61.27	61.19	61.29	62.76	13
14	61.42	61.26	61.48	62.20	68.36	65.66	64.26	61.30	61.20	61.10	61.26	62.95	14
15	61.42	61.33	61.38	61.97	68.46	66.41	63.29	61.35	61.19	61.12	61.40	63.16	15
16	61.35	61.30	61.36	61.81	68.25	66.22	63.08	61.42	61.23	61.28	61.60	63.16	16
17	61.24	61.27	61.53	61.72	67.45	66.44	63.21	61.70	61.20	61.78	61.89	62.92	17
18	61.03	61.25	61.53	61.63	66.55	66.68	63.65	61.79	61.34	61.80	61.81	62.82	18
19	60.93	61.23	61.48	61.56	65.78	66.39	64.01	61.99	61.23	61.63	61.46	62.66	19
20	60.97	61.20	61.42	61.72	65.09	66.07	63.86	62.18	61.21	61.47	62.33	62.60	20
21	60.99	61.18	61.44	61.84	64.54	65.47	63.79	61.95	61.15	61.57	62.92	62.52	21
22	60.95	61.18	61.27	61.78	64.12	65.05	63.48	61.96	61.09	61.51	63.04	62.52	22
23	60.90	61.19	61.35	61.83	63.35	66.22	62.82	62.03	61.09	61.38	63.00	62.51	23
24	60.92	61.05	61.23	61.85	62.92	67.61	62.54	62.03	61.07	61.19	63.10	62.52	24
25	60.98	61.13	61.16	61.81	62.53	67.78	62.52	62.27	61.04	61.08	63.15	62.54	25
26	61.02	61.14	61.14	61.77	62.02	67.33	63.42	62.50	61.06	61.01	62.83	62.61	26
27	60.97	61.12	61.11	61.74	62.09	67.76	63.44	62.37	61.03	60.98	62.29	62.46	27
28	61.09	61.13	61.08	61.69	62.27	68.20	63.38	61.90	61.33	60.98	61.95	62.50	28
29	61.19	61.13	61.16	61.51		67.48	63.47	61.94	61.26	60.98	61.86	62.76	29
30	61.24	61.12	61.21	61.33		66.32	63.26	61.75	61.06	61.01	61.85	62.31	30
31	61.18		61.23	61.33		65.40		62.10		61.06	61.96		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
2-06-75	0515	70.34									

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
1975	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	56.31	55.70	55.32	55.24	55.61	56.75	58.99	56.77	55.95	55.65	55.07	56.56	1
2	56.14	56.22	55.23	55.22	55.95	56.96	58.23	56.55	55.98	55.70	55.10	56.51	2
3	56.21	56.48	55.32	55.20	57.27	56.88	57.84	56.44	56.08	55.62	55.23	56.53	3
4	56.39	56.38	56.09	55.09	61.04	56.75	57.71	56.28	55.94	55.59	55.25	56.54	4
5	56.26	56.28	56.95	55.01	62.24	56.69	57.94	56.27	55.76	55.62	55.28	56.39	5
6	56.04	56.06	57.28	55.04	62.57	56.87	58.16	56.31	55.56	55.66	55.35	56.23	6
7	55.84	55.75	57.06	55.03	62.57	57.19	58.62	56.09	55.45	55.68	55.37	56.06	7
8	55.64	55.80	56.68	55.07	62.17	57.79	58.99	55.89	55.47	55.73	55.40	55.86	8
9	55.56	55.76	56.40	55.07	61.52	58.37	59.46	55.75	55.44	55.60	55.48	55.83	9
10	55.53	55.69	56.11	55.56	60.95	59.00	60.04	55.78	55.45	55.46	55.50	56.10	10
11	55.52	55.71	55.98	56.17	60.88	59.76	60.01	55.79	55.54	55.42	55.37	56.29	11
12	55.45	55.70	55.96	56.16	61.62	59.87	59.50	55.82	55.71	55.26	55.50	56.44	12
13	55.50	55.59	55.96	55.93	62.05	59.60	58.91	55.96	56.04	55.25	55.53	56.49	13
14	55.46	55.67	55.98	55.75	61.77	59.28	58.58	55.92	56.14	55.41	55.42	56.59	14
15	55.41	55.78	55.95	55.63	61.66	59.80	57.98	55.91	55.91	55.47	55.54	56.71	15
16	55.29	55.78	55.89	55.51	61.60	60.00	57.54	55.95	56.10	55.50	55.60	56.82	16
17	55.08	55.76	55.90	55.45	61.12	59.98	57.39	56.09	56.42	55.82	55.68	56.62	17
18	54.90	55.74	55.82	55.38	60.36	60.31	57.56	56.12	56.24	56.03	55.79	56.39	18
19	54.86	55.78	55.68	55.31	59.64	60.16	57.82	56.25	55.60	55.93	56.04	56.35	19
20	54.85	55.85	55.60	55.43	58.95	59.92	57.81	56.33	55.39	55.71	56.61	56.40	20
21	54.98	55.73	55.54	55.66	58.43	59.48	57.64	56.20	55.42	55.67	57.12	56.42	21
22	55.04	55.67	55.46	55.82	58.05	59.00	57.54	56.09	55.55	55.74	57.18	56.44	22
23	55.00	55.67	55.40	55.82	57.66	59.33	57.11	56.26	55.63	55.81	57.15	56.41	23
24	54.96	55.61	55.38	55.89	57.30	60.59	56.74	56.28	55.65	55.72	57.16	56.37	24
25	55.01	55.63	55.38	55.91	57.09	61.17	56.70	56.24	55.50	55.48	57.19	56.26	25
26	55.08	55.62	55.37	55.85	56.67	60.97	57.06	56.30	55.54	55.31	57.23	56.20	26
27	55.18	55.61	55.35	55.82	56.51	61.06	57.33	56.38	55.54	55.28	57.06	56.22	27
28	55.28	55.53	55.35	55.78	56.63	61.45	57.31	56.26	55.62	55.34	56.75	56.16	28
29	55.36	55.49	55.31	55.82		61.33	57.28	56.16	55.67	55.24	56.61	56.41	29
30	55.43	55.44	55.27	55.69		60.58	57.08	55.93	55.69	55.17	56.47	56.51	30
31	55.47		55.27	55.58		59.70		55.81		55.16	56.48		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
2-06-75	1530	62.63									

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
1975	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.36	7.76	8.02	7.50	7.35	7.52	8.81	6.56	8.28	6.36	6.39	7.03	1
2	6.36	7.77	8.02	7.49	8.29	7.51	8.54	6.62	8.24	6.24	6.46	7.18	2
3	6.36	7.75	8.14	7.52	7.75	7.52	8.21	6.66	8.56	6.28	6.43	7.57	3
4	6.35	7.87	8.10	7.52	7.80	7.54	7.91	6.64	8.60	6.27	6.46	7.77	4
5	6.38	8.00	8.07	7.51	7.99	7.59	7.97	6.73	8.55	6.30	6.58	7.79	5
6	6.41	8.02	8.06	7.52	8.52	7.59	7.88	6.90	8.97	6.36	6.53	7.71	6
7	6.46	8.04	8.06	7.50	8.66	7.64	7.78	6.80	10.15	6.43	6.35	7.63	7
8	6.59	8.03	8.06	7.60	8.63	7.64	8.59	6.70	10.19	6.49	6.40	7.64	8
9	8.28	8.03	8.06	7.53	8.74	7.55	8.98	6.60	10.70	6.51	6.46	7.68	9
10	8.57	8.02	7.98	7.50	8.98	7.60	8.73	6.58	11.57	6.49	6.37	7.70	10
11	8.40	8.01	7.89	7.49	9.70	7.56	8.52	6.58	12.15	6.50	6.46	7.82	11
12	8.24	8.01	7.90	7.51	10.08	7.54	8.51	7.13	12.06	6.46	6.35	7.98	12
13	7.39	8.04	7.88	7.50	10.26	7.76	8.53	7.74	11.80	6.52	6.42	8.09	13
14	6.48	8.05	7.87	7.51	10.00	7.67	8.44	8.19	11.87	6.61	6.37	8.12	14
15	6.52	8.05	7.86	7.51	9.47	7.58	8.36	8.28	12.27	6.64	6.35	8.21	15
16	6.48	8.01	7.78	7.50	9.46	7.66	8.29	8.27	12.11	6.64	6.36	8.28	16
17	6.49	8.01	7.62	7.49	9.08	7.58	8.25	8.26	10.92	6.28	6.38	8.27	17
18	6.44	8.05	7.56	7.49	8.44	7.55	8.48	8.27	9.50	6.31	6.47	8.25	18
19	6.43	8.04	7.52	7.51	8.08	7.55	8.40	8.27	8.41	6.30	6.61	8.27	19
20	6.44	8.04	7.51	7.49	8.03	7.55	8.36	8.28	8.06	6.30	6.59	8.28	20
21	6.43	8.06	7.52	7.49	8.04	7.59	8.26	8.33	8.19	6.32	6.55	8.32	21
22	6.38	8.07	7.51	7.49	8.04	7.98	7.78	8.43	8.21	6.32	6.49	8.40	22
23	6.38	8.08	7.49	7.49	8.03	7.60	7.45	8.53	8.18	6.28	6.46	8.48	23
24	6.38	8.08	7.49	7.44	8.01	8.08	7.30	8.47	8.15	6.26	6.57	8.55	24
25	6.59	8.08	7.50	7.46	8.03	9.16	6.99	8.44	8.10	6.29	6.63	8.59	25
26	7.70	8.04	7.50	7.47	7.84	9.94	6.78	8.45	8.10	6.26	6.55	8.58	26
27	7.76	8.05	7.51	7.49	7.55	9.71	6.75	8.44	7.40	6.22	6.51	8.67	27
28	7.78	8.04	7.52	7.49	7.54	9.71	6.73	8.45	6.73	6.25	6.54	8.84	28
29	7.73	8.07	7.52	7.49		9.72	6.72	8.42	6.58	6.25	6.68	8.92	29
30	8.10	8.03	7.51	7.45		9.75	6.65	8.33	6.74	6.24	6.79	8.97	30
31	7.81		7.52	7.29		9.42		8.29		6.24	6.90		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
6-16-75	0130	12.35									

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
1975	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.03	NR	12.33	11.76	11.63	11.81	13.85	11.10	12.48	11.20	10.77	11.30	1
2	11.02	NR	12.33	11.74	13.56	11.78	13.04	11.06	12.48	10.94	10.80	11.37	2
3	11.05	NR	12.49	11.74	14.34	11.75	12.88	11.08	12.50	10.86	10.90	11.41	3
4	11.08	12.07	12.62	11.76	12.50	11.77	12.25	11.08	12.90	10.81	10.96	11.96	4
5	11.09	12.25	12.46	11.75	13.49	11.83	12.20	11.08	12.83	10.82	10.95	12.02	5
6	11.08	12.33	12.39	11.76	12.75	11.88	12.26	11.14	12.72	10.81	11.06	12.06	6
7	11.08	12.35	12.37	11.77	13.16	11.94	12.05	11.15	14.21	10.79	11.02	11.99	7
8	11.09	12.38	12.37	11.77	13.21	12.88	12.48	11.03	15.25	10.79	10.92	11.99	8
9	11.24	12.36	12.36	11.86	13.94	12.71	13.43	11.02	15.36	10.84	10.92	12.03	9
10	12.71	12.35	12.37	11.82	14.04	12.03	13.52	10.95	16.83	10.87	10.97	12.02	10
11	13.11	12.34	12.23	11.76	14.29	12.21	12.95	10.92	18.14	10.85	10.90	12.05	11
12	12.78	12.35	12.18	11.76	15.23	11.96	12.86	10.92	18.69	10.89	10.90	12.25	12
13	12.67	12.35	12.19	11.76	15.63	11.91	12.84	11.48	18.19	10.87	10.87	12.40	13
14	11.62	12.37	12.16	11.75	16.59	13.11	12.83	12.01	17.89	10.89	10.88	12.58	14
15	11.12	12.37	12.15	11.75	15.15	12.22	12.72	12.31	18.37	10.91	10.86	12.63	15
16	11.05	12.37	12.14	11.74	14.56	12.05	12.59	12.40	18.76	10.96	10.87	12.79	16
17	11.00	12.34	12.01	11.72	14.48	12.22	12.53	12.41	17.81	11.05	10.90	12.79	17
18	10.99	12.34	11.90	11.71	13.51	11.93	12.60	12.46	15.66	10.82	10.96	12.75	18
19	10.96	12.37	11.84	11.71	12.76	11.86	12.74	12.49	13.74	10.80	11.11	12.76	19
20	10.96	12.36	11.80	11.73	12.53	11.84	12.62	12.48	12.74	10.79	11.17	12.84	20
21	10.96	12.37	11.80	11.71	12.42	11.84	12.61	12.52	12.49	10.81	11.15	12.85	21
22	10.95	12.38	11.80	11.71	12.39	12.96	12.39	12.63	12.55	10.83	11.07	12.97	22
23	10.92	12.40	11.78	11.70	12.35	12.46	11.82	12.77	12.52	10.87	10.98	13.07	23
24	10.92	12.41	11.76	11.70	12.32	12.05	11.69	12.87	12.49	10.78	11.04	13.15	24
25	10.91	12.40	11.76	11.68	12.27	12.91	NR	12.74	12.41	10.77	11.03	13.26	25
26	11.10	12.38	11.76	11.70	12.31	14.99	NR	12.76	12.34	10.77	11.06	13.33	26
27	NR	12.35	11.76	11.70	11.95	14.90	NR	12.77	12.23	10.78	10.98	13.27	27
28	NR	12.37	11.78	11.72	11.83	14.74	NR	12.72	11.42	10.76	10.93	13.47	28
29	NR	12.35	11.77	11.71		14.72	NR	12.69	11.22	10.67	10.96	13.64	29
30	NR	12.39	11.76	11.71		14.75	NR	12.62	11.16	10.77	11.04	13.64	30
31	NR		11.76	11.64		14.72		12.51		10.77	11.18		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-12-75	1900	18.80									

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
1975	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	49.45	50.39	50.09	49.66	49.99	50.71	53.99	50.41	50.56	49.84	NR	49.84	1
2	49.41	50.44	50.06	49.63	50.14	50.74	53.04	50.26	50.64	49.78	NR	49.91	2
3	49.51	50.56	50.18	49.60	51.78	50.68	52.30	50.14	50.63	49.62	NR	49.95	3
4	49.61	50.53	50.67	49.57	53.62	50.60	52.04	50.03	50.61	49.51	NR	49.96	4
5	49.53	50.43	51.20	49.52	54.63	50.56	51.80	49.94	50.72	49.50	49.09	50.11	5
6	49.32	50.46	51.37	49.51	55.41	50.71	51.76	49.91	50.69	49.52	49.07	50.14	6
7	49.22	50.39	51.31	49.51	55.57	50.96	51.96	49.91	50.59	49.45	49.07	50.05	7
8	49.13	50.46	51.12	49.52	55.57	51.38	52.16	49.78	51.53	49.44	49.10	50.03	8
9	49.10	50.48	50.95	49.54	55.08	52.15	52.55	49.65	52.26	49.36	49.07	50.08	9
10	49.21	50.45	50.79	49.68	54.83	52.35	53.30	49.58	52.57	49.28	49.16	50.12	10
11	49.87	50.44	50.73	49.93	54.55	52.42	53.57	49.55	53.61	49.21	49.14	50.27	11
12	50.23	50.40	50.62	49.93	55.00	52.66	53.24	49.56	54.60	49.15	49.10	50.42	12
13	50.26	50.37	50.59	49.83	56.04	52.43	52.81	49.61	55.06	49.12	49.13	50.53	13
14	50.29	50.40	50.60	49.78	56.50	52.22	52.50	49.77	NR	49.24	49.11	50.60	14
15	49.78	50.48	50.06	49.75	56.65	52.85	52.12	50.01	53.79	49.25	49.10	50.81	15
16	49.39	50.52	50.53	49.73	56.12	52.90	51.63	50.27	55.16	49.33	49.16	50.94	16
17	49.16	50.53	50.40	49.72	55.50	52.79	51.44	50.56	55.39	49.42	49.28	50.95	17
18	48.98	50.50	50.25	49.69	53.63	52.95	51.49	50.63	54.97	49.51	49.45	50.77	18
19	48.92	50.48	50.06	49.69	53.72	52.84	51.75	50.73	53.38	49.38	49.59	50.78	19
20	48.90	50.50	49.95	49.98	52.83	52.53	51.97	50.76	51.85	49.37	49.71	50.76	20
21	48.95	50.43	49.87	50.11	52.27	52.22	51.88	50.77	51.04	49.38	50.07	50.83	21
22	49.03	50.36	49.81	50.22	51.89	51.96	51.73	50.76	50.90	49.29	50.21	50.99	22
23	48.97	50.34	49.76	50.25	51.63	52.43	51.43	50.78	50.95	49.21	50.18	51.00	23
24	48.94	50.32	49.73	50.26	51.39	51.89	50.90	50.84	50.76	49.07	50.12	51.02	24
25	48.92	50.31	49.70	50.26	51.25	53.36	50.79	50.90	50.71	48.92	50.27	51.12	25
26	48.94	50.24	49.69	50.20	51.08	53.95	50.75	50.99	50.62	48.86	50.21	51.12	26
27	49.11	50.19	49.69	50.15	50.95	54.84	50.82	51.05	50.53	48.94	50.00	51.17	27
28	49.64	50.17	49.71	50.07	50.78	55.28	50.78	50.95	50.43	48.82	49.88	51.16	28
29	49.94	50.15	49.73	50.10		55.42	50.68	50.78	50.07	NR	49.69	51.41	29
30	50.05	50.10	49.70	50.06		55.15	50.57	50.72	49.88	NR	49.66	51.59	30
31	50.06		49.69	50.00		54.59		50.60		NR	49.65		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
2-15-75	0200	56.74									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 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
1975	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33.82	34.30	33.95	33.63	33.90	34.70	38.48	34.15	34.43	33.67	32.95	33.68	1
2	33.86	34.43	33.93	33.60	33.96	34.69	37.69	33.95	34.64	33.67	32.88	33.73	2
3	33.91	34.50	34.06	33.58	34.44	34.61	36.83	33.82	34.53	33.58	32.96	33.79	3
4	33.99	34.55	34.37	33.56	36.19	34.48	36.34	33.93	34.47	33.51	33.03	33.79	4
5	33.96	34.47	34.80	33.53	37.37	34.55	36.08	33.82	34.50	33.55	33.02	33.92	5
6	33.73	34.43	35.02	33.51	38.38	34.85	35.96	33.68	34.41	33.55	32.98	33.94	6
7	33.78	34.46	35.08	33.52	38.91	35.20	36.05	33.79	34.20	33.46	33.02	33.96	7
8	33.78	34.51	34.96	33.51	39.17	35.68	36.33	33.63	34.69	33.33	33.04	33.87	8
9	33.65	34.52	34.81	33.51	39.09	36.35	36.45	33.51	35.51	33.33	33.00	33.93	9
10	33.56	34.51	34.66	33.54	38.70	36.63	36.99	33.44	35.89	33.27	33.08	33.95	10
11	33.82	34.49	34.56	33.71	38.65	36.45	37.39	33.51	36.53	33.15	33.16	34.16	11
12	34.21	34.49	34.49	33.80	38.48	36.59	37.44	33.63	37.58	33.07	33.08	34.33	12
13	34.33	34.43	34.41	33.77	39.16	36.66	37.12	33.51	38.34	33.06	32.96	34.39	13
14	34.32	34.38	34.41	33.71	40.02	36.65	36.78	33.59	38.72	33.16	32.96	34.58	14
15	34.15	34.41	34.41	33.70	40.46	36.71	36.46	33.82	38.78	33.23	33.01	34.85	15
16	33.80	34.41	34.36	33.68	40.38	36.92	35.87	34.15	38.89	33.37	33.03	34.83	16
17	33.62	34.40	34.30	33.66	39.87	36.87	35.53	34.39	39.16	33.40	33.29	34.87	17
18	33.47	34.39	34.22	33.64	39.27	36.78E	35.32	34.54	39.23	33.45	33.56	34.81	18
19	33.40	34.36	34.08	33.61	38.43	36.65E	35.44	34.71	38.35	33.42	33.75	34.61	19
20	33.36	34.36	33.95	33.70	37.40	36.54E	35.69	34.70	36.76	33.37	33.68	34.58	20
21	33.33	34.33	33.86	33.87	36.62	36.42E	35.74	34.74	35.52	33.31	33.99	34.68	21
22	33.41	34.26	33.78	34.00	36.07	36.29	35.54	34.87	35.16	33.22	34.14	34.87	22
23	33.44	34.21	33.73	34.06	35.77	36.42	35.41	34.81	35.08	33.14	34.07	34.92	23
24	33.40	34.16	33.70	34.11	35.51	36.86	34.99	34.76	34.84	33.07	34.00	34.94	24
25	33.35	34.16	33.68	34.12	35.32	37.13	34.74	34.79	34.82	32.96	34.00	35.07	25
26	33.31	34.13	33.66	34.07	35.13	37.60	34.69	34.77	34.67	32.87	33.89	35.04	26
27	33.35	34.07	33.66	34.03	34.97	38.21	34.67	34.90	34.46	32.82	33.78	34.99	27
28	33.65	34.04	33.67	33.97	34.85	38.98	34.66	34.69	34.31	32.86	33.67	35.15	28
29	33.93	34.02	33.69	33.95		39.32	34.42	34.57	34.16	32.95	33.55	35.37	29
30	34.06	33.98	33.66	33.97		39.45	34.25	34.51	33.90	32.99	33.57	35.58	30
31	34.13		33.64	33.91		39.14		34.40		32.97	33.72		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
2-15-75	1615	40.52									

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 40	121 04 50	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
			9600b	46.12	2-16-73			1959		3.53	USED

Station located on 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
1975	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	72.40	73.71	71.68	72.38	73.06	71.34	70.86	70.22	70.36	69.67	69.58	69.67	1
2	71.93	74.04	71.86	71.99	72.06	71.37	70.71	70.19	69.82	69.66	69.77	69.66	2
3	71.91	73.90	72.24	73.60	71.70	71.56	70.29	70.24	69.74	69.66	69.77	69.95	3
4	71.69	73.79	71.96	73.32	72.76	72.25	70.25	70.26	69.74	69.67	69.69	70.54	4
5	71.27	72.31	72.16	72.44	72.64	72.24	70.54	70.26	70.19	69.67	70.14	71.20	5
6	71.19	71.72	72.21	72.08	72.56	72.48	70.42	70.26	70.29	69.70	70.10	71.28	6
7	71.14	71.70	72.18	73.57	72.53	72.41	70.34	70.28	69.96	69.63	69.72	71.33	7
8	71.17	71.69	72.18	73.40	72.11	72.07	70.81	70.39	69.82	69.69	69.65	71.01	8
9	71.11	71.69	72.14	73.50	71.67	71.43	70.71	70.29	69.79	69.80	69.87	70.94	9
10	71.05	71.70	72.18	73.55	71.57	71.73	70.55	70.29	70.27	69.83	69.80	71.20	10
11	71.34	71.70	72.18	73.21	72.41	72.52	70.31	70.29	70.44	70.10	69.69	70.94	11
12	71.27	71.67	72.21	72.30	72.35	71.27	70.23	70.28	70.02	69.98	69.98	71.35	12
13	70.89	71.67	72.18	71.96	72.58	71.04	70.22	70.41	69.85	69.71	69.80	71.29	13
14	70.27	71.67	72.19	73.52	72.56	71.37	70.22	70.64	70.24	69.64	69.69	70.92	14
15	70.60	71.75	72.18	73.55	72.19	71.12	70.22	70.30	69.85	69.79	69.65	70.87	15
16	72.59	71.79	72.08	73.58	71.55	71.14	70.21	70.30	69.77	69.70	69.67	70.85	16
17	72.57	71.80	71.63	73.61	70.99	71.13	70.21	70.31	69.73	69.65	69.68	70.84	17
18	72.58	71.80	71.56	73.31	71.52	71.31	70.22	70.32	69.73	69.78	69.93	70.99	18
19	72.48	71.77	71.56	72.39	72.49	72.23	70.22	70.31	69.75	69.67	70.20	71.32	19
20	72.73	71.77	71.77	71.99	72.56	72.52	70.23	70.33	69.74	69.63	69.82	70.93	20
21	72.81	71.78	71.95	73.62	72.62	72.42	70.22	70.31	69.73	69.62	69.66	70.85	21
22	73.49	71.78	71.42	73.58	72.28	72.26	70.22	70.32	69.74	69.76	69.81	70.87	22
23	73.58	71.78	71.37	73.62	71.52	71.43	70.22	70.32	69.75	70.69	69.71	71.28	23
24	73.57	71.79	72.12	73.52	71.58	71.59	70.22	70.47	69.72	70.41	69.68	71.39	24
25	73.57	71.79	72.35	73.06	72.33	72.17	70.22	70.34	69.76	70.26	69.67	71.62	25
26	73.48	71.77	71.98	72.11	71.94	71.19	70.24	70.33	69.75	70.31	69.86	71.64	26
27	73.37	71.65	73.35	71.96	71.18	71.01	70.25	70.32	69.74	69.84	69.71	71.43	27
28	73.45	71.59	73.15	73.56	71.03	70.95	70.22	70.61	69.74	69.71	69.68	71.04	28
29	73.57	71.48	72.44	73.58		70.89	70.23	70.79	69.74	69.76	69.66	70.85	29
30	73.42	71.67	72.06	73.59		70.88	70.23	70.86	69.70	69.68	69.66	70.99	30
31	73.35		73.31	73.61		70.88		70.74		69.63	69.68		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- 7-75	0315	74.95									
2- 1-75	0330	74.92									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-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
1975	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.53	68.78	68.85	67.60	67.59	67.84	68.36	68.39	68.32	68.91	68.36	68.49	1
2	68.51	68.69	69.11	67.60	67.59	67.85	68.25	68.51	68.38	68.42	68.41	68.46	2
3	68.59	68.59	69.34	67.63	70.46	68.02	68.31	68.56	68.37	68.46	68.36	68.44	3
4	68.50	68.55	69.21	67.65	70.31	68.31	68.43	68.61	68.36	68.36	68.38	68.46	4
5	68.51	68.54	69.91	67.64	70.36	68.35	68.34	68.59	68.30	68.34	68.37	68.67	5
6	68.52	68.56	69.67	67.70	69.21	68.34	69.43	68.54	68.31	68.39	68.29	68.58	6
7	68.50	68.57	69.56	67.74	68.52	68.23	70.18	68.61	68.39	68.92	68.26	68.53	7
8	68.47	68.93	69.50	67.71	68.45	68.67	69.65	68.43	68.28	68.86	68.33	68.54	8
9	68.43	69.55	69.47	67.69	68.83	70.25	69.43	68.43	68.32	68.35	68.35	68.56	9
10	68.47	69.54	69.47	67.75	72.62	69.28	69.11	68.35	68.32	68.29	68.33	68.56	10
11	68.54	69.52	69.64	67.92	70.16	69.14	68.77	68.49	68.39	68.34	68.34	68.51	11
12	68.51	69.51	69.65	67.79	68.82	69.07	68.65	68.43	68.40	68.39	68.44	68.57	12
13	68.56	69.50	69.61	67.71	68.91	68.89	68.58	68.38	68.45	68.43	68.36	68.51	13
14	68.49	69.33	69.58	67.67	73.64	72.51	68.49	68.37	68.31	68.32	68.31	68.33	14
15	68.41	68.90	69.54	67.68	70.19	71.50	68.40	68.21	68.24	68.32	68.28	68.43	15
16	68.69	68.91	69.50	67.65	68.76	69.77	68.34	68.36	68.53	68.33	68.40	68.51	16
17	68.55	68.86	69.49	67.60	68.44	72.58	68.42	68.34	69.12	68.30	68.36	68.51	17
18	68.49	68.96	69.46	67.59	68.32	69.47	68.51	68.26	68.32	68.35	68.47	68.47	18
19	68.46	69.27	69.47	67.58	68.23	68.79	68.47	68.21	68.40	68.37	68.89	68.57	19
20	68.40	67.99	69.46	67.57	68.16	68.53	68.46	68.33	68.49	68.43	68.77	68.56	20
21	68.48	67.73	68.47	67.57	68.12	68.41	68.54	68.35	68.49	68.45	68.69	68.67	21
22	69.92	67.69	67.78	67.57	68.18	70.29	68.53	68.31	68.54	68.70	68.63	68.64	22
23	70.68	67.67	67.73	67.57	68.12	73.00	68.52	68.37	68.90	68.60	68.51	68.61	23
24	70.73	67.68	67.80	67.56	68.06	69.79	68.47	68.38	69.03	68.35	68.51	68.65	24
25	70.69	67.67	67.65	67.57	68.01	69.50	68.44	68.37	68.37	68.31	68.61	68.57	25
26	69.49	67.67	67.62	67.56	68.00	71.46	68.61	68.33	68.40	68.27	68.64	68.54	26
27	69.14	67.67	67.62	67.55	67.96	69.59	68.66	68.24	68.44	68.38	68.64	68.65	27
28	69.09	67.67	67.64	67.56	67.90	68.79	68.50	68.23	68.39	68.38	68.43	68.59	28
29	68.96	67.66	67.61	67.56		68.54	68.57	68.27	68.32	68.38	68.42	68.54	29
30	68.65	67.71	67.61	67.55		68.45	68.46	68.30	68.73	68.38	68.41	68.54	30
31	68.67		67.60	67.55		68.41		68.30		68.34	68.48		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
3-23-75	0030	76.05									

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
1975	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	42.76	44.63	NR	43.49	44.90	41.77	41.76	41.30	NR	41.04	40.[illegible]	40.90	1
2	42.34	45.52	NR	41.95	43.13	42.04	41.70	41.31	NR	40.92	40.87	40.90	2
3	42.27	45.69	NR	43.77	42.22	41.77	41.56	41.32	NR	40.96	40.95	40.90	3
4	42.22	45.49	NR	44.33	43.67	42.31	41.43	41.35	NR	40.95	40.96	41.20	4
5	42.06	44.56	NR	43.62	43.75	NR	41.48	41.35	NR	40.99	40.99	41.48	5
6	42.00	42.64	NR	42.01	43.46	NR	41.66	41.35	40.46	41.07	41.14	41.67	6
7	41.99	42.35	NR	44.05	43.21	NR	41.73	41.36	41.15	41.10	41.04	41.75	7
8	41.98	42.34	NR	44.24	43.02	NR	41.95	41.38	41.04	41.10	40.89	41.66	8
9	41.93	42.41	41.78	44.20	42.37	NR	42.06	41.39	40.98	40.99	40.91	41.59	9
10	41.82	42.41	42.80	44.45	42.52	NR	41.91	41.31	41.06	40.97	40.99	41.65	10
11	41.87	42.40	42.83	44.48	43.13	NR	41.69	41.36	41.31	41.04	40.97	41.62	11
12	41.92	42.38	42.87	43.47	42.91	NR	41.51	41.35	41.19	41.10	40.93	41.71	12
13	41.83	42.39	42.87	41.99	43.15	NR	41.46	41.37	41.07	41.06	41.01	41.76	13
14	41.66	42.37	42.85	43.80	44.33	NR	41.42	41.49	41.06	40.93	40.96	41.63	14
15	41.45	42.34	42.89	44.44	43.69	NR	41.40	41.38	41.12	40.89	40.84	41.62	15
16	42.01	42.40	42.79	44.60	42.44	NR	41.38	41.35	41.00	39.94	40.89	41.58	16
17	42.49	42.41	42.28	44.65	41.91	41.62	41.37	41.33	41.15	40.92	40.90	41.54	17
18	42.49	42.41	42.11	44.65	41.78	42.25	41.42	41.33	40.92	40.91	41.09	41.58	18
19	42.41	42.46	42.07	43.81	42.62	42.49	41.41	41.33	40.98	41.00	41.48	41.83	19
20	42.52	42.31	42.06	41.67	43.05	43.21	41.42	41.34	40.99	40.91	41.40	41.66	20
21	42.58	42.30	42.30	44.03	42.92	43.26	41.42	41.41	41.01	40.94	41.08	41.60	21
22	43.30	42.30	41.96	44.57	43.14	43.56	41.38	NR	41.00	40.91	40.97	41.57	22
23	44.83	42.29	41.72	44.72	42.34	44.07	41.38	NR	41.01	41.16	41.00	41.71	23
24	45.19	42.29	42.08	44.64	41.86	42.42	41.40	NR	41.10	41.46	40.93	41.80	24
25	45.24	42.30	42.53	44.38	42.53	43.02	41.41	NR	40.93	41.26	40.99	41.91	25
26	45.08	42.29	41.96	43.26	42.61	43.13	41.38	NR	40.94	41.25	41.05	42.00	26
27	44.79	42.26	43.24	41.96	42.03	42.28	41.42	NR	40.96	41.12	41.13	41.97	27
28	44.65	42.22	43.81	43.92	41.80	42.00	41.35	NR	40.93	41.05	41.04	41.79	28
29	44.82	42.12	43.21	44.56		41.81	41.34	NR	40.93	40.96	41.00	41.65	29
30	44.82	42.20	42.03	44.76		41.80	41.33	NR	40.96	40.98	41.00	41.65	30
31	44.60		43.49	44.68		41.81		NR		40.90	41.00		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
2-01-75	1230	45.91									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	1878-1884 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
1975	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	28.04	29.99	27.17	28.81	30.03	25.71	26.33	24.31	24.63	23.57	23.30	23.29	1
2	27.70	30.54	27.36	27.23	28.97	26.15	25.93	24.31	24.34	23.39	23.25	23.28	2
3	27.11	30.96	27.83	27.64	27.22	25.93	25.44	24.33	23.88	23.37	23.32	23.18	3
4	27.04	30.85	28.05	29.38	28.36	26.75	24.96	24.36	23.64	23.39	23.38	23.44	4
5	26.69	30.42	27.50	29.08	28.90	27.47	24.92	24.40	23.58	23.44	23.33	24.20	5
6	26.30	28.61	27.94	27.48	29.10	27.90	25.22	24.36	23.82	23.57	23.67	24.92	6
7	26.22	27.66	28.13	27.88	28.90	28.29	25.51	24.38	24.00	23.55	23.66	25.27	7
8	26.15	27.50	28.12	29.43	28.85	28.43	25.69	24.32	23.79	23.66	23.30	25.32	8
9	26.07	27.61	28.10	29.36	28.21	28.08	26.21	24.40	23.66	23.50	23.28	25.01	9
10	25.74	27.61	28.04	29.53	27.99	27.46	26.10	24.27	23.56	23.38	23.39	25.00	10
11	25.63	27.60	28.08	29.64	28.48	27.96	25.64	24.35	24.02	23.45	23.41	25.15	11
12	25.85	27.56	28.11	29.05	28.62	28.62	25.17	24.32	24.33	23.71	23.29	25.13	12
13	25.75	27.55	28.12	27.32	28.71	27.22	24.95	24.28	24.10	23.69	23.44	25.46	13
14	25.31	27.53	28.10	27.78	29.65	27.20	24.82	24.45	24.15	23.53	23.40	25.40	14
15	24.71	27.42	28.12	29.43	30.20	28.36	24.68	24.60	24.59	23.28	23.23	25.09	15
16	25.24	27.50	28.11	29.70	29.04	27.28	24.57	24.34	24.57	23.44	23.22	25.08	16
17	27.41	27.56	27.58	29.78	27.81	27.69	24.51	24.28	24.79	23.40	23.30	24.83	17
18	27.63	27.55	26.80	29.85	26.83	27.41	24.56	24.33	24.78	23.38	23.40	24.87	18
19	27.60	27.61	26.62	29.33	27.46	27.33	24.56	24.26	24.56	23.42	24.33	25.10	19
20	27.58	27.47	26.54	27.48	28.32	28.35	24.61	24.22	23.90	23.37	24.58	25.37	20
21	27.83	27.28	26.90	28.00	28.36	28.72	24.58	24.34	23.59	23.37	23.96	25.09	21
22	28.25	27.26	26.58	29.59	28.38	28.82	24.46	24.22	23.59	23.24	23.51	24.96	22
23	29.70	27.20	25.85	29.82	27.67	29.52	24.42	24.22	23.49	23.40	23.49	25.05	23
24	30.41	27.20	26.00	29.87	26.48	28.15	24.43	24.27	23.66	24.28	23.39	25.50	24
25	30.53	27.20	27.03	29.72	26.93	28.08	24.56	24.38	23.47	24.17	23.33	25.75	25
26	30.50	27.19	26.85	28.87	27.62	28.73	24.43	24.27	23.36	23.96	23.31	26.07	26
27	30.25	27.16	27.32	27.11	26.93	27.85	24.56	24.21	23.41	23.97	23.41	26.18	27
28	30.10	27.01	28.84	27.94	26.01	27.05	24.47	24.17	23.41	23.63	23.40	25.89	28
29	30.15	26.86	28.63	29.59		26.67	24.36	24.50	23.42	23.47	23.24	25.41	29
30	30.24	26.80	27.29	29.84		26.60	24.35	24.73	23.36	23.40	23.24	25.09	30
31	30.10		27.60	29.87		26.66		24.83		23.35	23.29		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
11-03-74	2115	31.04									

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	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
1975	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17.74	18.88	17.37	17.72	18.62	17.27	20.01	15.83	17.99	15.52	14.48	15.15	1
2	17.74	19.10	17.52	17.34	18.46	17.29	19.44	15.67	18.76	15.30	14.40	15.05	2
3	17.37	19.47	17.77	16.71	17.57	17.37	18.67	15.67	19.34	15.23	14.45	15.10	3
4	17.27	19.46	18.25	17.92	17.97	17.21	18.04	16.25	20.07	15.23	14.57	15.06	4
5	17.15	19.45	18.18	18.03	19.31	17.68	17.71	16.66	20.13	15.26	14.47	15.43	5
6	16.83	18.65	18.41	17.45	20.23	18.01	17.65	16.58	19.81	15.34	14.44	15.88	6
7	16.69	17.83	18.69	16.81	20.77	18.50	17.82	16.81	20.09	15.30	14.54	16.14	7
8	16.66	17.64	18.72	18.01	21.00	18.92	18.03	16.89	20.25	15.17	14.55	16.27	8
9	16.58	17.67	18.65	18.08	20.91	19.10	18.57	16.83	20.61	15.19	14.54	16.13	9
10	16.33	17.67	18.54	18.16	20.63	19.12	18.75	16.76	20.80	15.08	14.57	16.03	10
11	16.22	17.64	18.48	18.31	20.72	19.13	18.74	16.52	20.75	14.86	14.68	16.27	11
12	16.61	17.63	18.46	18.22	20.89	19.71	18.59	16.43	20.34	14.89	14.63	16.37	12
12	16.80	17.66	18.44	17.49	20.93	19.57	18.35	16.28	19.35	14.90	14.53	16.59	13
14	16.74	17.67	18.42	16.91	21.56	19.47	18.12	16.53	19.64	14.83	14.47	16.60	14
15	16.41	17.60	18.43	18.01	22.36	20.08	17.82	16.74	20.45	14.74	14.43	16.64	15
16	16.22	17.61	18.42	18.27	22.04	19.90	17.44	16.90	20.80	14.75	14.44	16.69	16
17	16.97	17.62	18.25	18.40	21.37	19.88	17.01	17.02	20.90	14.92	14.68	16.60	17
18	17.15	17.60	17.75	18.44	20.61	19.96	16.91	17.24	21.02	14.92	15.23	16.58	18
19	17.08	17.60	17.51	18.26	20.30	19.75	16.83	17.30	20.78	15.05	15.88	16.58	19
20	16.97	17.57	17.36	17.57	20.41	20.08	16.93	17.38	19.62	15.08	15.96	16.77	20
21	17.06	17.40	17.34	16.96	20.12	20.30	17.01	17.55	17.75	15.01	15.79	16.73	21
22	17.17	17.34	17.16	18.28	19.78	20.31	16.84	17.62	16.98	14.75	15.71	16.73	22
22	17.85	17.26	16.58	18.55	19.45	20.69	16.74	17.49	16.65	14.56	15.76	16.77	23
24	18.47	17.24	16.36	18.65	18.77	20.52	16.56	17.42	16.39	14.72	15.68	16.92	24
25	18.67	17.30	16.79	18.62	18.47	20.18	16.40	17.52	16.24	14.95	15.48	17.06	25
26	18.75	17.33	16.98	18.31	18.92	20.62	16.36	17.51	16.05	14.67	15.13	17.28	26
27	18.68	17.37	16.65	17.48	18.44	20.60	16.42	17.54	15.93	14.71	15.03	17.35	27
28	18.66	17.36	17.68	17.02	17.67	20.37	16.41	17.54	15.81	14.53	14.98	17.34	28
29	18.77	17.32	17.79	18.20		20.32	16.20	17.51	15.79	14.50	14.87	17.23	29
30	18.93	17.23	17.34	18.47		20.46	15.96	17.55	15.72	14.51	14.87	17.15	30
31	18.95		16.78	18.57		20.50		17.63		14.59	15.07		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
2-15-75	1035	22.40									

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	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.66	1.87	4.97	2.23	1.54	4.38	5.32	2.27	12.55	1.61	1.77	1.70	1
2	1.72	1.84	4.98	2.21	1.67	4.37	4.68	3.77	13.50	2.45	1.71	1.71	2
3	1.70	1.80	5.06	2.25	1.93	3.68	4.18	6.76	12.47	3.16	1.69	1.69	3
4	1.71	1.81	5.05	2.23	4.01	1.87	3.95	7.45	10.43	2.53	1.71	1.64	4
5	1.67	1.95	4.91	2.26	6.52	1.72	3.93	7.64	12.36	2.74	1.70	1.67	5
6	1.68	2.17	4.89	2.30	6.49	1.70	4.16	7.62	11.94	2.52	1.74	1.65	6
7	1.72	2.21	4.89	2.11	6.31	1.70	4.28	7.81	12.05	3.36	1.69	1.62	7
8	1.78	2.22	4.87	2.06	6.05	2.34	4.65	7.71	11.98	4.03	1.63	1.64	8
9	1.72	2.25	4.86	2.04	6.54	4.21	4.77	7.09	11.57	3.18	1.62	1.66	9
10	1.69	2.26	4.85	2.01	6.62	4.19	4.77	6.21	10.07	2.09	1.66	1.65	10
11	1.77	2.26	4.84	1.98	6.50	5.12	4.81	6.19	7.69	1.72	1.69	1.62	11
12	1.79	2.25	4.83	1.99	6.46	6.11	4.81	6.64	5.87	1.75	1.63	1.66	12
13	1.75	2.25	4.83	1.97	6.84	6.28	4.79	7.27	8.45	1.73	1.62	1.63	13
14	1.68	2.25	4.81	1.98	6.57	6.34	4.33	6.93	9.44	1.70	1.64	1.62	14
15	1.68	2.26	4.80	1.97	6.45	6.13	3.81	7.04	9.41	1.75	1.63	1.60	15
16	1.61	2.26	4.81	1.95	6.42	6.61	3.44	7.03	9.45	1.81	1.62	1.62	16
17	1.62	2.25	4.80	1.94	6.40	6.15	3.26	7.09	9.19	1.82	1.61	1.60	17
18	1.61	2.25	4.78	1.96	6.39	6.10	3.13	7.13	8.65	1.77	1.71	1.56	18
19	1.58	2.21	4.77	1.96	6.39	6.07	2.97	7.28	5.82	1.78	1.75	1.58	19
20	1.58	2.22	4.39	1.93	6.39	6.06	2.90	7.40	3.35	1.73	1.66	1.64	20
21	1.64	2.21	3.16	1.98	6.38	6.08	2.90	7.39	2.26	1.72	1.63	1.67	21
22	1.60	2.40	2.99	1.94	6.36	6.78	3.06	7.29	1.88	1.73	1.62	1.65	22
23	2.69	3.54	2.96	1.96	6.35	6.17	3.04	7.23	1.77	1.72	1.56	1.65	23
24	3.02	3.83	2.71	1.95	6.34	6.21	3.06	7.13	1.74	1.65	1.55	1.66	24
25	3.46	4.20	2.10	1.95	5.91	6.33	3.07	7.24	1.71	1.64	1.56	1.66	25
26	3.34	4.94	2.03	1.93	4.71	6.15	3.05	7.31	1.70	1.68	1.56	1.61	26
27	3.35	4.95	2.03	1.95	4.41	6.09	3.05	7.46	1.72	1.70	1.71	1.62	27
28	3.28	4.96	2.04	1.95	4.40	6.07	3.05	7.52	1.73	1.74	1.74	1.62	28
29	2.99	4.97	2.17	1.96		6.06	2.87	7.57	1.68	1.73	1.74	1.62	29
30	1.93	4.99	2.24	1.81		5.79	2.82	7.74	1.62	1.70	1.73	1.65	30
31	1.91		2.25	1.60		5.42		10.61		1.75	1.68		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
6-02-75	1815	13.88									

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 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 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
1975	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	37.86	37.88	40.94	37.03	36.50	41.28	42.96	38.79	50.37	38.79	37.62	37.89	1
2	37.88	37.68	41.03	36.99	36.46	41.25	42.47	38.24	53.02	38.50	37.37	37.44	2
3	37.63	37.47	41.53	36.96	36.45	41.08	41.76	40.27	54.85	38.66	37.09	37.30	3
4	37.79	37.36	41.98	36.95	36.59	40.09	41.22	44.12	54.84	39.28	37.28	37.33	4
5	37.87	37.30	41.63	36.92	39.12	39.42	40.87	45.41	53.37	39.06	37.36	37.02	5
6	37.31	37.31	41.64	36.90	42.50	39.07	40.78	45.88	54.34	39.45	37.06	37.04	6
7	37.24	37.50	41.78	36.91	43.15	38.95	41.02	46.57	54.38	39.25	37.26	37.54	7
8	37.35	37.61	41.82	36.89	43.18	39.10	41.79	46.62	54.44	39.80	37.51	38.07	8
9	37.29	37.38	41.80	36.91	43.02	39.17	42.54	46.70	54.47	40.54	37.31	37.77	9
10	37.30	37.15	41.80	36.94	43.77	40.60	42.63	45.77	54.10	39.71	37.51	37.37	10
11	37.37	37.09	41.80	36.87	43.88	40.84	42.42	44.46	52.78	38.60	37.43	37.32	11
12	37.65	37.07	41.79	36.85	43.75	42.09	42.16	44.37	49.25	38.23	37.21	37.27	12
13	38.02	37.06	41.83	36.82	43.88	43.35	42.19	45.05	46.20	38.21	37.19	37.05	13
14	38.26	36.44	41.88	36.80	44.86	44.43	41.81	45.91	48.94	38.09	37.21	36.87	14
15	38.31	37.34	41.84	36.79	44.29	44.44	41.03	45.57	50.64	37.87	37.17	37.39	15
16	37.54	37.81	41.85	36.78	43.95	44.27	40.45	45.60	50.97	37.66	37.10	37.33	16
17	37.65	37.90	41.87	36.74	43.86	44.70	40.21	45.66	51.10	37.73	37.43	36.94	17
18	37.37	37.93	41.86	36.73	43.83	44.23	39.82	45.77	50.88	38.03	37.64	37.22	18
19	37.20	37.99	41.84	36.72	43.83	43.98	39.50	45.88	49.90	37.92	38.26	36.87	19
20	37.24	37.69	41.83	36.72	43.85	43.94	39.46	46.21	45.54	38.07	38.24	37.66	20
21	37.32	37.21	41.16	36.70	43.84	43.94	39.52	46.69	42.26	38.03	38.11	37.74	21
22	37.28	37.13	39.30	36.71	43.82	44.35	39.27	46.47	41.02	37.76	37.88	37.71	22
23	37.23	37.18	38.75	36.69	43.81	45.00	39.26	46.15	40.35	37.63	37.64	37.22	23
24	37.69	38.32	38.55	36.68	43.82	44.29	39.34	46.03	40.12	37.52	37.67	37.19	24
25	38.28	39.03	38.24	36.67	44.15	44.26	39.55	46.12	39.41	37.34	37.20	37.25	25
26	38.85	39.56	37.64	36.66	43.72	44.44	39.67	46.05	39.08	37.48	37.09	37.10	26
27	38.61	40.48	37.39	36.63	41.91	44.04	39.61	46.22	39.07	37.43	37.43	37.24	27
28	38.46	40.70	37.29	36.64	41.44	43.86	39.56	46.35	38.99	37.51	37.52	37.00	28
29	38.43	40.81	37.21	35.83		43.97	39.41	46.44	39.00	37.52	37.44	37.13	29
30	38.28	40.88	37.14	36.62		44.40	39.10	46.61	39.06	37.63	37.25	37.21	30
31	37.86		37.08	36.58		43.80		47.08		37.28	37.74		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
6-03-75	2230	55.37									

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
1975	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	29.32	28.78	31.78	28.01	27.18	32.08	33.79	29.99	39.58	29.75	28.77	29.13	1
2	29.15	28.62	31.86	27.96	27.13	32.02	33.24	29.54	41.79	29.54	28.73	28.72	2
3	28.98	28.38	32.24	27.92	27.09	31.89	32.71	30.69	43.68	29.56	28.35	28.35	3
4	28.91	28.23	32.72	27.88	27.18	31.21	32.27	34.44	44.76	30.20	28.50	28.44	4
5	29.07	28.15	32.57	27.87	28.65	30.58	31.87	35.78	43.49	29.93	28.57	28.24	5
6	28.80	28.12	32.43	27.83	32.58	30.23	31.78	36.23	43.62	30.47	28.30	28.31	6
7	28.69	28.27	32.60	27.73	33.56	29.91	32.01	36.80	44.14	30.30	28.39	28.70	7
8	28.75	28.41	32.63	27.59	33.76	30.08	32.67	36.99	44.26	30.52	28.58	29.14	8
9	28.63	28.31	32.63	27.59	33.62	29.97	33.46	37.05	44.31	31.36	28.76	29.05	9
10	28.74	28.00	32.61	27.64	34.18	31.26	33.60	36.42	44.10	30.79	28.81	28.60	10
11	28.81	27.90	32.61	27.58	34.41	31.65	33.43	35.30	43.08	29.82	28.73	28.54	11
12	29.00	27.86	32.59	27.55	34.31	32.55	33.25	35.16	40.08	29.52	28.52	28.48	12
13	29.30	27.84	32.62	27.52	34.37	33.85	33.22	35.49	36.71	29.64	28.61	28.18	13
14	29.50	27.82	32.67	27.50	35.15	34.85	33.01	36.42	38.59	29.33	28.28	28.07	14
15	29.54	27.98	32.64	27.48	34.90	35.10	32.26	36.18	40.31	29.17	28.41	28.44	15
16	28.92	28.53	32.62	27.47	34.51	34.86	31.63	36.23	40.72	29.09	28.43	28.57	16
17	28.70	28.70	32.65	27.43	34.41	35.38	31.33	36.18	40.85	28.98	28.65	28.26	17
18	28.42	28.75	32.63	27.41	34.38	34.90	31.02	36.33	40.69	29.23	28.96	28.21	18
19	28.17	28.80	32.61	27.39	34.36	34.73	30.63	36.35	39.97	29.09	29.27	28.44	19
20	28.12	28.65	32.61	27.40	34.38	34.70	30.54	36.60	36.56	29.26	29.51	28.77	20
21	28.19	28.09	32.23	27.37	34.38	34.70	30.68	37.05	33.37	29.31	29.39	28.85	21
22	28.17	27.94	30.50	27.36	34.36	34.95	30.51	36.88	32.25	29.05	29.27	28.96	22
23	28.08	27.89	29.74	27.35	34.35	35.67	30.45	36.57	31.57	28.94	28.87	28.70	23
24	28.11	28.74	29.49	27.33	34.36	35.08	30.59	36.44	31.28	28.81	29.03	28.50	24
25	28.82	29.76	29.35	27.33	34.57	34.99	30.67	36.56	30.65	28.66	28.67	28.54	25
26	29.63	30.12	28.99	27.31	34.50	35.14	30.81	36.48	30.23	28.58	28.22	28.23	26
27	29.54	31.12	28.55	27.30	32.88	34.83	30.93	36.55	30.10	28.81	28.65	28.43	27
28	29.38	31.45	28.34	27.27	32.24	34.56	30.71	36.73	30.11	28.94	28.81	28.23	28
29	29.34	31.61	28.23	27.29		34.56	30.50	36.71	30.16	28.84	28.69	28.46	29
30	29.21	31.70	28.15	27.27		35.11	30.32	36.86	30.08	28.83	28.49	28.47	30
31	28.86		28.08	27.24		34.74		37.15		28.79	28.81		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
6-04-75	1015	44.93									

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
1975	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	13.67	14.71	13.77	13.34	14.14	13.74	16.38	12.11	14.98	11.67	10.65	11.31	1
2	13.74	14.83	13.93	13.21	14.09	13.66	15.79	11.92	15.85	11.59	10.59	11.12	2
3	13.44	15.14	14.16	12.44	13.03	13.76	15.07	11.88	16.49	11.49	10.59	11.10	3
4	13.25	15.24	14.64	13.45	13.36	13.46	14.42	12.86	17.20	11.59	10.67	11.00	4
5	13.16	15.18	14.57	13.70	14.67	13.66	14.05	13.55	17.39	11.63	10.62	11.26	5
6	12.90	14.58	14.62	13.30	15.94	13.85	13.93	13.58	16.99	11.73	10.50	11.60	6
7	12.74	13.78	14.90	12.53	16.75	14.24	14.10	13.83	17.22	11.71	10.58	11.95	7
8	12.71	13.58	14.96	13.56	17.06	14.63	14.28	14.00	17.38	11.53	10.64	12.12	8
9	12.65	13.57	14.92	13.65	17.03	14.86	14.88	13.94	17.65	11.68	10.69	12.06	9
10	12.46	13.55	14.82	13.75	16.74	15.00	15.11	13.89	17.83	11.62	10.72	11.89	10
11	12.25	13.50	14.77	13.87	16.81	15.07	15.10	13.56	17.75	11.27	10.82	12.08	11
12	12.58	13.49	14.75	13.88	16.98	15.61	14.96	13.44	17.34	11.17	10.76	12.20	12
13	12.80	13.50	14.72	13.34	16.95	15.79	14.74	13.30	16.10	11.16	10.63	12.46	13
14	12.80	13.53	14.71	12.56	17.56	15.73	14.54	13.58	16.17	11.08	10.55	12.50	14
15	12.68	13.47	14.72	13.52	18.40	16.31	14.20	13.75	17.07	10.98	10.48	12.49	15
16	12.36	13.51	14.72	13.84	18.28	16.26	13.79	13.90	17.53	10.96	10.49	12.64	16
17	12.78	13.57	14.61	13.95	17.71	16.20	13.33	14.02	17.62	11.09	10.70	12.50	17
18	13.02	13.57	14.20	14.00	17.01	16.35	13.17	14.20	17.78	11.12	11.27	12.45	18
19	12.93	13.57	13.96	13.90	16.64	16.05	13.02	14.31	17.59	11.24	11.85	12.48	19
20	12.82	13.56	13.82	13.37	16.76	16.30	13.05	14.32	16.59	11.26	12.06	12.67	20
21	12.85	13.35	13.75	12.61	16.55	16.53	13.13	14.54	14.51	11.23	11.89	12.72	21
22	12.93	13.24	13.46	13.74	16.27	16.56	12.99	14.64	13.55	11.02	11.78	12.72	22
23	13.45	13.18	12.79	14.07	15.99	16.96	12.83	14.54	13.14	10.76	11.77	12.68	23
24	14.07	13.18	12.46	14.20	15.41	16.94	12.72	14.45	12.82	10.78	11.73	12.76	24
25	14.35	13.38	12.73	14.19	15.03	16.48	12.61	14.51	12.62	11.02	11.57	12.82	25
26	14.56	13.48	12.94	13.97	15.47	16.84	12.62	14.57	12.32	10.79	11.11	13.02	26
27	14.57	13.64	12.49	13.30	15.00	16.91	12.69	14.53	12.17	10.88	11.02	13.07	27
28	14.52	13.74	13.32	12.62	14.20	16.67	12.71	14.58	12.11	10.79	11.03	13.06	28
29	14.62	13.74	13.53	13.68		16.57	12.51	14.57	12.07	10.69	10.92	13.02	29
30	14.77	13.67	13.21	13.98		16.74	12.28	14.62	12.04	10.71	10.88	12.93	30
31	14.82		12.53	14.11		16.83		14.70		10.75	11.06		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
2-15	1845	18.60									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B &M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 40 34	121 15 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, 2.4 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 Water Year Total	247300 1292000	24730 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 gage ht.	3850E 9.98	4170E 10.07
			Maximum Discharge of record — flow gage ht.	3850E 9.98	4170E 10.07
B-98	8 (12.00-13.75)	Table B-87 Tranquillity Irrigation District	Diversions — Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	204 1777 4066 557 6306 1414 14324	204 52 2005 4112 383 2291 7200 7454 6659 1414 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 gage ht.	3850E 9.98	4170E 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 gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
82		Table B-5 Orestimba Creek near Crows Landing	Daily Mean Discharge Jan. 8 9 10 11 12 13 14 15 16 17	 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	 B NR A NR C NR K NR W NR A NR T NR E NR R NR 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 gage ht. date	4166E 9.97 1-7-65	4170E 10.07 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 Month 1966 Water Year	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 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 Month 1969 Water Year	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 Discharge 1969 Water Year	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 121

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 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 No. 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
		Sacramento-San Joaquin Water Supervisor			
110		Bulletin No. 23-55 for 1955	Daily Mean Discharge Dec 23	22800	19800
		Table 158 Stanislaus River at Riverbank	Dec 24	56600	48300
			Monthly Mean Discharge Dec	4853	4489
			Monthly Acre-feet Dec	298400	276000
			Total Acre-feet Year	513424	491024
			Maximum Discharge CFS	85800	61800
		Bulletin No. 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley			
96		Table B-4 Stanislaus River at Riverbank	Monthly Acre-feet Jan	93670	68470
				97420	91350

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, 1974, through September 30, 1975. 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

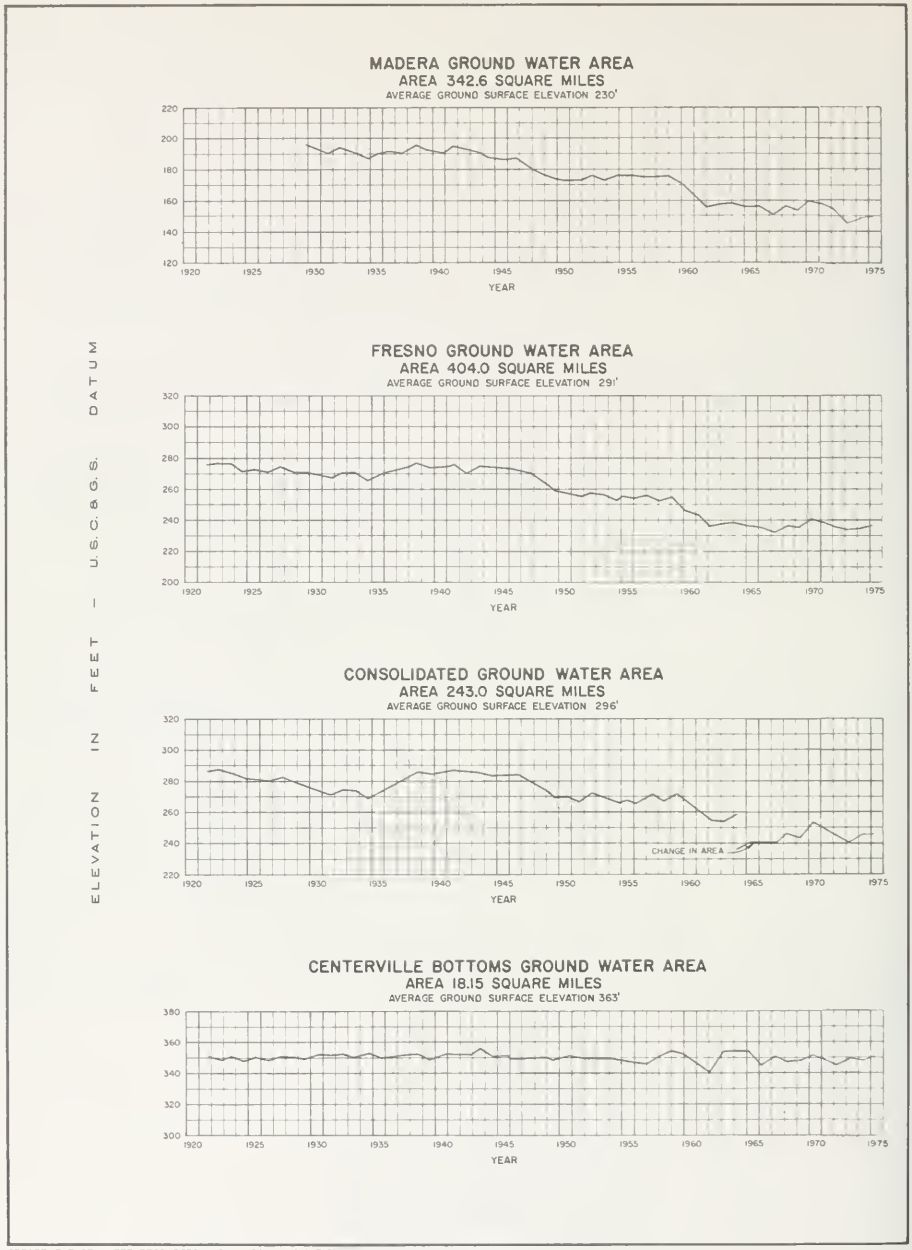
Base and Meridian (M) Mount Diablo (S) San Bernardino

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

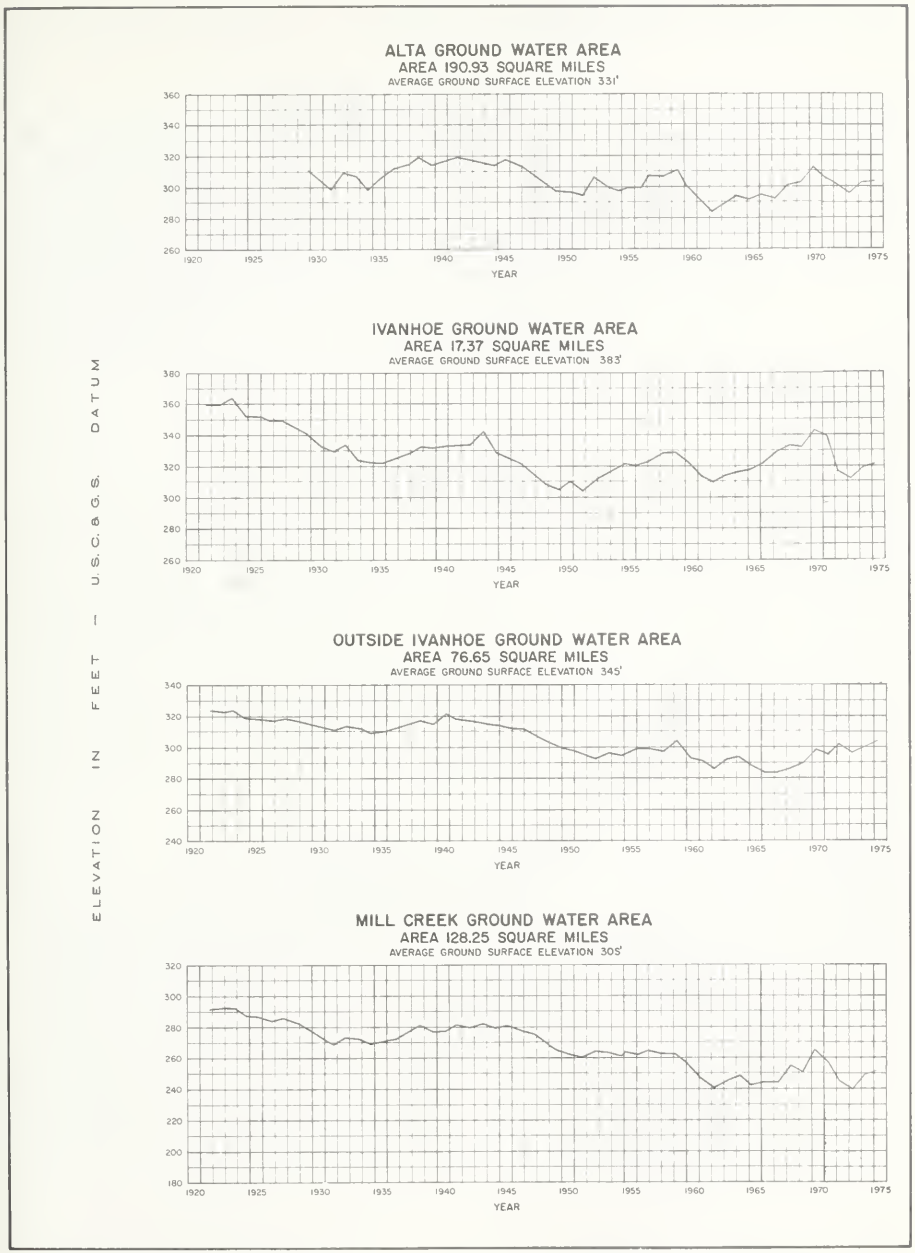
Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

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



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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

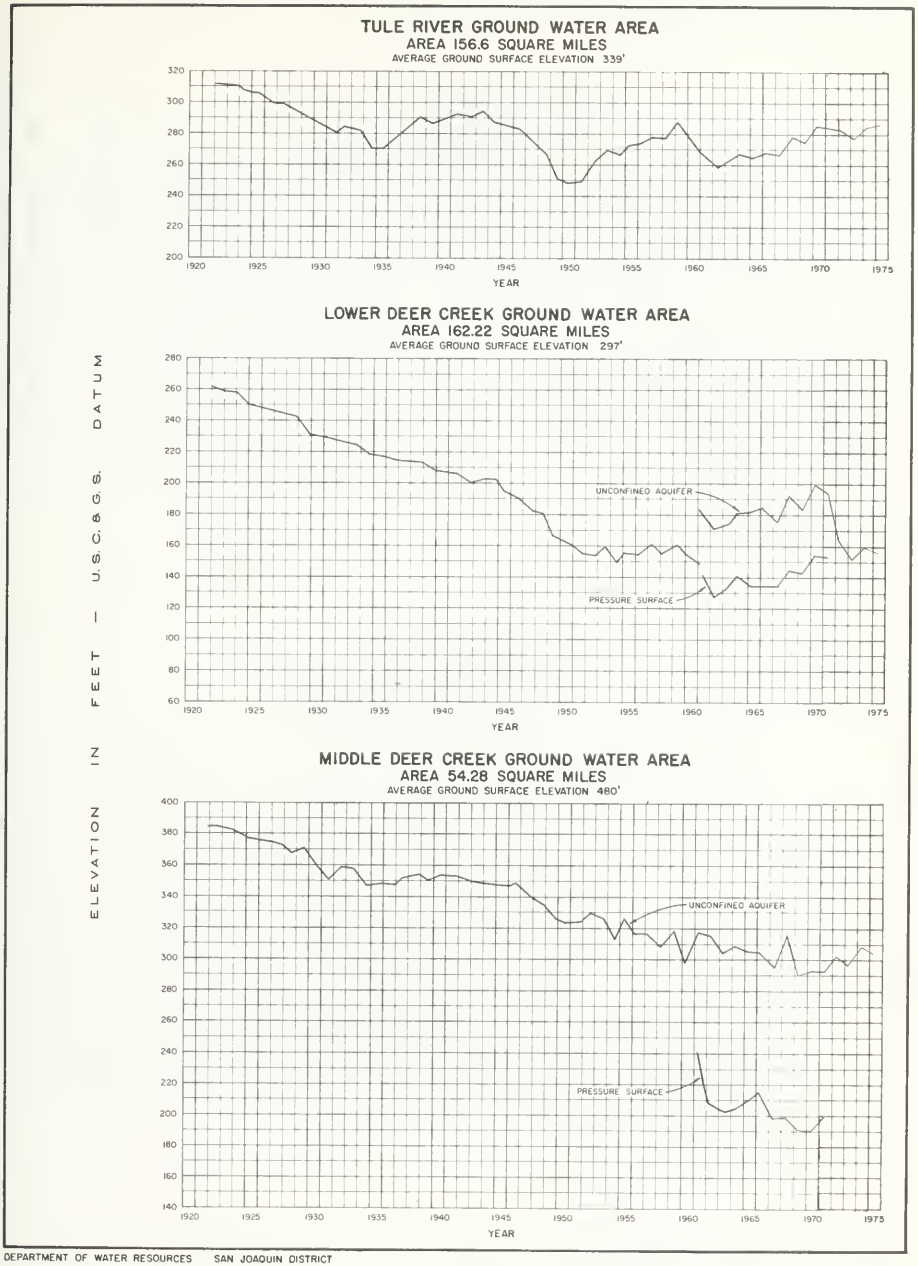


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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

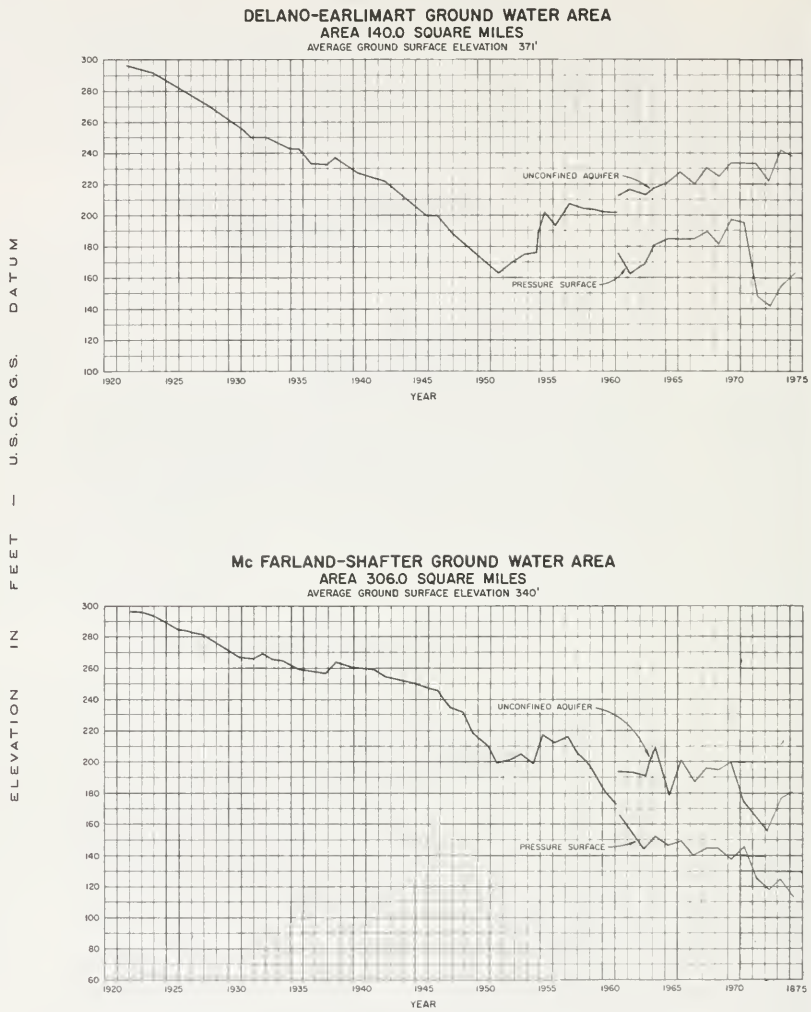
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



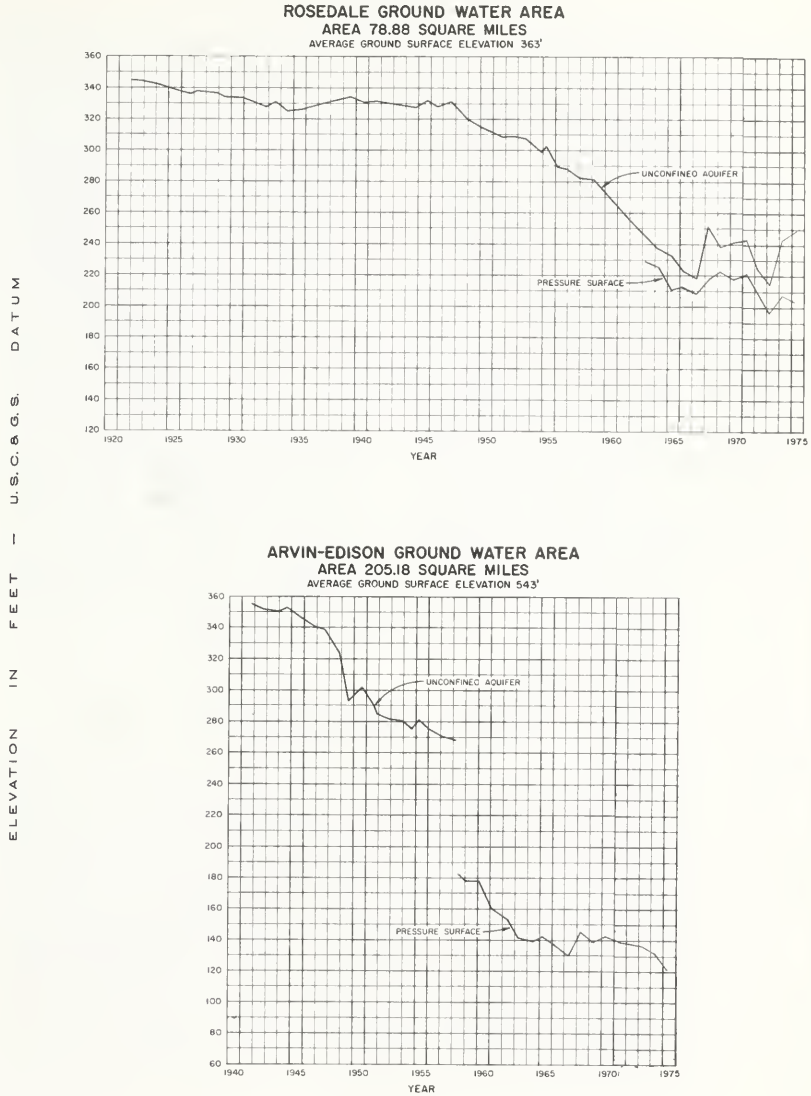
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



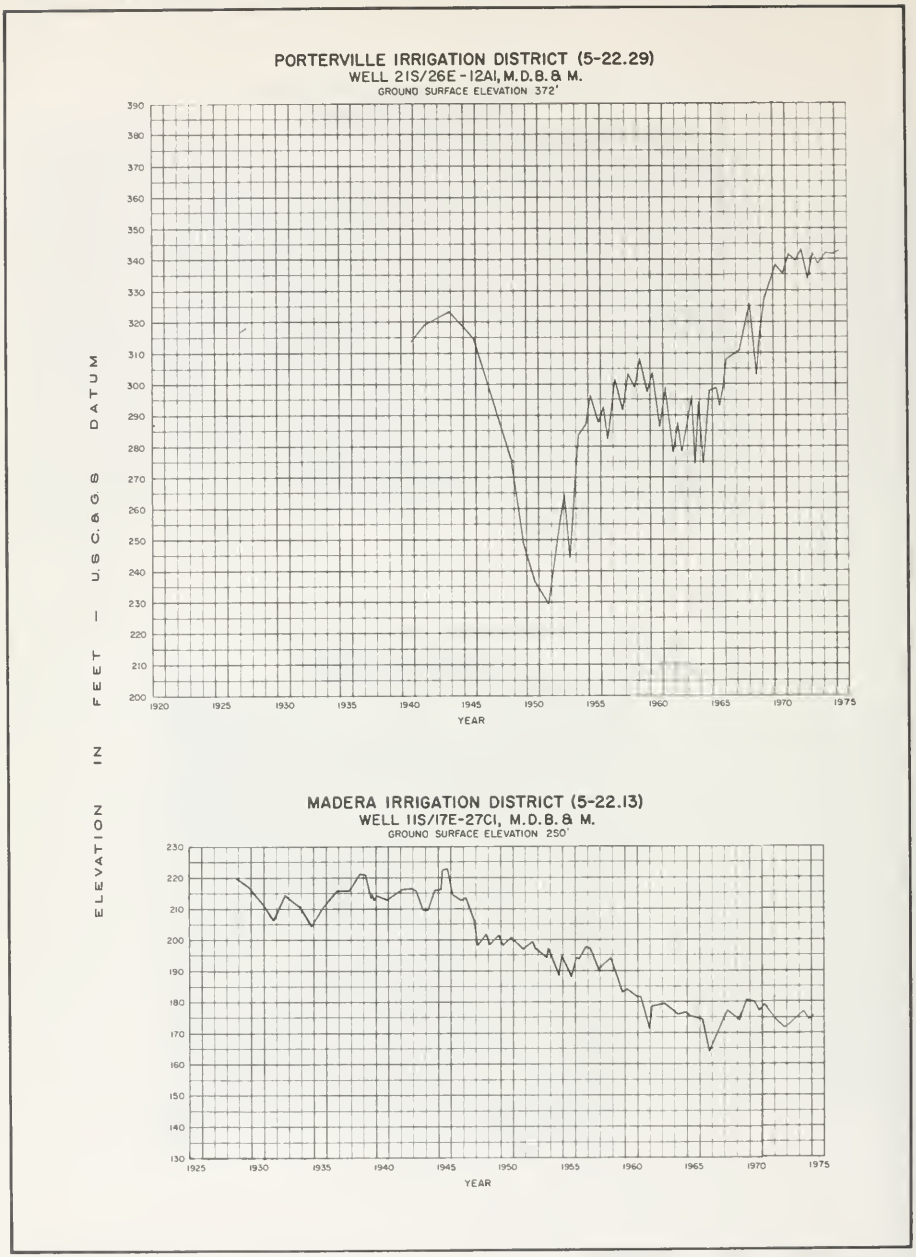
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



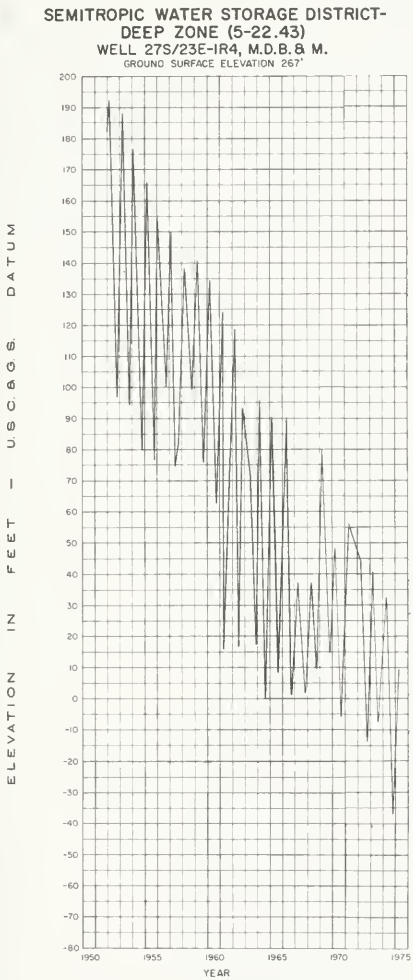
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

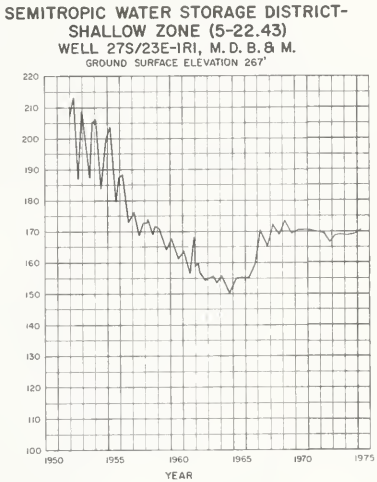
Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

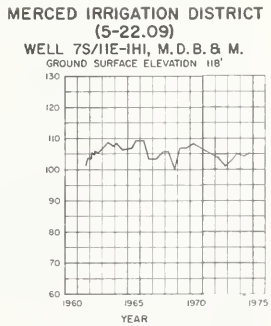


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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

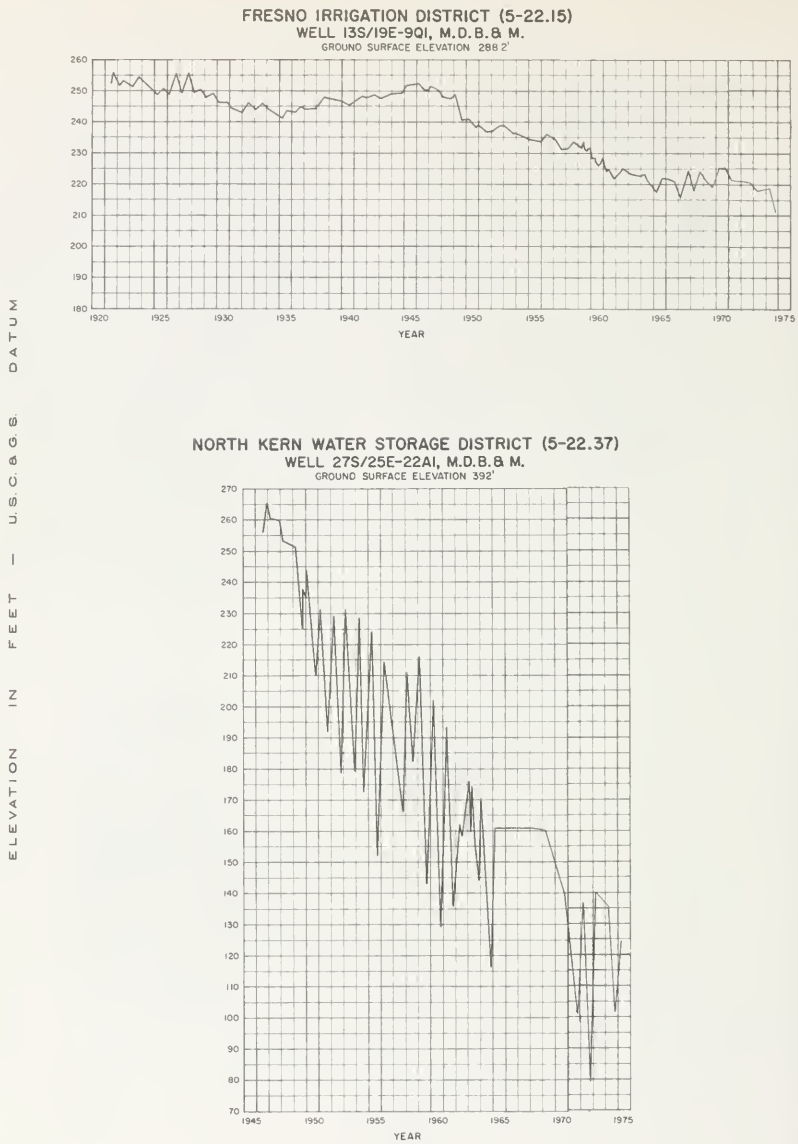






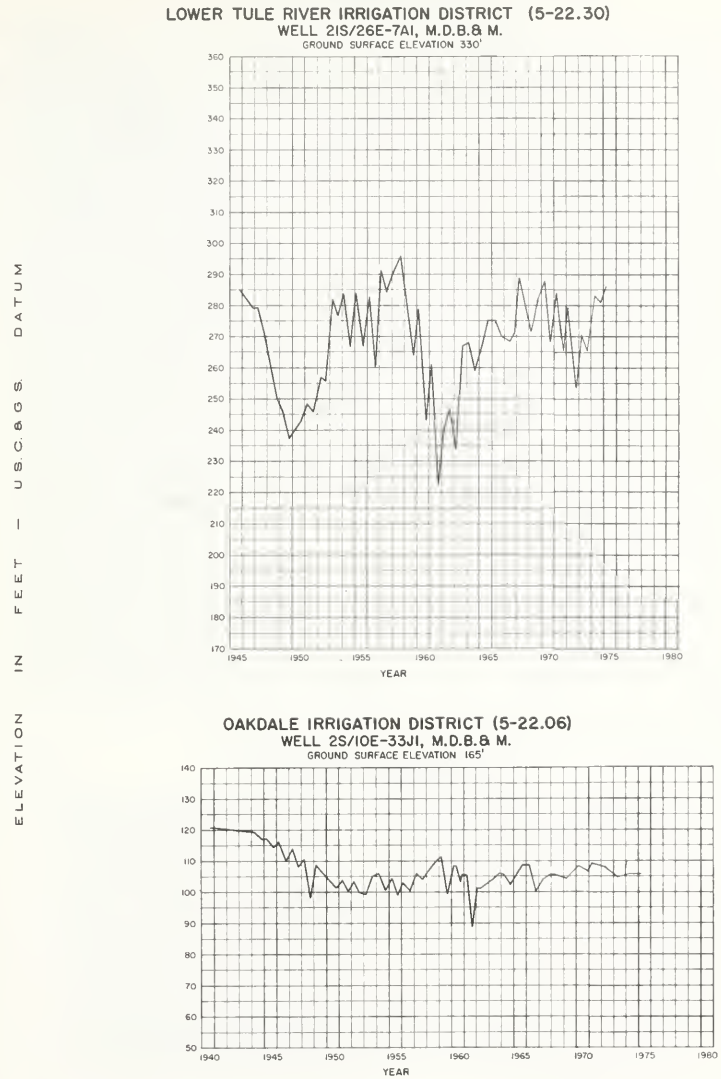
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



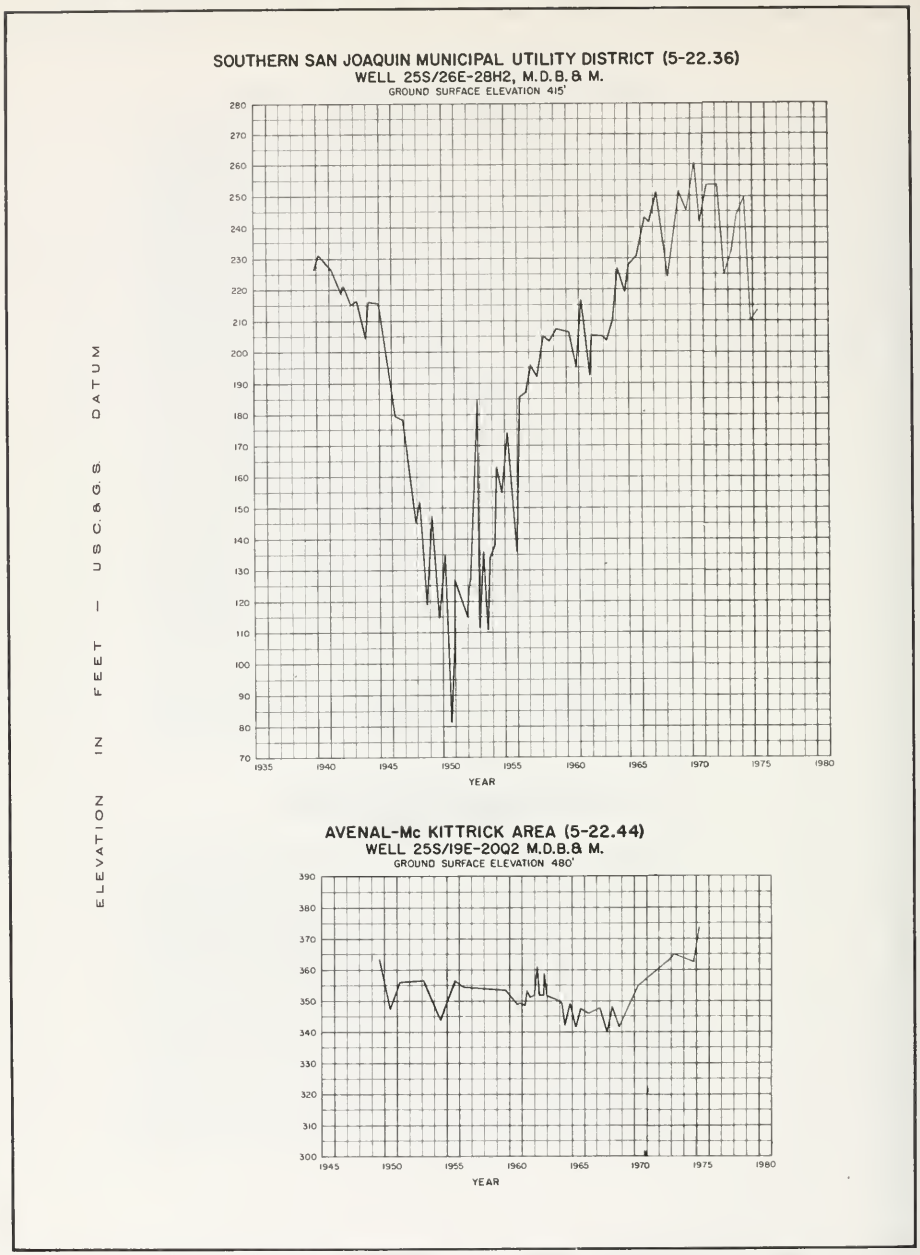
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



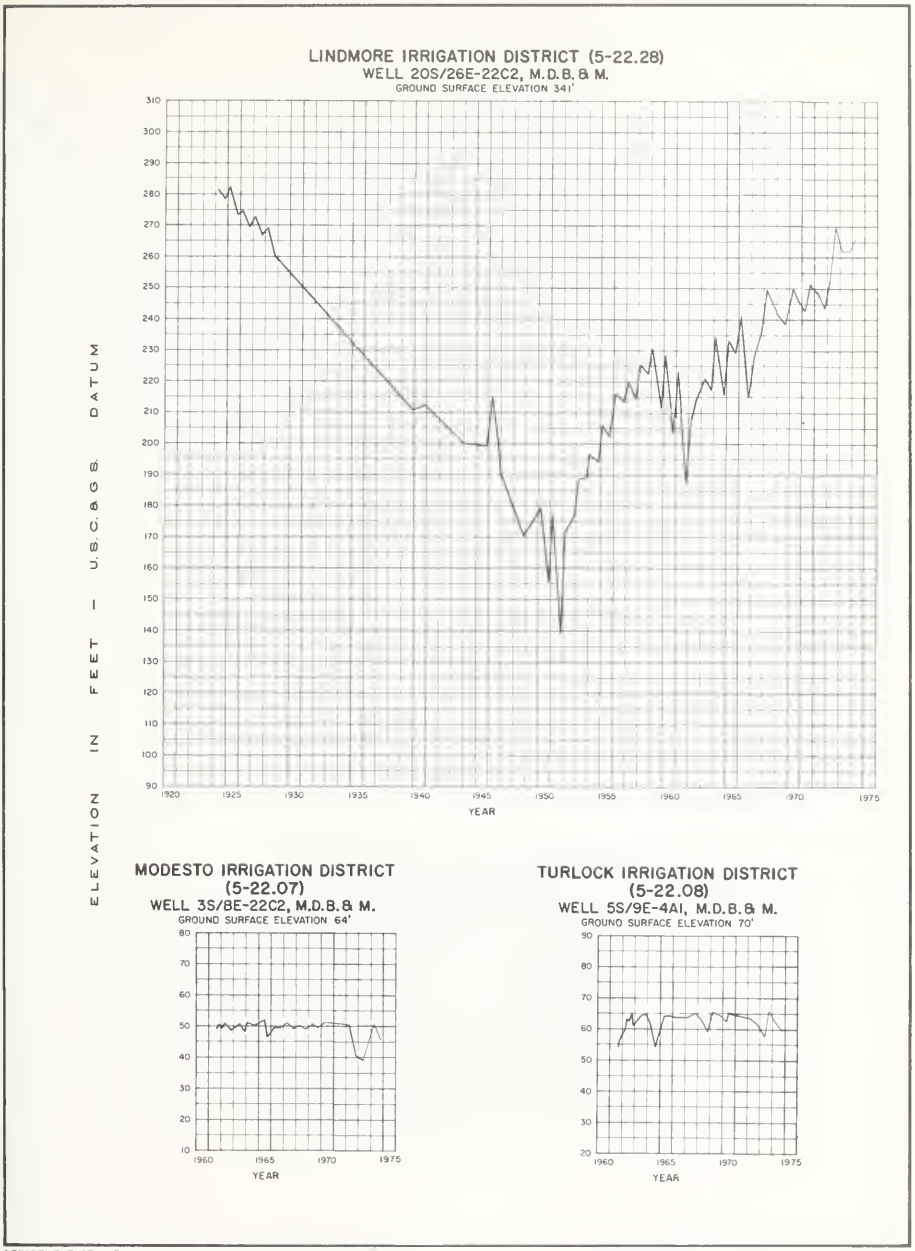
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



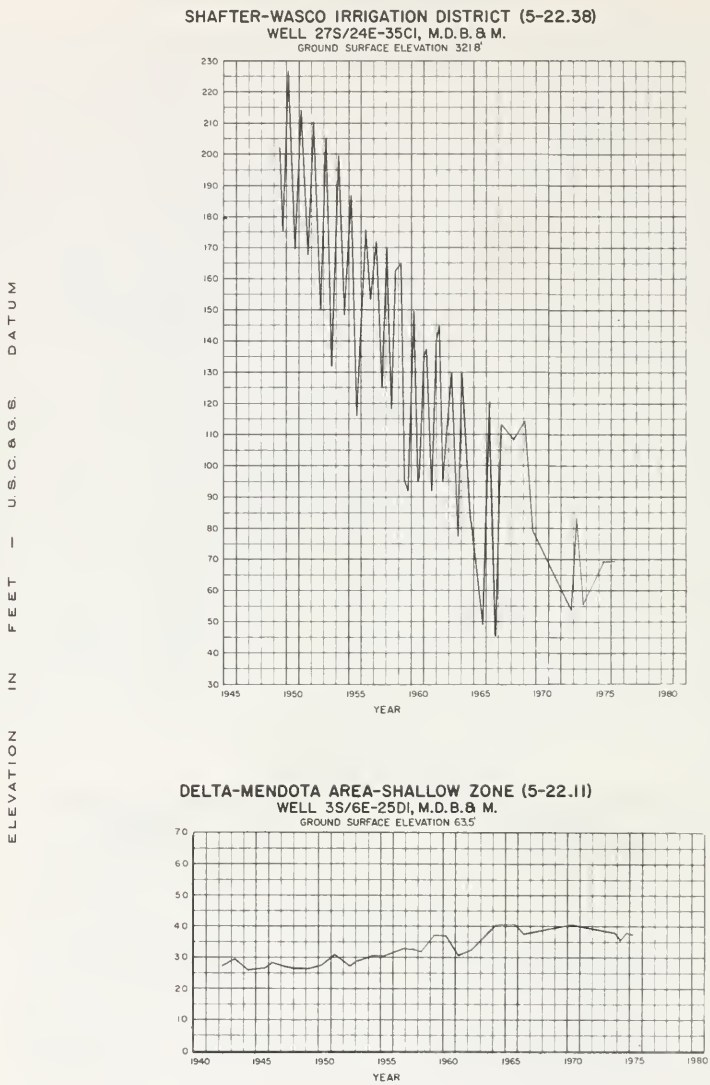
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



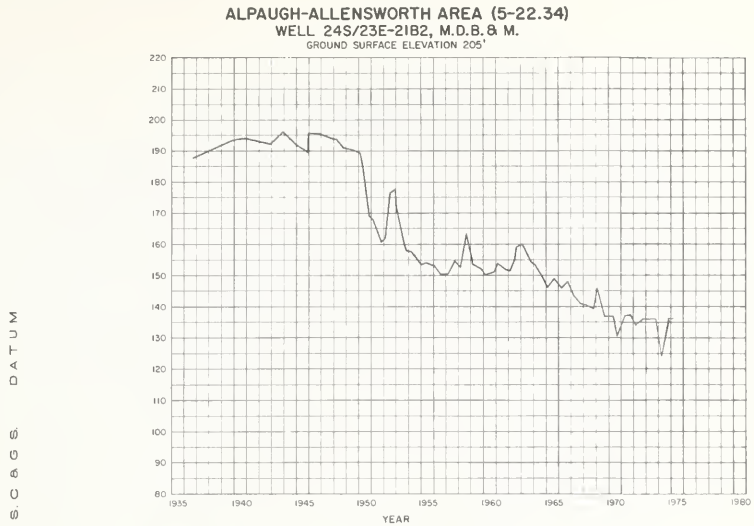
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

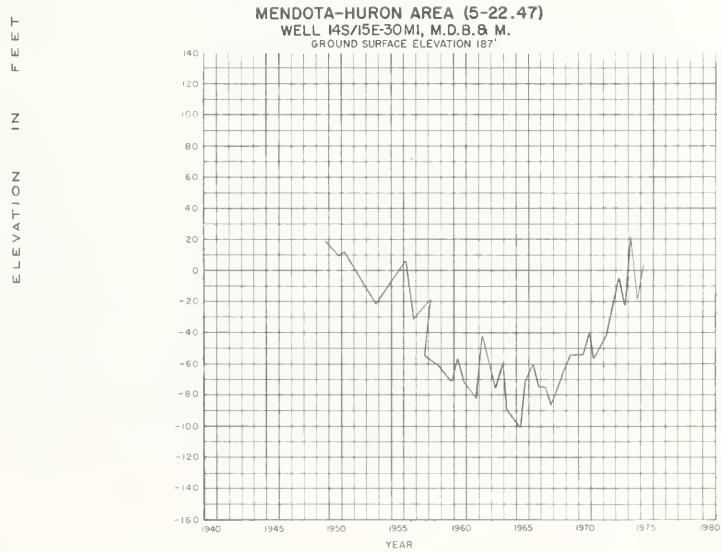
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



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

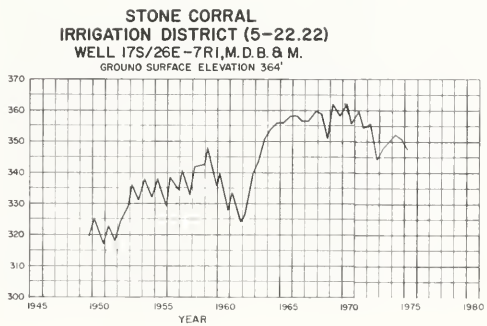
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

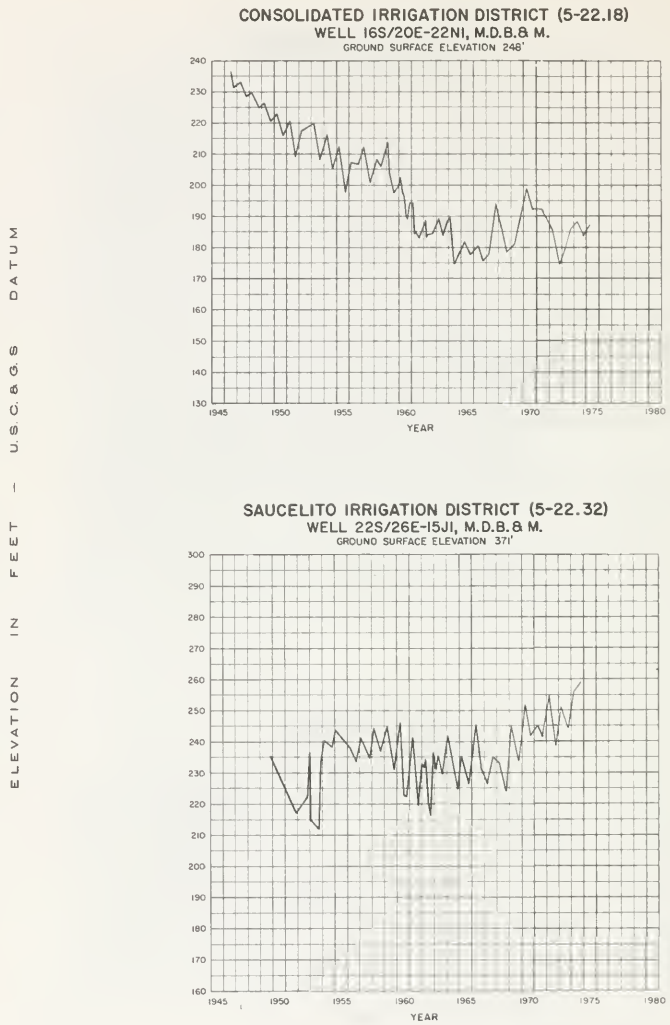
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET — USC&GS DATUM



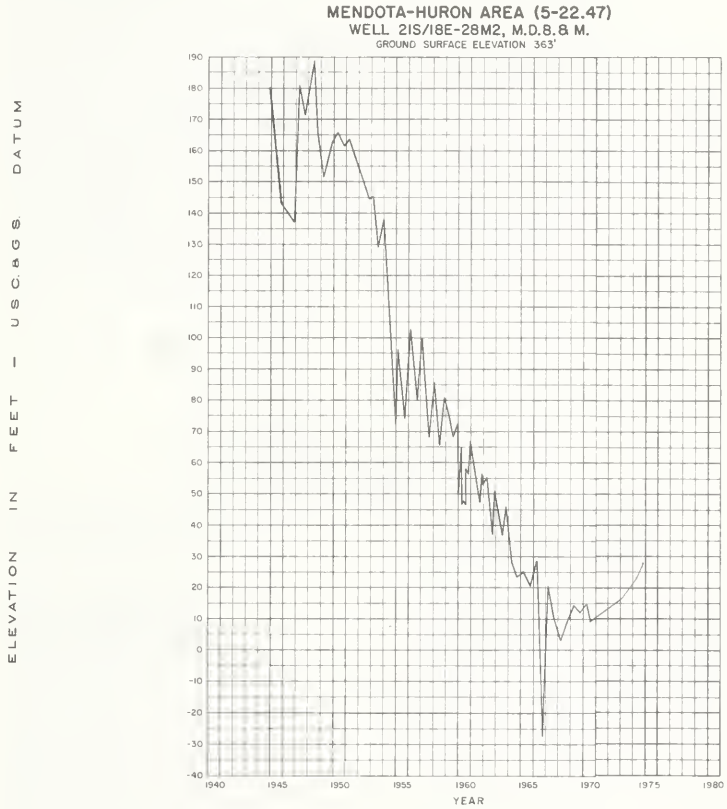
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



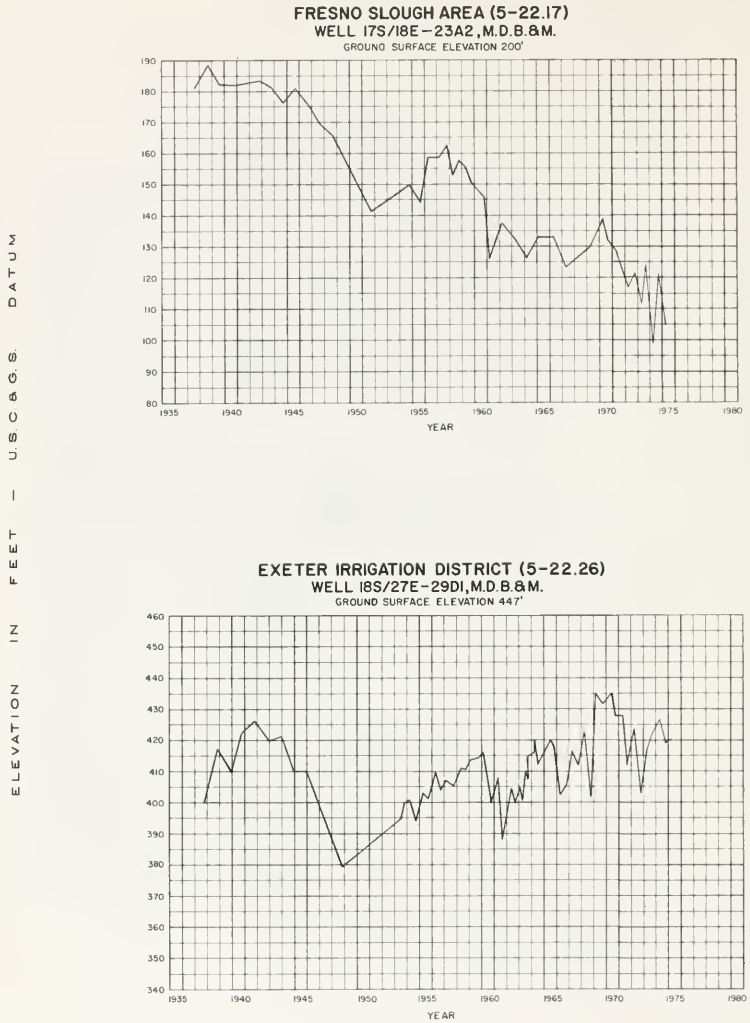
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



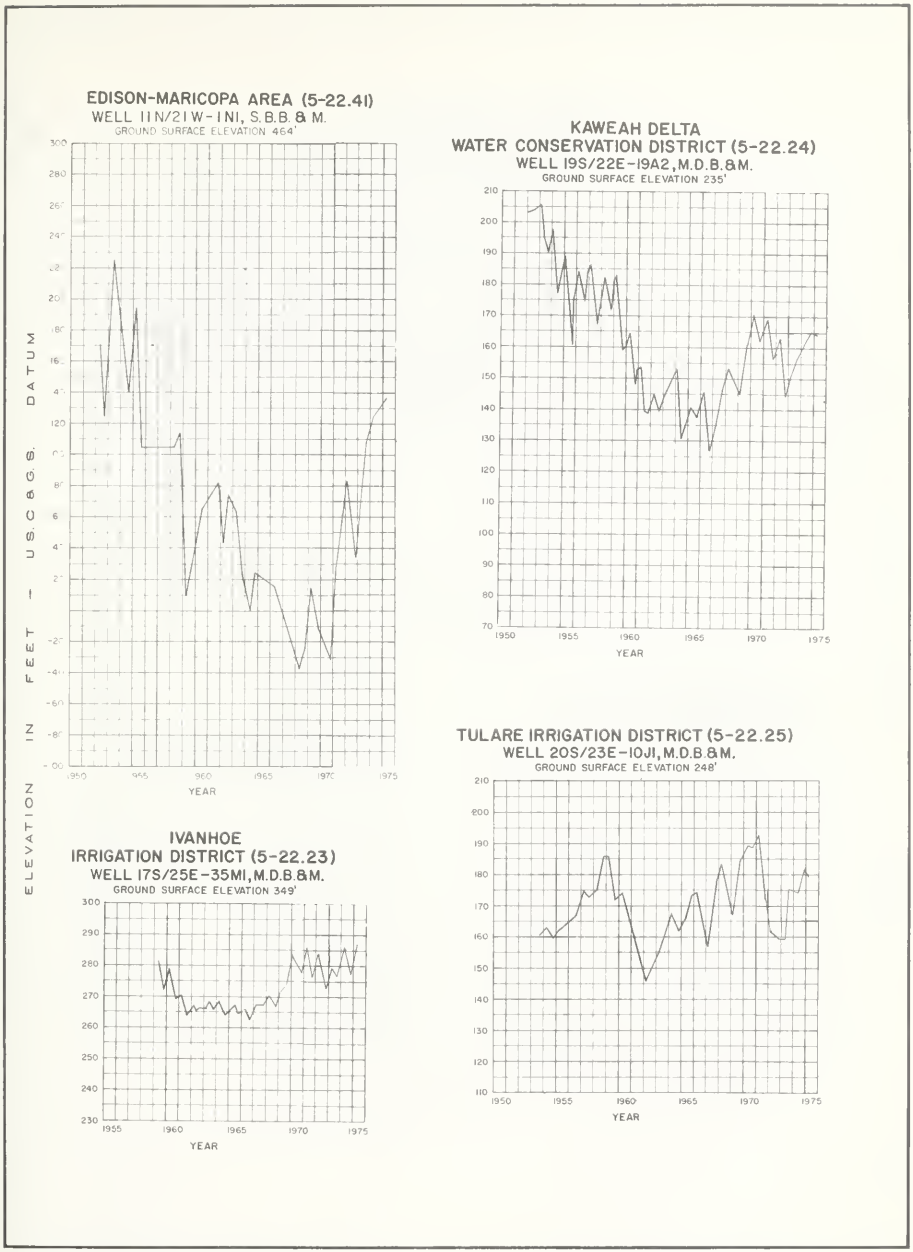
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



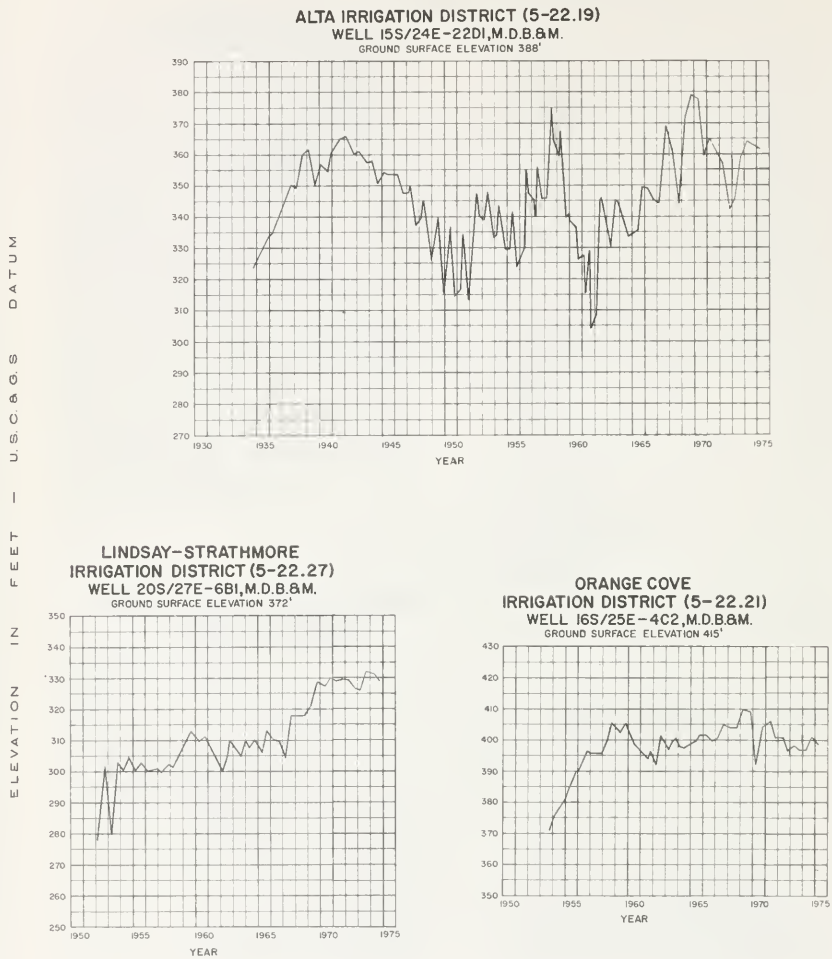
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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



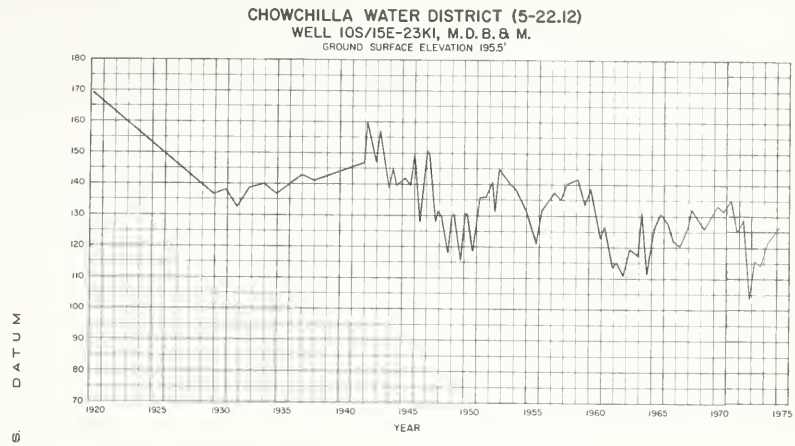
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

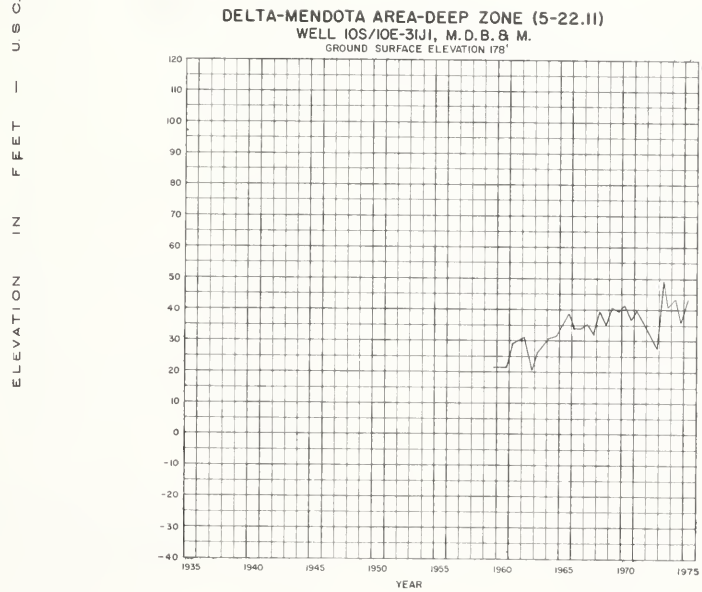
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

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





ELEVATION IN FEET — U.S.C.&G.S. DATUM

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 1974 - Spring 1975

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		- 1.9
Modesto Irrigation District	5-22.07		+ 0.3
Turlock Irrigation District	5-22.08		+ 1.0
Merced Irrigation District	5-22.09		- 0.6
El Nido Irrigation District	5-22.10		- 0.6
Delta-Mendota Area	5-22.11	250	+ 1.2
Chowchilla Water District	5-22.12		+ 1.1
Madera Irrigation District	5-22.13		+ 0.6
West Chowchilla-Madera Area	5-22.14		- 4.4
Fresno Irrigation District	5-22.15		- 0.9
City of Fresno	5-22.16	60	- 0.4
Fresno Slough Area	5-22.17		- 0.3
Consolidated Irrigation District	5-22.18		+ 1.6
Alta Irrigation District	5-22.19		+ 3.6
Lower Kings River Area	5-22.20		
Shallow Zone			0.0
Deep Zone			+ 5.6
Orange Cove Irrigation District	5-22.21	62	- 1.7
Stone Corral Irrigation District	5-22.22	10	- 2.2
Ivanhoe Irrigation District	5-22.23		- 0.5
Kaweah-Delta Water Conservation District	5-22.24		+ 1.9
Tulare Irrigation District	5-22.25		+ 3.2
Exeter Irrigation District	5-22.26		- 1.4
Lindsay-Strathmore Irrigation District	5-22.27		- 3.7
Lindmore Irrigation District	5-22.28		+ 0.8
Porterville Irrigation District	5-22.29	16	- 1.4
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			+ 1.7
Deep Zone		Insufficient data to compute change	
Vandalia Irrigation District	5-22.31	5	- 0.2
Saucelito Irrigation District	5-22.32		
Shallow Zone			+ 0.2
Deep Zone		Insufficient data to compute change	
Pixley Irrigation District	5-22.33		
Shallow Zone			- 5.1
Deep Zone			- 0.1

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1974 - Spring 1975

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			- 5.8
Deep Zone			+ 0.5
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			+ 0.9
Deep Zone		Insufficient data to compute change	
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			+ 8.7
Deep Zone			- 1.9
North Kern Water Storage District	5-22.37		
Shallow Zone			+ 4.1
Deep Zone			-12.6
Shafter-Wasco Irrigation District	5-22.38		
Deep Zone			- 5.7
City of Bakersfield	5-22.39	20	- 2.1
Kern River Delta Area	5-22.40		
Shallow Zone			+ 0.4
Deep Zone			- 3.4
Edison-Maricopa Area	5-22.41		
Deep Zone			- 0.4
Buena Vista Water Storage District	5-22.42		
North Area			-10.3
South Area		Insufficient data to compute change	
Semitropic Water Storage District	5-22.43		
Shallow Zone			- 2.7
Deep Zone			-10.3
Avenal-McKittrick Area	5-22.44	27	- 1.2
Tulare Lake-Lost Hills Area	5-22.45	19	+ 2.8
Corcoran Irrigation District	5-22.46		
Shallow Zone			+ 1.6
Deep Zone			+ 5.8
Mendota-Huron Area	5-22.47		
Deep Zone			+17.8
Poso Resources Conservation District	5-22.48		+ 0.3
San Luis Canal Company	5-22.49		- 0.3

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1974 -- Spring 1975

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	10	+ 0.1
Merced Bottoms	5-22.54		+ 1.1
Centerville Bottoms Area	5-22.64		- 1.9
Garfield Water District	5-22.65	11	+ 0.2
Kings County Water District	5-22.66		
Shallow Zone			+ 0.8
Deep Zone		Insufficient data to compute change	
Pleasant Valley Area	5-22.69	18	+ 8.3

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 1975
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 1951-75 b/ in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1 c/	-22.3
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	-16.8
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 3.8
Centerville Bottoms	18.1	-----	+ 1.0	- 0.1
Alta	190.9	Alta Irrigation District	- 17.2 c/	+ 9.1
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+18.2
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	+ 9.1
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	-10.1
Tulare	121.1	Tulare Irrigation District	- 59.1	+ 9.4
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 5.0
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+82.7
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+42.6
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	-27.3 e/ -10.2 f/
Middle Deer Creek	54.3	Terra Bella Irrigation District	- 61.8	- 3.4 e/ -40.6 f/
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+28.0 e/ +32.3 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	-12.3 e/ -54.1 g/
Rosedale	78.9	-----	- 36.3	-46.2 -25.7 g/
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9 d/	-49.7 g/

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.
b/ Fall 1951 to spring 1975.
c/ Fall 1929 to fall 1951.
d/ Fall 1941 to fall 1951.
e/ Unconfined aquifer, spring 1961 to spring 1975; only one aquifer reported prior to 1961.
f/ Change shown for 1951 to 1971; insufficient data in pressure aquifer to compute changes for 1971-75.
g/ Pressure surface, spring 1961 to spring 1975; 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 125.

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.	4	Unconfined, outside Corcoran Clay area.
1	Unconfined, perforated above the Corcoran Clay.	5	Confined, aquitard other than Corcoran Clay.
2	Confined, perforated below the Corcoran Clay.	6	Composite, perforated above and below aquitard outside Corcoran Clay area.
3	Composite, perforated above and below the Corcoran Clay.		

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
5001	U. S. Bureau of Reclamation	5605	Exeter Irrigation District
5050	Department of Water Resources	5606	Lindsay-Strathmore Irrigation District
5129	Kings County Water District	5607	Lindmore Irrigation District
5133	Kern County Water Agency	5608	Porterville Irrigation District
5200	City of Fresno	5609	Lower Tule Irrigation District
5520	Oakdale Irrigation District	5611	Saucelito Irrigation District
5521	Modesto Irrigation District	5612	Pixley Irrigation District
5524	Turlock Irrigation District	5613	Delano-Earlimart Irrigation District
5525	Merced Irrigation District	5614	Southern San Joaquin Municipal Utility District
5527	El Nido Irrigation District		
5528	Chowchilla Water District	5616	Shafter-Wasco Irrigation District
5529	Poso Resources Conservation District	5619	Terra Bella Irrigation District
5530	Madera Irrigation District	5620	James Irrigation District
5531	San Luis Canal Company	5622	Garfield Water District
5600	Orange Cove Irrigation District	5631	Fresno Irrigation District
5601	Stone Corral Irrigation District	5636	Consolidated Irrigation District
5602	Ivanhoe Irrigation District	5637	Alta Irrigation District
5603	Kaweah Delta Water Conservation District	5640	Buena Vista Water Storage District
5604	Tulare Irrigation District	5644	Arvin-Edison Water Storage District

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

STATE WELL NUMBER	AQUIFER	GROUND WATER 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	4-18-75	65.6	53.4	5520
01S/09E-36A01 M		145.0	4-18-75	55.9	89.1	5520
01S/10E-19L01 M		146.5	4-18-75	57.8	888.7	5520
01S/10E-28J01 M		193.0	4-18-75	84.6	108.4	5520
02S/09E-26F01 M		132.0	4-18-75	54.6	77.4	5520
02S/10E-04H01 M		185.5	4-18-75	78.2	107.3	5520
02S/10E-33J01 M		165.0	4-18-75	59.2	105.8	5520
02S/11E-29B01 M		218.0	4-18-75	90.5	127.5	5520
02S/11E-31N01 M		192.0	4-18-75	77.2	114.8	5520
02S/12E-31K01 M		190.0	4-18-75	41.4	148.6	5520
03S/10E-15A01 M		152.0	4-18-75	44.9	107.1	5520
03S/11E-18D01 M		162.0	4-18-75	NM-1		5520
MODESTO I.D.				5-22.07		
02S/08E-25P01 M		94.0	3-04-75	37.6	56.4	5521
02S/09E-30F01 M		93.0	11-13-74 3-26-75	24.0 28.5	69.0 64.5	5050
02S/09E-31G01 M		97.0	3-04-75	34.2	62.8	5521
03S/07E-12C01 M		47.0	11-13-74 3-26-75	9.8 NM-0	37.2	5050
03S/07E-35A02 M		40.0	11-13-74 3-26-75	4.1 NM-0	35.9	5050
03S/08E-03N01 M		65.0	3-04-75	16.9	48.1	5521
03S/08E-24C02 M		73.0	3-04-75	20.0	53.0	5521
03S/09E-08D01 M		92.0	3-04-75	28.2	63.8	5521
03S/09E-11M01 M		99.0	3-04-75	23.2	75.8	5521
03S/09E-26F01 M		100.0	3-26-75	NM-0		5050
03S/10E-06G01 M		133.1	3-04-75	35.2	97.9	5521
03S/10E-29K01 M		118.0	3-04-75	47.9	70.1	5521
03S/10E-32G01 M		120.0	3-04-75	58.7	61.3	5521
03S/10E-34D01 M		125.0	3-26-75	NM-6		5050
04S/08E-03F01 M		60.0	3-04-75	16.7	43.3	5521
TURLOCK I.D.				5-22.08		
04S/08E-22R01 M	1	55.0	11-13-74 3-26-75	10.0 NM-0	45.0	5050
04S/08E-27D01 M		55.0	3-05-75	10.8	44.2	5524
04S/09E-21N01 M		75.0	3-05-75	9.7	65.3	5524
04S/10E-21R01 M	1	109.0	3-05-75	15.1	93.9	5524
04S/11E-29N01 M	1	131.0	3-05-75	DRY		5524
04S/11E-31R01 M		128.0	3-05-75	12.1	115.9	5524
05S/08E-01N01 M		53.0	3-05-75	5.7	47.3	5524
05S/08E-10A01 M		44.0	3-05-75	12.3	31.7	5524
05S/09E-04A01 M		70.0	11-13-74 3-26-75	10.0 NM-0	60.0	5050
05S/09E-14R01 M		75.0	3-05-75	7.2	67.8	5524
05S/09E-24N01 M		75.0	3-05-75	8.3	66.7	5524
05S/09E-28A01 M		63.0	3-05-75	4.7	58.3	5524
05S/09E-34J01 M		64.0	11-13-74 3-26-75	14.3 NM-0	49.7	5050
05S/10E-19R01 M		82.0	3-05-75	6.7	75.3	5524
05S/10E-21R01 M		92.0	3-05-75	10.7	81.3	5524
05S/11E-06J02 M	1	124.0	11-13-74 3-26-75	7.0 NM-0	117.0	5050
05S/11E-21N01 M		125.0	3-05-75	10.1	114.9	5524
05S/11E-30A01 M		117.0	3-05-75	13.4	103.6	5524
05S/11E-33N01 M		115.5	3-05-75	8.8	106.7	5524
06S/09E-15R01 M		60.0	3-05-75	3.8	56.2	5524

STATE WELL NUMBER	AQUIFER	GROUND WATER 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	3-05-75	3.7	81.9	5524
06S/10E-28D01 M		83.6	3-05-75	10.1	73.5	5524
06S/11E-06N01 M		106.2	3-05-75	9.1	97.1	5524
06S/11E-08R01 M		116.2	3-05-75	11.5	104.7	5524
MERCED I.D.				5-22-09		
06S/12E-22N01 M	1	150.0	11-13-74 3-03-75	19.0 15.3	131.0 134.7	5050 5525
06S/14E-32N01 M	1	178.1	3-04-75	15.1	163.0	5525
07S/10E-01N01 M	1	90.7	3-04-75	7.8	82.9	5525
07S/11E-01H01 M		118.0	11-12-74 2-28-75	13.0 NM-0	105.0	5050
07S/11E-13N01 M	1	106.6	3-03-75	8.7	97.9	5525
07S/12E-12D01 M	1	144.0	11-12-74 3-03-75	1.0 14.1	143.0 129.9	5050 5525
07S/12E-12R01 M	1	147.3	3-03-75	16.9	130.4	5525
07S/13E-26D01 M	1	155.8	11-12-74 3-03-75	11.1 12.1	144.7 143.7	5050 5525
07S/14E-11N01 M	1	191.8	11-12-74 3-04-75	13.4 13.8	178.4 178.0	5050 5525
07S/14E-16R01 M	1	187.3	3-05-75	16.5	170.8	5525
08S/12E-01D01 M	1	120.1	3-03-75	7.9	112.2	5525
08S/13E-09R01 M	1	135.0	3-03-75	5.4	129.6	5525
08S/14E-01A01 M	1	197.5	3-04-75	11.9	185.6	5525
08S/14E-10N01 M	1	172.6	11-12-74 3-03-75	8.1 7.4	164.5 165.2	5050 5525
EL NIDO I.D.				5-22.10		
09S/13E-14H01 M		133.0	10-07-74 2-05-75	NM-7 74.7	58.3	5527
09S/14E-20B01 M		152.0	10-07-74 2-05-75	82.4 66.0	69.6 86.0	5527
DELTA-MENDOTA AREA				5-22.11		
04S/06E-04N01 M	2	196.0	10-18-74 4-07-75	164.3 151.1	31.7 44.9	5607 5001
04S/06E-09R01 M	1	166.3	10-19-74 4-07-75	118.4 115.3	47.9 51.0	5607 5001
04S/07E-27M01 M	1	68.0	10-23-74 4-14-75	22.6 22.9	45.4 45.1	5607 5001
05S/07E-14D01 M	1	130.4	10-22-74 4-08-75	79.1 73.6	51.3 56.8	5607 5001
05S/07E-23L01 M		138.0	10-22-74 4-08-75	82.1 NM-9	55.9	5607 5001
05S/08E-32K01 M	1	90.9	10-22-74 4-08-75	7.4 7.4	83.5 83.5	5607 5001
06S/07E-12P01 M		248.3	10-17-74 3-26-75	13.2 14.5	235.1 233.8	5050
06S/08E-21R02 M	2	133.5	10-17-74 3-26-75	34.0 32.0	99.5 101.5	5050
06S/08E-27J01 M	1	114.5	10-17-74 3-26-75	41.0 46.0	73.5 68.5	5050
06S/08E-29J01 M	2	190.0	3-26-75	93.0	97.0	5050
07S/08E-22L01 M	1	127.9	10-18-74 3-27-75	43.3 45.0	84.6 82.9	5050
07S/09E-04R01 M	1	65.5	10-18-74 3-27-75	17.0 12.0	48.5 53.5	5050
07S/09E-26N01 M	1	68.4	10-16-74 3-28-75	9.2 5.0	59.2 63.4	5050
08S/08E-01N01 M	1	123.2	10-15-74 3-25-75	15.5 18.5	107.7 104.7	5050
08S/08E-15J01 M	2	172.8	3-25-75	25.5	147.3	5050
08S/09E-26H01 M	2	75.0	10-15-74 3-27-75	38.9 14.0	36.1 61.[illegible]	5050
08S/09E-26H03 M	1	75.0	10-15-74 3-27-75	5.5 1.0	69.5 74.0	5050
08S/10E-21L04 M		75.0	10-15-74 3-2 -75	6.4 1.0	68.6 74.0	5050

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

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
DELTA-MENDOTA AREA				5-22.11		
09S/08E-24A01 M	1	157.0	10-17-74	9.0	148.0	5050
			3-25-75	19.0	138.0	
09S/09E-14N01 M		96.0	10-17-74	60.0	36.0	5050
			3-28-75	35.0	61.0	
09S/09E-18N01 M	2	153.6	10-17-74	32.0	121.6	5050
			3-27-75	29.0	124.6	
09S/09E-23L01 M	2	100.0	10-17-74	65.0	35.0	5050
			3-28-74	47.0	53.0	
09S/10E-19B01 M	3	84.0	10-17-74	NM-5		5050
			3-28-75	NM-0		
09S/10E-23J01 M	2	87.0	10-16-74	45.0	42.0	5050
			3-28-75	34.0	53.0	
09S/11E-09A01 M	1	85.0	3-00-75	6.0	79.0	5531
09S/11E-29R01 M	1	90.0	10-16-74	NM-1		5050
			3-26-75	4.0	86.0	
10S/10E-02R01 M	1	99.5	10-16-74	18.0	81.5	5050
			3-26-75	12.0	87.5	
10S/10E-31G01 M	2	191.1	10-16-74	152.0	39.1	5050
			3-26-75	162.0	29.1	
10S/10E-32N01 M	1	189.5	10-16-74	80.0	109.5	5050
			3-26-75	75.0	114.5	
10S/11E-27E02 M	2	101.3	10-16-74	65.0	36.3	5050
			3-27-75	55.0	46.3	
11S/10E-11J01 M	1	157.3	10-15-74	12.0	145.3	5050
			3-25-75	10.0	147.3	
11S/10E-22Q01 M		246.8	10-15-74	98.0	148.8	5050
			3-26-75	100.0	146.8	
11S/11E-02J02 M	1	106.0	10-15-74	2.0	104.0	5050
			3-25-75	2.0	104.0	
11S/11E-22Q01 M	2	114.0	10-15-74	9.5	104.5	5050
			3-25-75	12.0	102.0	
11S/11E-22Q03 M	3	114.0	10-15-74	13.0	101.0	5050
			3-25-75	12.0	102.0	
12S/12E-06D01 M		144.0	10-16-74	6.4	137.6	5607
			3-24-75	5.7	138.3	5001
12S/12E-25J01 M		181.1	10-17-74	5.7	175.4	5607
			3-25-75	3.5	177.6	5001
12S/13E-14N01 M		150.0	10-16-74	23.5	126.5	5607
			3-26-75	22.1	127.9	5001
CHOWCHILLA W.D.				5-22.12		
09S/14E-25R01 M	1	185.0	10-07-74	67.5	117.5	5528
			1-31-75	64.5	120.5	
09S/15E-25J02 M	1	230.0	10-01-74	40.0	190.0	5528
			1-31-75	41.5	188.5	
09S/15E-27A01 M		216.5	11-12-74	119.0	97.5	5050
			3-12-75	NM-0		
09S/16E-22R01 M		267.0	10-03-74	45.5	221.5	5528
			1-30-75	47.0	220.0	
09S/17E-19L01 M	1	292.0	10-03-74	113.5	178.5	5528
			1-30-75	112.5	179.5	
09S/17E-25B01 M	1	338.0	9-27-74	76.2	261.8	5001
			1-21-75	63.9	274.1	
09S/18E-33Q01 M	4	362.0	9-27-74	58.5	303.5	5001
			1-21-75	54.8	307.2	
10S/14E-01A01 M		179.0	10-07-74	75.7	103.3	5528
			1-31-75	75.0	104.0	
10S/14E-01R02 M		177.0	10-07-74	68.5	108.5	5528
			1-31-75	68.0	109.0	
10S/14E-24R01 M		167.0	10-07-74	86.5	80.5	5528
			2-04-75	85.0	82.0	
10S/15E-02Q01 M		212.5	10-02-74	114.0	98.5	5528
			1-31-75	110.5	102.0	
10S/15E-23K01 M		195.5	10-02-74	71.5	124.0	5528
			2-05-75	69.0	126.5	
10S/15E-27D03 M		184.0	10-02-74	79.5	104.5	5528
			2-05-75	72.5	111.5	
10S/16E-09E01 M		232.0	10-10-74	95.0	137.0	5528
			2-04-75	92.9	139.1	
10S/16E-29R01 M	1	208.0	10-02-74	84.0	124.0	5528
			2-05-75	77.5	130.5	
MADERA I.D.				5-22.13		
10S/19E-16D01 M	4	390.0	9-27-74	16.7	373.3	5001
			1-21-75	23.1	366.9	

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
MADERA I.D.				5-22.13		
11S/16E-06A01 M		196.0	10-07-74	77.4	118.6	5530
			2-06-75	66.8	129.2	
11S/16E-10N01 M		204.0	10-07-74	72.0	135.7	5530
			2-06-75	68.3	135.7	
11S/17E-27C01 M	1	250.0	10-04-74	75.4	174.6	5530
			2-05-75	74.7	175.3	
11S/18E-20N01 M	1	272.5	10-01-74	88.2	184.3	5530
			1-30-75	71.4	201.1	
11S/18E-27M01 M	1	284.0	10-01-74	86.3	197.7	5530
			1-30-75	82.5	201.5	
12S/16E-23A01 M		205.0	10-03-74	96.7	108.3	5530
			2-03-75	84.8	120.2	
12S/17E-08G01 M		230.0	10-03-74	90.2	139.8	5530
			2-04-75	83.6	146.4	
12S/17E-21H01 M	1	228.0	10-03-74	72.3	155.7	5530
			2-03-75	69.0	159.0	
12S/17E-26C01 M		235.0	10-03-74	60.6	174.4	5530
			2-03-75	57.2	177.8	
12S/17E-34R01 M		234.0	10-03-74	60.9	173.1	5530
			2-03-75	50.0	184.0	
12S/18E-13R01 M		288.0	10-01-74	82.2	205.8	5530
			1-30-75	80.0	208.0	
12S/18E-21G01 M	1	265.0	10-02-74	74.6	190.4	5530
			1-31-75	71.1	193.9	
12S/18E-21H01 M		267.0	10-02-74	70.3	196.7	5530
			1-31-75	66.9	200.1	
12S/19E-28A01 M	4	307.5	10-09-74	91.2	216.3	5001
			1-27-75	90.5	217.0	
WEST CHOWCHILLA-MADERA AREA				5-22.14		
10S/13E-22R01 M		119.0	9-24-74	26.2	92.8	5001
			1-21-75	24.1	94.9	
10S/14E-08B03 M		147.0	10-08-74	99.5	47.5	5528
			2-06-75	90.5	56.5	
10S/14E-31N01 M		130.0	9-24-74	45.8	84.2	5001
			1-21-75	40.0	90.0	
10S/14E-35F01 M		151.0	10-07-74	93.3	57.7	5001
			1-21-75	79.5	71.5	
11S/14E-13R01 M		150.0	9-25-74	NM-1		5001
			1-21-75	NM-1		
11S/15E-33E01 M		156.0	9-25-74	82.6	73.4	5001
			1-21-75	60.5	95.5	
11S/15E-33P01 M		158.0	9-25-74	80.4	77.6	5001
			1-21-75	57.8	100.2	
12S/15E-14L01 M	1	167.0	9-28-74	NM-7		5001
			1-23-75	67.3	99.7	
13S/16E-02C01 M		194.0	10-02-74	89.5	104.5	5530
			2-03-75	71.3	122.7	
FRESNO I.D.				5-22.15		
12S/20E-14A01 M	4	365.0	9-27-74	NM-9		5001
			2-04-75	92.0	273.0	
12S/21E-34D01 M	4	387.7	10-01-74	44.4	343.3	5631
			2-01-75	42.3	345.4	
12S/22E-21E01 M	4	473.0	9-24-74	15.3	457.7	5001
			1-23-75	15.0	458.0	
13S/17E-22B01 M	4	220.8	10-01-74	34.0	186.8	5631
			2-01-75	37.3	183.5	
13S/17E-33D01 M		211.0	10-10-74	56.0	155.0	5001
			1-23-75	53.1	157.9	
13S/18E-10P01 M		258.0	10-10-74	46.5	211.5	5001
			1-24-75	49.0	209.0	
13S/18E-34D01 M		245.0	10-10-74	56.9	188.1	5001
			1-24-75	56.0	189.0	
13S/19E-09Q01 M	4	288.2	10-01-74	77.0	211.2	5631
			2-01-75	NM-0		
13S/19E-16K01 M		290.0	10-10-74	81.5	208.5	5001
			1-24-75	76.5	213.5	
13S/20E-12H01 M		343.4	10-01-74	NM-1		5631
			2-01-75	76.5	266.9	
13S/23E-31P01 M	4	406.5	10-01-74	30.9	375.6	5631
			2-01-75	34.5	372.0	
14S/18E-08J01 M	4	227.4	10-02-74	72.8	154.6	5631
			2-01-75	65.9	161.5	
14S/19E-20B02 M	4	245.0	10-02-74	48.5	196.5	5631
			2-01-75	NM-6		
14S/20E-06J01 M	1	279.4	2-01-75	NM-1		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	10-02-74	32.8	249.7	5631
			2-01-75	36.1	246.4	
CITY OF FRESNO				5-22.16		
13S/20E-21J01 M		310.0	4-00-75	96.3	213.7	5200
13S/20E-23B01 M		325.0	4-00-75	93.2	231.8	5200
13S/20E-28E01 M		299.3	10-03-74	87.0	212.3	5200
			4-01-75	91.5	207.8	
13S/20E-35H02 M		305.3	4-00-75	80.5	224.8	5200
14S/20E-10M01 M		291.4	10-03-74	76.1	215.3	5200
			4-00-75	74.5	216.9	
FRESNO SLOUGH AREA				5-22.17		
14S/15E-25H02 M		160.0	10-11-74	30.5	129.5	5001
			1-23-75	20.4	139.6	
14S/16E-03C01 M		177.0	10-10-74	76.5	100.5	5001
			1-22-75	67.5	109.5	
14S/16E-08D01 M		165.0	10-11-74	NM-1		5001
			1-22-75	42.2	122.8	
14S/16E-22N01 M	1	164.0	10-11-74	33.0	131.0	5001
			1-13-75	28.3	135.7	
14S/17E-25A01 M	1	210.0	10-15-74	113.3	96.7	5620
			1-13-75	101.9	108.1	
15S/16E-12C03 M		169.5	11-07-74	40.0	129.5	5050
			1-16-75	39.8	129.7	5620
15S/17E-22R01 M	1	185.0	10-02-74	NM-6		5620
15S/18E-07A02 M		204.0	10-17-74	126.3	77.7	5620
			1-15-75	NM-5		
16S/18E-03J01 M		206.0	2-24-75	NM-1		5050
16S/18E-33P01 M		195.0	2-21-75	152.0	43.0	5050
16S/19E-34P01 M		220.0	11-07-74	125.0	95.0	5050
			2-21-75	115.0	105.0	
17S/17E-12H01 M	1	199.0	12-19-74	150.0	49.0	5050
17S/18E-23A02 M	1	200.0	11-07-74	79.0	121.0	5050
			2-20-75	95.0	105.0	
CONSOLIDATED I.D.				5-22.18		
14S/22E-22N01 M	4	355.7	10-01-74	27.7	328.0	5601
			2-03-75	27.8	327.9	5636
15S/19E-24N01 M	4	245.7	10-01-74	83.9	161.8	5601
			2-03-75	81.2	164.5	5636
15S/20E-28A01 M		264.0	11-00-75	NM-0		5636
15S/21E-15D01 M	4	301.0	10-01-74	26.8	274.2	5601
			2-03-75	24.6	276.4	5636
15S/22E-16A01 M	4	337.0	10-01-74	24.6	312.4	5601
			2-04-75	25.2	311.8	5636
15S/22E-29D01 M	4	321.0	10-01-74	24.3	296.7	5601
			2-04-75	25.9	295.1	5636
16S/19E-14A01 M	4	235.0	10-01-74	109.5	125.5	5601
			2-04-75	99.4	135.6	5636
16S/20E-22N01 M	4	248.0	10-02-74	64.2	183.8	5601
			2-04-75	60.5	187.5	5636
16S/21E-22N01 M	4	271.0	10-02-74	43.1	227.9	5636
			2-04-75	40.3	230.7	
16S/22E-23R01 M	4	297.0	10-02-74	21.5	275.5	5636
			2-04-75	21.9	275.1	
17S/22E-03C01 M	4	286.0	10-02-74	19.2	266.8	5636
			2-04-75	20.6	265.4	
ALTA I.D.				5-22.19		
14S/23E-36R01 M	4	391.0	10-01-74	46.8	344.2	5637
			1-31-75	47.3	343.7	
14S/24E-31P01 M	4	395.0	10-01-74	39.0	356.0	5637
			1-31-75	46.8	348.2	
15S/23E-23A02 M	4	358.0	10-01-74	43.5	314.5	5637
			1-31-75	42.4	315.6	
15S/24E-22D01 M	4	388.0	10-01-74	25.4	362.6	5637
			1-31-75	26.3	361.7	
16S/23E-23E01 M	4	314.0	10-04-74	21.0	293.0	5637
			2-05-75	21.6	292.4	
ALTA I.D.				5-22.19		
16S/24E-21J01 M	1	336.0	10-01-74	NM-1		5637
			2-03-75	27.1	308.9	
16S/25E-29A01 M	4	364.0	10-02-74	36.1	327.9	5637
			2-03-75	29.3	334.7	
17S/22E-25A01 M	4	275.0	10-02-74	47.9	227.1	5637
			2-04-75	38.1	236.9	
17S/22E-25J01 M	4	275.0	10-02-74	44.3	230.7	5637
			2-04-75	42.9	232.1	
17S/24E-15A03 M		302.0	10-03-74	30.1	271.9	5001
			1-22-75	22.2	279.8	
17S/25E-10C01 M	4	335.0	10-03-74	31.3	303.7	5637
			2-03-75	31.4	303.6	
17S/25E-18R01 M	4	321.0	10-03-74	51.8	269.2	5637
			2-03-75	49.6	271.4	
LOWER KINGS RIVER AREA				5-22.20		
17S/19E-14J01 M		217.0	11-07-74	81.0	136.0	5050
			2-21-75	84.0	133.0	
17S/20E-20D01 M	1	223.0	11-07-74	68.0	155.0	5050
			2-21-75	72.0	151.0	
17S/21E-11K01 M		257.0	11-06-74	37.0	220.0	5050
			2-19-75	23.0	234.0	
18S/19E-35J02 M	3	211.0	11-06-74	116.0	95.0	5050
			2-18-75	110.0	101.0	
18S/20E-16A01 M	1	230.0	11-06-74	7.5	222.5	5050
			2-19-75	8.0	222.0	
18S/21E-10R01 M		254.0	11-06-74	64.0	190.0	5050
			1-30-75	62.7	191.3	5129
19S/19E-25A01 M	1	208.0	11-06-74	5.4	202.6	5050
			2-18-75	2.0	206.0	
ORANGE COVE I.D.				5-22.21		
14S/24E-29C02 M	4	430.5	10-03-74	NM-1		5600
			2-04-75	41.5	389.0	
14S/25E-30D01 M	1	510.0	9-30-74	24.0	486.0	5001
			1-20-75	24.1	485.9	
15S/24E-14H01 M	4	415.0	10-01-74	24.8	390.2	5000
			2-04-75	27.4	387.6	
16S/25E-04C02 M	4	415.0	10-04-74	14.0	401.0	5600
			2-05-75	16.2	398.8	
STONE CORRAL I.D.				5-22.22		
17S/25E-01D01 M	1	355.0	10-03-74	NM-1		5637
			2-03-75	NM-9		
17S/26E-07R01 M		364.0	10-07-74	13.1	350.9	5619
			1-23-75	16.3	347.7	5601
IVANHOE I.D.				5-22.23		
17S/25E-27R01 M	4	350.0	10-01-74	77.2	272.8	5602
			2-04-75	71.7	278.3	
17S/25E-35M01 M	4	349.0	10-01-74	70.9	278.1	5602
			2-04-75	61.5	287.5	
17S/25E-36G01 M	4	365.0	10-01-74	63.4	301.6	5602
			2-04-75	61.5	303.5	
17S/26E-32N01 M	4	385.0	10-01-74	62.5	322.5	5602
			2-04-75	57.1	327.9	
17S/26E-34D01 M	4	416.0	10-01-74	62.2	353.8	5602
			2-04-75	60.5	355.5	
KAWEAH-DELTA W.C.D.				5-22.24		
17S/25E-15P01 M	1	340.0	10-03-74	82.4	257.6	5001
			1-22-75	75.2	264.8	
17S/26E-17P02 M	1	385.0	10-03-74	16.7	368.3	5001
			1-23-75	22.0	363.0	
17S/27E-34P01 M	1	470.0	10-04-74	12.7	457.3	5001
			1-23-75	13.0	457.0	
18S/22E-30E02 M	3	248.0	10-01-74	95.0	153.0	5603
			2-13-75	89.0	159.0	
18S/23E-12H01 M		282.5	10-02-74	NM-9		5603
			2-20-75	47.5	235.0	
18S/23E-34A01 M		271.0	9-23-74	112.7	158.3	5129
			2-11-75	96.7	174.3	
18S/24E-26A01 M	4	312.0	10-12-74	11.0	301.0	5603
			2-21-75	NM-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
KAWEAH-DELTA W.C.D.				5-22.24		
18S/25E-12Q01 M	4	363.0	10-04-74	61.5	301.5	5603
			2-13-75	45.5	317.5	
18S/25E-33F01 M	4	338.0	10-04-74	33.0	305.0	5603
			2-26-75	24.0	314.0	
18S/26E-27E01 M	4	390.0	10-04-74	NM-1		5603
			2-25-75	23.0	367.0	
18S/26E-30N01 M		367.0	10-04-74	15.5	351.5	5603
			2-25-75	19.5	347.5	
19S/22E-01N02 M	1	245.0	10-10-74	61.5	183.5	5603
			2-20-75	64.5	180.5	
19S/22E-36E01 M	1	234.3	9-19-74	75.3	159.0	5129
			2-06-75	75.0	159.3	
19S/25E-07K01 M		318.0	10-07-74	67.0	251.0	5603
			2-21-75	68.0	250.0	
19S/26E-34R02 M	1	341.0	9-23-74	90.1	250.9	5001
			1-20-75	63.5	277.5	
20S/22E-10C01 M	1	227.0	10-10-74	88.0	139.0	5603
TULARE I.D.				5-22.25		
19S/23E-14R01 M	1	270.0	10-03-74	NM-1		5604
			2-11-75	70.0	200.0	
19S/23E-32H01 M	1	250.5	10-03-74	75.0	175.5	5604
			2-11-75	74.0	176.5	
19S/24E-16P01 M		290.0	10-03-74	87.0	203.0	5604
			2-12-75	76.0	214.0	
19S/24E-27001 M	1	290.0	10-01-74	82.5	207.5	5604
			2-12-75	NM-1		
19S/25E-17A02 M	4	328.0	10-01-74	47.5	280.5	5604
			2-06-75	49.5	278.5	
20S/23E-08B02 M	1	241.0	10-04-74	82.5	158.5	5603
			2-11-75	76.5	164.5	5604
20S/24E-16H01 M		273.0	10-01-74	95.0	178.0	5603
			2-10-75	81.0	192.0	
20S/24E-30J02 M	1	250.0	10-02-74	101.0	149.0	5603
			2-10-75	79.5	170.5	5604
21S/23E-05R01 M	1	222.0	10-02-74	68.0	154.0	5604
			2-10-75	NM-1		
EXETER I.D.				5-22.26		
18S/26E-25K01 M	4	436.0	10-01-74	NM-6		5605
18S/26E-34P02 M	4	391.0	10-01-74	45.3	345.7	5605
			2-03-75	42.5	348.5	
18S/27E-29D01 M	4	447.0	10-01-74	27.4	419.6	5605
			2-03-75	26.8	420.2	
19S/26E-14E01 M	4	375.0	10-01-74	66.3	308.7	5605
			2-03-75	62.8	312.2	
19S/26E-23E01 M	4	359.5	10-01-74	65.2	294.3	5605
			2-03-75	59.8	299.7	
LINDSAY-STRATHMORE I.D.				5-22.27		
19S/27E-29001 M	4	385.0	10-03-74	46.3	338.7	5606
			2-05-75	45.9	339.1	
20S/27E-06B01 M	4	372.0	10-03-74	42.7	329.3	5606
			2-05-75	NM-4		
20S/27E-16A01 M	4	426.0	10-03-74	23.8	402.2	5006
			2-05-75	26.8	399.2	
20S/27E-21F01 M	4	414.0	10-03-74	26.2	387.8	5006
			2-05-75	28.2	385.8	
20S/27E-29J01 M	4	406.0	10-03-74	NM-1		5006
			2-05-75	21.0	385.0	
LINDMORE I.D.				5-22.28		
20S/26E-01P01 M	4	360.0	9-30-74	68.2	291.8	5607
			2-03-75	57.9	302.1	
20S/26E-22C02 M	4	341.0	10-01-74	79.0	262.0	5607
			2-04-75	75.0	266.0	
20S/26E-24K01 M		362.5	10-01-74	44.5	318.0	5607
			2-04-75	40.0	322.5	
20S/26E-32A01 M	4	331.5	10-02-74	NM-1		5607
			10-09-74	82.6	248.9	5609
			2-05-75	65.0	266.5	5607
			2-13-75	76.9	254.6	5609
20S/27E-29E01 M	4	392.0	10-02-74	25.5	366.5	5607
			2-06-75	18.0	374.0	
PORTERVILLE I.D.				5-22.29		
21S/26E-12A01 M		372.0	10-01-74	30.3	341.7	5608
			2-07-75	29.1	342.9	
21S/27E-21C01 M		409.0	10-01-74	17.5	391.5	5608
			2-07-75	NM-5		
21S/27E-28E01 M	4	420.0	10-01-74	24.1	395.9	5608
			2-07-75	19.9	400.1	
22S/26E-01J01 M	4	395.0	10-02-74	72.8	322.2	5608
			2-07-75	69.1	325.9	
22S/27E-06001 M	4	397.0	2-07-75	50.5	346.5	5608
22S/27E-10A01 M	4	455.0	10-02-74	NM-0		5608
22S/27E-04A01 M	4	432.0	10-01-74	15.9	416.1	5608
			2-06-75	18.2	413.8	
LOWER TULE RIVER I.D.				5-22.30		
21S/23E-22J01 M	1	221.5	10-09-74	59.0	162.5	5603
			2-24-75	57.0	164.5	
21S/24E-15H01 M	1	253.0	10-17-74	NM-4		5609
			2-19-75	NM-1		
21S/24E-31001 M		230.0	10-17-74	62.5	167.5	5609
			2-18-75	65.1	164.9	
21S/24E-35M01 M		251.0	10-15-74	82.2	168.8	5609
			2-18-75	75.0	176.0	
21S/25E-08H01 M		286.0	10-18-74	85.9	200.1	5609
			2-14-75	62.5	223.5	
21S/26E-06G02 M		322.0	10-09-74	66.4	255.6	5609
			2-12-75	56.0	266.0	
21S/26E-10E01 M		350.0	10-08-74	36.7	313.3	5609
			2-12-75	36.1	313.9	
22S/24E-09A01 M		245.0	10-11-74	124.1	119.9	5609
			2-19-75	123.7	120.3	
22S/24E-15A01 M	1	253.0	10-11-74	134.0	119.0	5609
			2-19-75	129.6	123.4	
22S/25E-10E01 M		296.0	10-10-74	91.7	204.3	5609
			2-10-75	90.6	205.4	
22S/25E-15A01 M	1	303.0	10-10-74	129.1	173.9	5609
			2-10-75	127.9	175.1	
22S/26E-06A01 M	4	337.0	10-01-74	106.0	231.0	5611
			1-29-75	98.5	238.5	
VANDALIA I.D.				5-22.31		
22S/28E-07Q01 M		524.0	10-01-74	NM-1		5001
			1-21-75	119.0	405.0	
22S/28E-17N01 M		577.0	10-01-74	165.7	411.3	5001
			1-21-75	NM-6		
22S/28E-18A01 M		535.0	10-01-74	132.6	402.4	5001
			1-21-75	105.6	429.4	
SAUCELITO I.D.				5-22.32		
22S/26E-15J01 M	4	371.0	10-01-74	112.0	259.0	5611
			1-30-75	NM-1		
23S/26E-02R01 M	4	396.0	10-04-74	167.5	228.5	5611
			1-29-75	149.0	247.0	
23S/26E-10F01 M		375.0	10-03-74	173.5	201.5	5611
			1-29-75	NM-1		
PIXLEY I.D.				5-22.33		
22S/25E-25N01 M		310.0	9-26-74	NM-1		5612
			2-07-75	NM-7		
23S/24E-16R01 M		222.0	9-30-74	138.4	83.6	5612
			2-05-75	104.5	117.5	
23S/25E-14C01 M	4	300.0	9-24-74	63.8	236.2	5612
			2-03-75	NM-9		
23S/26E-08R01 M		345.0	9-24-74	180.4	164.6	5612
			2-03-75	168.0	177.0	
ALPAUGH-ALLENSWORTH AREA				5-22.34		
23S/24E-35A02 M		235.0	9-24-74	204.9	30.1	5001
			1-24-75	NM-1		
24S/23E-05R02 M		210.0	9-25-74	281.7	- 71.7	5001
			1-24-75	228.3	- 18.3	
24S/23E-21B02 M		205.0	9-25-74	68.9	136.1	5001
			1-24-75	68.7	136.3	
24S/23E-34R01 M	3	205.0	9-25-74	NM-1		5001
			1-24-75	236.2	- 31.2	

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-20R01 M		218.0	9-24-74	NM-1		5001
			1-24-75	215.5	2.5	
24S/24E-22R01 M		233.0	9-24-74	240.1	- 7.1	5001
			1-23-75	163.0	70.0	
24S/24E-34F01 M		232.0	9-24-74	98.7	133.3	5001
			1-24-75	86.2	145.8	
24S/25E-17P01 M	3	268.0	9-24-74	118.0	150.0	5001
			1-23-75	106.5	161.5	
DELANO-EARLIMART I.D.				5-22.35		
23S/25E-26K01 M	1	303.0	10-04-74	164.0	139.0	5613
			1-10-75	141.0	162.0	
23S/26E-29P01 M		357.0	10-07-74	167.5	189.5	5613
			1-30-75	NM-1		
23S/27E-27G01 M	4	552.0	9-26-74	NM-1	275.0	5001
			1-22-75	277.0	275.0	
24S/25E-10A01 M	3	304.0	9-30-74	123.5	180.5	5613
			1-29-75	109.5	194.5	
24S/25E-33J01 M		292.0	9-30-74	44.5	247.5	5613
			1-28-75	45.5	246.5	
24S/26E-05R01 M	4	376.0	10-04-74	166.0	210.0	5613
			1-30-75	158.0	218.0	
24S/26E-20H01 M	4	378.0	10-03-74	134.0	244.0	5613
			1-29-75	124.0	254.0	
24S/26E-29R02 M	1	401.0	10-04-74	126.0	275.0	5613
			1-28-75	120.0	280.0	
24S/26E-32G01 M	1	397.0	10-03-74	108.0	289.0	5613
			1-28-75	125.0	272.0	
25S/26E-10B03 M	4	430.0	10-02-74	176.5	253.5	5613
			1-27-75	163.5	266.5	
25S/26E-16P01 M		388.0	9-23-74	99.2	288.8	5001
			1-23-75	89.5	298.5	
25S/27E-22H01 M	4	750.0	9-23-74	474.0	276.0	5001
			1-20-75	NM-1		
SOUTHERN SAN JOAQUIN M.U.D.				5-22.36		
25S/25E-36R02 M		335.0	9-26-74	205.4	129.6	5614
			1-30-75	160.0	175.0	
25S/26E-28M02 M		415.0	9-27-74	204.6	210.4	5614
			1-31-75	201.6	213.4	
26S/26E-16P01 M		443.0	9-26-74	NM-3		5614
			1-31-75	NM-3		
NORTH KERN W.S.D.				5-22.37		
26S/25E-15P01 M	3	348.0	9-23-74	243.0	109.0	5050
			1-27-75	195.0	153.0	
26S/25E-15R01 M	3	352.3	9-23-74	195.0	157.3	5050
			1-27-75	195.0	157.3	
26S/26E-30P01 M	2	392.0	1-30-75	255.0	137.0	5050
27S/25E-01N01 M	3	394.0	9-25-74	117.0	277.0	5050
			1-31-75	106.0	288.0	
27S/25E-01N03 M	2	394.0	9-25-74	301.0	93.0	5050
			1-31-75	271.0	123.0	
27S/26E-20D01 M	1	445.3	9-25-74	340.0	105.3	5050
			1-31-75	NM-1		
27S/27E-30H02 M	4	525.0	9-23-74	479.0	46.0	5001
			1-20-75	324.0	201.0	
28S/25E-13L01 M	3	361.1	9-24-74	240.0	121.1	5050
			1-28-75	218.0	143.1	
28S/26E-21H01 M	3	388.0	9-23-74	181.0	207.0	5050
			1-28-75	179.0	209.0	
28S/26E-21M03 M	2	388.0	9-23-74	275.0	113.0	5050
			1-28-75	250.0	138.0	
SHAFTER-WASCO I.D.				5-22.38		
27S/24E-01L02 M		322.0	9-23-74	295.1	26.9	5616
			1-27-75	250.5	71.5	
27S/24E-35C01 M	3	321.8	9-24-74	NM-1		5050
			1-29-75	252.0	69.8	
27S/25E-28A01 M	3	375.0	9-26-74	283.0	92.0	5050
			1-28-75	260.0	115.0	
28S/25E-16P01 M		329.0	9-25-74	240.5	88.5	5616
			2-03-75	217.0	112.0	
KERN RIVER DELTA AREA				5-22.40		
28S/26E-29L01 M	3	350.0	9-26-74	201.5	148.5	5616
			2-04-75	NM-1		
KERN RIVER DELTA AREA				5-22.40		
29S/25E-12M03 M	2	330.0	9-30-74	188.5	141.5	5133
			2-05-75	181.0	149.0	
30S/25E-18R01 M		300.0	9-25-74	100.0	200.0	5050
			1-29-75	102.0	198.0	
30S/25E-22D01 M		308.5	10-01-74	91.4	217.1	5640
			2-01-75	92.1	216.4	
30S/26E-22P02 M	2	338.0	10-01-74	120.5	217.5	5133
			2-04-75	108.5	229.5	
30S/28E-32B01 M	1	353.0	9-26-74	114.0	240.4	5001
			1-23-75	110.4	244.0	
31S/27E-04J02 M		340.0	10-01-74	149.0	191.0	5133
			2-04-75	141.5	198.5	
31S/27E-28J01 M	1	312.1	10-01-74	81.5	230.6	5133
			2-04-75	93.5	218.6	
31S/28E-30M01 M	3	314.7	9-27-74	90.0	224.7	5050
			1-30-75	75.0	239.7	
32S/27E-18E01 M	3	292.6	9-27-74	145.0	147.6	5050
			1-30-75	125.0	167.6	
32S/28E-04B01 M		301.0	9-24-75	NM-1		5001
			1-20-75	NM-1		
EDISON-MARICOPA AREA				5-22.41		
11N/19W-24H01 S		737.0	9-30-74	589.4	147.6	5644
			2-06-75	582.3	154.7	
11N/19W-10A01 S	1	612.0	9-30-74	472.9	139.1	5644
			2-11-75	479.9	136.1	
11N/20W-07Q01 S	3	452.3	1-31-75	283.0	169.3	5050
11N/20W-24E01 S		740.0	2-01-74	585.0	155.0	5050
11N/21W-05M01 S	3	515.9	1-31-75	420.0	95.9	5050
11N/22W-04H01 S	3	529.0	1-31-75	400.0	129.0	5050
29S/29E-33N01 M	4	580.0	9-17-74	442.3	137.7	5644
			1-21-75	426.3	153.7	
30S/28E-02R01 M	4	411.0	9-26-74	244.0	167.0	5001
			1-24-75	228.0	182.0	
30S/28E-10N01 M		373.0	9-26-74	56.0	317.0	5001
			1-23-75	57.2	315.8	
30S/28E-10N04 M		373.0	9-26-74	207.5	165.5	5001
			1-23-75	197.5	175.5	
30S/29E-05P01 M		515.0	9-18-74	375.2	139.8	5644
			1-21-75	NM-3		
30S/29E-27A01 M	1	575.0	9-20-74	447.0	128.0	5644
			1-27-75	442.5	132.5	
30S/30E-20R01 M	4	794.0	10-17-74	232.3	561.7	5644
			2-28-75	NM-1		
31S/29E-04P01 M		459.0	9-23-74	332.5	126.5	5644
			1-29-75	292.5	166.5	
31S/29E-29A01 M		400.0	9-24-74	154.5	245.5	5001
			1-20-75	144.9	255.1	
31S/30E-21G01 M	4	536.0	10-10-74	364.2	171.8	5644
			2-19-75	358.5	177.5	
32S/28E-23R01 M		386.0	10-10-74	255.6	130.4	5644
			2-20-75	260.4	125.6	
32S/29E-19M02 M		416.0	10-15-74	199.9	216.1	5644
			2-26-75	197.8	218.2	
32S/29E-19M03 M		416.0	10-15-74	339.0	77.0	5644
			2-26-75	322.3	93.7	
BUENA VISTA W.S.D.				5-22.42		
27S/22E-21F02 M		240.0	9-27-74	16.0	224.0	5133
			1-29-75	18.0	222.0	
27S/22E-32M01 M	1	241.0	9-27-74	141.0	100.0	5133
			1-29-75	136.0	105.0	
28S/22E-09D01 M	3	240.0	9-27-74	12.5	227.5	5133
			1-29-75	12.5	227.5	
28S/23E-31R01 M		257.8	10-01-74	26.2	231.6	5640
			2-01-75	36.1	221.7	
29S/23E-08A01 M		259.0	10-01-74	37.7	221.3	5640
			2-01-75	48.8	210.2	
29S/23E-27M01 M	1	270.0	9-27-74	55.5	214.5	5133
			1-31-75	59.5	210.5	
30S/23E-01D01 M		276.8	0-01-74	73.0	203.8	5640
			2-01-75	84.7	192.1	

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
BUENA VISTA W.S.D.				5-22.42		
30S/24E-02C01 M		288.7	10-01-74	112.6	176.1	5640
			2-01-75	107.5	181.2	
30S/24E-04C01 M	1	282.0	9-27-74	87.5	194.5	5133
			1-31-75	91.5	190.5	
31S/25E-26A01 M		289.0	10-02-74	84.0	205.0	5133
			1-30-75	66.0	223.0	
SEMITROPIC W.S.D.				5-22.43		
25S/22E-02N02 M	1	212.0	9-25-74	NM-6		5133
25S/22E-14G01 M		215.0	9-25-74	256.5	- 41.5	5133
			1-28-75	195.5	19.5	
25S/23E-28D01 M		217.0	9-26-74	111.0	106.0	5133
			1-29-75	103.0	114.0	
25S/23E-28D03 M	2	217.0	9-26-74	NM-3		5133
			1-29-75	NM-3		
25S/24E-10K01 M	1	240.0	9-25-74	57.6	182.4	5001
			1-23-75	56.0	184.0	
25S/24E-15N01 M		248.0	9-25-74	75.3	172.7	5001
			1-23-75	73.2	174.8	
25S/24E-30H01 M		238.0	9-25-74	NM-7		5133
			1-28-75	NM-4		
26S/21E-14J01 M	1	237.0	9-23-74	28.0	209.0	5133
			1-27-75	36.0	201.0	
26S/22E-21D01 M	2	240.0	9-23-74	35.0	205.0	5133
			1-28-75	36.0	204.0	
26S/23E-02R01 M	2	234.9	9-26-74	NM-7		5133
			1-29-75	NM-9		5121
26S/24E-23H01 M	2	295.5	9-27-74	322.0	- 26.5	5050
			1-30-75	249.0	46.5	
27S/23E-01R01 M	1	267.0	9-24-74	97.5	169.5	5133
			1-28-75	96.5	170.5	
27S/23E-01R04 M	2	267.0	9-24-74	303.5	- 36.5	5133
			1-28-75	257.5	9.5	
27S/23E-01R05 M	2	267.0	9-24-74	294.5	- 27.5	5133
			1-28-75	249.5	17.5	
27S/23E-09C01 M		260.0	9-26-74	289.0	- 29.0	5133
			1-31-75	283.0	- 23.0	
28S/23E-11E01 M		255.0	10-01-74	39.0	216.0	5640
			2-01-75	43.5	211.5	
29S/24E-14R01 M	1	290.0	10-00-74	NM-0		5133
AVENAL-MCKITTRICK AREA				5-22.44		
24S/19E-10P01 M		330.0	2-19-74	24.1	305.9	5050
			5-20-74	24.0	306.0	
25S/19E-20Q02 M	1	480.0	9-23-74	117.6	362.4	5133
			1-27-75	106.6	373.4	
25S/20E-04C01 M	1	268.0	8-26-74	45.5	222.5	5050
			11-19-74	NM.6		
26S/18E-19B02 M	1	875.0	9-23-74	165.0	710.0	5133
			1-27-75	164.0	711.0	
28S/22E-20M01 M		290.0	11-19-74	67.0	223.0	5050
			3-18-75	68.0	222.0	
TULARE LAKE-LOST HILLS AREA				5-22.45		
22S/19E-18P02 M	1	255.0	11-18-74	176.0	79.0	5050
			3-17-75	175.0	80.0	
22S/21E-01J01 M	2	185.5	2-20-75	94.0	91.5	5050
23S/19E-14R01 M	1	235.0	11-18-74	32.0	203.0	5050
			3-17-75	33.5	201.5	
24S/20E-21N02 M	1	233.0	3-17-75	NM-0		5050
24S/21E-15J01 M		211.0	2-19-75	19.5	191.5	5050
24S/21E-36B01 M		210.0	2-19-75	17.5	192.5	5050
24S/22E-28A02 M		207.0	11-06-74	233.0	- 26.0	5050
			2-19-75	197.0	10.0	
24S/22E-35E01 M		213.0	11-06-74	263.0	- 50.0	5050
			2-19-75	212.0	1.0	
26S/22E-30K01 M	1	237.5	8-27-74	35.5	202.0	5050
			11-19-74	NM-6		

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
CORCORAN I.D.				5-22.46		
20S/22E-35R01 M		216.0	11-06-74	45.0	171.0	5050
			2-20-75	55.0	161.0	
21S/22E-27A01 M		196.0	11-06-74	10.0	186.0	5050
			2-20-75	9.5	186.5	
22S/22E-01B02 M		201.0	11-06-74	5.2	195.8	5050
			2-20-75	6.5	194.5	
22S/22E-05L01 M	2	188.0	2-20-75	NM-6		5050
22S/22E-09L01 M		189.0	2-20-75	99.0	90.0	5050
22S/22E-10A01 M	2	192.0	11-06-74	117.0	75.0	5050
			2-20-75	102.0	90.0	
22S/22E-13P01 M	1	193.0	11-06-74	NM-5		5050
			2-20-75	NM-6		
22S/22E-22N01 M	2	191.0	11-06-74	NM-6		5050
MENDOTA-HURON AREA				5-22.47		
13S/12E-22N01 M	2	280.0	10-17-74	90.4	189.6	5607
			3-25-75	90.0	190.0	
14S/15E-18E02 M		178.0	12-19-74	NM-6		5050
15S/14E-15E04 M		236.0	12-17-74	NM-4		5050
			1-27-75	NM-6		
15S/15E-22Q01 M		175.0	10-16-74	72.7	102.3	5001
			1-27-75	81.0	94.0	
15S/16E-17L01 M		165.0	10-17-74	42.7	122.3	5621
			1-16-75	42.6	122.4	
15S/16E-28A04 M		164.0	12-20-74	130.0	34.0	5050
			1-16-75	129.7	34.3	5620
17S/14E-13R01 M	1	457.0	12-23-74	630.0	-173.0	5050
17S/16E-24R01 M		232.5	11-20-74	NM-6		5050
17S/16E-30A03 M		290.0	10-16-74	60.0	230.0	5001
			1-17-75	58.5	231.5	
17S/16E-30A05 M		290.0	10-16-74	349.2	- 59.2	5001
			1-17-75	358.7	- 68.7	
17S/17E-20N01 M	3	228.0	12-19-74	NM-1		5050
18S/17E-12N01 M	2	253.0	12-19-74	245.0	8.0	5050
19S/18E-15M01 M	2	274.0	2-06-74	245.0	29.0	5050
20S/17E-32F01 M		447.0	12-15-74	607.0	-160.0	5050
20S/18E-11N01 M	3	277.0	12-16-74	NM-6		5050
20S/18E-36D01 M		260.0	12-17-74	198.0	62.0	5050
21S/18E-28M02 M		363.0	12-17-74	335.0	28.0	5050
POSO RESOURCES C.D.				5-22.48		
11S/13E-05Q01 M		117.0	3-18-75	8.8	108.2	5529
TERRA BELLA I.D.				5-22.50		
22S/27E-25J03 M		532.0	9-14-74	108.0	424.0	5619
			2-20-75	87.0	445.0	
23S/27E-05A01 M	4	450.0	9-30-74	NM-1		5001
			1-22-75	147.1	302.9	
23S/28E-06A02 M	1	550.0	9-14-74	101.0	449.0	5619
			2-20-75	99.0	451.0	
MERCED BOTTOMS				5-22.54		
07S/10E-23K01 M		80.0	11-12-74	16.0	64.0	5050
			3-03-75	4.5	75.5	
07S/10E-23K02 M		80.0	11-12-74	4.3	75.7	5050
			3-03-75	3.5	76.5	
07S/12E-27F01 M		110.5	11-12-74	12.0	98.5	5050
			2-28-75	10.0	100.5	
08S/12E-19Q01 M		90.0	2-27-75	12.0	78.0	5050
09S/12E-01C01 M	1	110.5	11-12-74	NM-1		5050
			2-26-75	47.0	63.5	
09S/14E-01B01 M		180.0	11-12-74	89.0	91.0	5050
			2-26-75	69.0	111.0	
09S/14E-01B02 M		180.0	11-12-74	85.0	95.0	5050
			2-26-75	66.0	114.0	

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
MERCED BOTTOMS				5-22.54		
09S/14E-01B03 M		180.0	11-12-74	40.0	140.0	5050
			2-26-75	39.0	141.0	
09S/14E-06D01 M		141.0	11-12-74	48.0	93.0	5050
			1-20-75	43.4	97.6	5001
GARFIELD W.D.				5-22.65		
12S/20E-13H01 M	4	387.0	10-03-74	97.6	289.4	5622
			2-03-75	96.4	290.6	
12S/21E-07A02 M	4	405.5	10-03-74	120.8	284.7	5622
			2-03-75	120.0	285.5	
12S/21E-18A03 M	4	390.5	10-03-74	94.4	296.1	5622
			2-03-75	94.0	296.5	
KINGS COUNTY W.D.				5-22.66		
17S/20E-36R02 M	1	243.0	9-18-74	17.3	225.7	5129
			1-30-75	16.1	226.9	
17S/22E-11P01 M	1	283.0	9-18-74	22.3	260.7	5129
			1-30-75	22.9	260.1	
17S/22E-35N01 M	1	266.0	9-18-74	43.1	222.9	5129
			1-30-75	35.9	230.1	
18S/21E-17N01 M	1	238.0	9-18-74	11.1	226.9	5129
			1-30-75	10.9	227.1	
18S/22E-21H01 M	1	258.0	9-18-74	85.1	172.9	5129
			1-30-75	NM-6		
18S/22E-36P01 M		245.0	10-09-74	73.7	171.3	5129
			1-30-75	83.5	161.5	5603
18S/23E-28B01 M	1	263.0	9-20-74	112.2	150.8	5129
			1-30-75	111.9	151.1	
19S/21E-20N01 M	1	225.0	9-20-74	10.3	214.7	5129
			2-06-75	10.7	214.3	
19S/22E-04B01 M	1	245.0	9-19-74	129.4	115.6	5129
			1-30-75	127.3	117.7	
19S/22E-19A01 M	2	235.0	9-19-74	75.4	159.6	5129
			2-06-75	71.2	163.8	
19S/22E-23A01 M		240.5	9-19-74	78.6	161.9	5129
			2-06-75	77.1	163.4	
20S/21E-03A01 M		220.0	10-10-74	9.5	210.5	5603
			2-20-75	14.5	205.5	
20S/21E-05E01 M	2	219.0	9-20-74	155.6	63.4	5129
			2-06-75	153.1	65.9	
20S/22E-10H02 M	2	225.0	9-24-74	117.5	107.5	5129
			2-07-75	NM-9		
PLEASANT VALLEY				5-22.69		
20S/15E-25D01 M	1	619.0	1-03-75	DRY		5050
20S/15E-32A01 M	1	675.0	1-03-75	247.0	428.0	5050
21S/16E-02N01 M	1	570.0	1-02-75	258.0	312.0	5050
21S/16E-08E01 M	1	604.0	1-02-75	234.0	361.0	5050
21S/16E-35D01 M	1	682.0	1-02-75	363.0	319.0	5050

APPENDIX D

SURFACE WATER QUALITY

APPENDIX D

SURFACE WATER QUALITY

Introduction

Appendix D summarizes the surface water quality for the San Joaquin Valley for 1975 water year (October 1, 1974, through September 30, 1975). These data were obtained from 101 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 San Joaquin River Basin		Hydrographic Area C 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	173, 188, 196
Big Creek above Pine Flat Reservoir	C11320.00	11S/25E-4	--	S	DWR	176, 189, 197, 200
Burkhard Drain	B00936.30	4S/7E-4L	June 1975			168, 184, 193
Burns Creek at Merced-Mariposa County Line	B56152.50	6S/16E-19D	February 1974		DWR	173, 182, 188, 196
Caliente Creek above Tehachapi	C61575.00	30S/32E-17P				179
Canal Creek at Oakdale Road	B05166.50	6S/13E-10K	February 1974		DWR	170, 182, 185, 193
Chowchilla River near Raymond	B64200.00	8S/18E-01R	July 1958	S	DWR	174
Deadman Creek at Baxter Road	B06399.50	8S/17E-17M	February 1974		DWR	170, 186, 194
Delta-Mendota Canal to Mendota Pool	B00770.00	13S/15E-19Q	July 1952	S	DWR	16[illegible], 184
Dutchman Creek at Baxter Road	B06369.50	8S/17E-20N	February 1974		DWR	170, 185, 194
Fresno River near Daulton	B67150.00	10S/19E-03	January 1985	S	DWR	174
Friant-Kern Canal at Friant	B71910.00	11S/21E-05P	March 1974	Q	DWR	175
Griswold Creek above Panoche Valley	B81253.10	16S/10E-13C				175
Kaweah River above Lake Kaweah	C21210.30	17S/28E-34	December 1974	S	DWR	177, 189, 197
Kaweah River at Lemoncove	C02550.30	18S/27E-3	--	S	DWR	175, 189, 197
Kaweah River Middle Fork below No. 2 Intake near Three Rivers	C23147.00	16S/29E-33	--	S	DWR	177, 189, 198
Kaweah River North Fork near Mouth	C22010.30	17S/28E-13	--	S	DWR	177, 189, 19[illegible]
Kaweah River South Fork above Grouse Creek	C24201.50	18S/29E-16	--	S	DWR	177, 189, 198
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	Q	DWR	175, 182, 200
Kaweah River at Three Rivers	C21250.00	17S/28E-13N	April 1951	S	DWR	177
Kerckhoff Reservoir near Auberry	B71188.00	9S/22E-24P	March 1974	S	DWR	174
Kern River near Bakersfield	C05150.00	28S/29E-33	April 1951	Q	DWR	176, 182, 200
Kern River above Fairview	C51660.10	23S/32E-12	--	S	DWR	179, 190, 19[illegible]
Kern River at Hart Park	C05160.10	28S/28E-36	--	S	DWR	176, 189, 197
Kern River below Isabella Dam	C51350.00	26S/33E-30E	--	S	DWR	178
Kern River at Kernville	C51500.00	25S/33E-15	--	S	DWR	179, 190, 198
Kern River at Miracle Hot Springs	C51220.10	27S/32E-15	--	S	DWR	178, 190, 198
Kern River at Rancheria Bridge	C05180.10	29S/29E-11	--	S	DWR	176, 189, 197
Kern River South Fork near Weldon	C53110.10	26S/34E-10	--	S	DWR	179, 190, 198
Kings River below North Fork	C11460.00	12S/26E-21	--	S	DWR	177, 189, 197
Kings River below Peoples Weir	C01140.00	17S/22E-01	April 1951	Q	DWR	175
Kings River near Piedra	C11115.50	13S/24E-08B	February 1974		DWR	176, 189, 197
Kings River below Pine Flat Reservoir	C11140.00	13S/24E-02	September 1955	Q	DWR	176, 182
Kings River South Fork at Cedar Grove	C14115.30	13S/30E-1	--	S	DWR	177, 189, 197
Mariposa Creek above Mariposa Reservoir	B62204.10	7S/17E-17A	February 1974		DWR	174, 182, 188 197
Merced River at Bagby	B51320.00	04S/17E-6	November 1952	S	DWR	173, 188, 196
Merced River above Briceburg	B51410.10	03S/18E-25	October 1972	S	DWR	173, 188, 196
Merced River below El Portal	B51517.10	03S/20E-18	October 1972	S	DWR	173, 188, 196

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 below Exchequer Dam	B51200.00	04S/15E-13	April 1951	Q	DWR	173, 182, 196 200
Merced River at Happy Isles Bridge near Yosemite	B51700.00	02S/21E-	--•	S	DWR	173, 188, 196
Merced River at Junction Big Oak Flat Road and Highway 140	B51519.50	02S/21E-	February 1973	S	DWR	173, 188, 196
Merced River at Milliken Bridge	B05131.00	06S/09E-36	April 1951	M	DWR	170, 185, 193 200
Modesto Sewage Treatment Plant	B04942.30	4S/8E-3C	July 1975			169, 185, 193
Musick Creek #1 near Shaver Lake	B71406.00	10S/24E-2E	November 1974			174
Musick Creek #2 near Shaver Lake	B71408.00	10S/24E-3P	October 1974			175
Newman Wasteway	B00349.10	17S/9E-16J	June 1975			168, 184, 193
Owens Creek above Owens Reservoir	B62020.10	7S/16E-12H	February 1974		DWR	174, 188, 196
Poso Creek below Glennville	C44950.10	25S/30E-35M	December 1974			178
Salt Slough near Stevinson	B00470.00	08S/10E-10	December 1961	Q	DWR	168, 182, 184 193, 200
San Joaquin River at Crows Landing Bridge	B07250.00	6S/9E-07A	January 1957		DWR	171, 186, 195
San Joaquin River at Fremont Ford Bridge	B07375.00	07S/09E-24	July 1955		DWR	171, 182, 186, 187, 195, 200
San Joaquin River at Friant Dam	B07885.00	11S/21E-07	April 1951		DWR	172, 182, 187
San Joaquin River near Grayson	B07080.00	04S/07E-25	April 1959	M	DWR	171, 186, 194
San Joaquin River below Kerckhoff near Prather	B71180.00	10S/22E-10C	October 1974			174, 182
San Joaquin River at Maze Road Bridge	B07040.00	03S/07E-33	April 1951	M	DWR	170, 171, 186 194, 200
San Joaquin River near Mendota	B07710.00	13S/15E-07	April 1951	M	DWR	171, 187
San Joaquin River at North Fork Road Bridge	B07886.50	11S21E-07H	February 1974		DWR	172, 187, 195
San Joaquin River at Patterson Bridge	B07200.00	5S/8E-15M	February 1958		DWR	171, 186, 194
San Joaquin River below Shakeflat Creek	B71532.50	7S/24E-10	--	S	DWR	175, 188, 197
San Joaquin River South Fork at Mono Hot Springs	B74250.50	7S/27E-10	--	S	DWR	175, 188, 197
San Joaquin River near Vernalis	B07020.00	03S/06E-13	April 1951	M	DWR & USBR	179, 180, 182, 190, 191, 194, 200
San Joaquin River above Willow Creek near Auberry	B71340.00	9S/23E-15	--	S	DWR	174, 188, 197
Stanislaus River at Knights Ferry	B03185.00	1S/12E-29	--	S	DWR	169, 184, 193
Stanislaus River at Koetitz Ranch	B03115.00	03S/07E-02	April 1951	M	DWR	168, 169, 184 193
Stanislaus River Middle Fork at Beardsley	B33255.00	5N/18E-31	--	S	DWR	172, 187, 195
Stanislaus River Middle Fork at Dardanelle	B33480.10	6N/20E-30		S	DWR	172, 187, 195
Stanislaus River North Fork at Calaveras Big Trees State Park	B32110.10	5N/15E-24	--	S	DWR	172, 187, 195
Stanislaus River at Parrotts Ferry Bridge	B31400.50	2N/13E-9	--	S	DWR	172, 187, 195
Stanislaus River below Tulloch Dam	B31158.10	01S/12E-02	August 1956	Q	DWR	172, 182, 200
Sullivan Creek at Jacksonville Road	B41231.50	01N/14E-35C	November 1973			187, 195

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
Tehachapi Creek near Tehachapi	C61540.00	32S/32E-16P				179
Tejon Creek at Comanche Point Oil Field	C62050.30	12N/18W-28N	January 1970			179
Tile Drain near Patterson	B00955.30	5S/8E-21L	July 1975			168, 184
Tule River North Fork at Bear Creek Road	C32190.10	20S/29E-35	--	S	DWR	178, 190, 198
Tule River South Fork above Crew Creek	C34149.30	22S/29E-4		S	DWR	178, 190, 198
Tule River South Fork of Middle Fork near Springville	C33200.00	20S/30E-	--	S	DWR	178, 190, 198
Tule River below Springville	C31929.30	21S/29E-17	--	S	DWR	178, 190, 198
Tule River below Success Dam	C03196.00	21S/28E-35	July 1956	Q	DWR	176, 182, 200
Tule River at Worth Bridge near Porterville	C03195.00	22S/28E-3	--	S	DWR	175, 176, 189, 197
Tuolumne River above Don Pedro Reservoir	B41265.50	1S/15E-20B	March 1966	S	DWR	172
Tuolumne River above Early Intake	B41680.10	1S/18E-1	--	S	DWR	173, 188, 195
Tuolumne River at La Grange Bridge	B04175.00	03S/14E-20	--		DWR	169, 185, 193, 200
Tuolumne River at Tuolumne City	B04105.00	04S/08E-12	April 1951	M	DWR	169, 184, 193, 200
Tuolumne River at Tuolumne Meadows	B41850.10	1S/24E-3	--	S	DWR	173, 188, 195
Tuolumne River at Wards Ferry Bridge	B41290.10	1S/15E-2	--	S	DWR	172, 187, 195
Turlock Irrigation District Lateral Drain #2	B04974.30	4S/7E-25G	June 1975		DWR	169, 185, 193
Turlock Irrigation District Lateral Drain #5	B04975.30	5S/8E-25R	June 1975		DWR	170, 185, 193
Turlock Irrigation District Lateral Drain #6 and #7	B04976.30	6S/9E-22H	June 1975		DWR	170, 185, 193
Turlock Sewage Treatment Plant	B04921.30	5S/10E-21K	July 1975		DWR	169, 185, 193
Woods Creek at County Fairgrounds	B41239.50	2N/14E-36P	October 1973		DWR	187, 195
Woods Creek at Jack Page Road above Sonora	B41241.50	2N/14E-25B	October 1973		DWR	187, 195
Woods Creek below Jamestown Sewage Treatment Plant	B41235.50	1N/14E-15M	October 1973		DWR	187, 195
Woods Creek at Slate Creek	B41232.50	1N/14E-33H	October 1973		DWR	187, 195
Woods Creek below Sonora Sewage Treatment Treatment Plant	B41238.50	1N/14E-01N	October 1973		DWR	187, 195
Westly Wasteway	B00109.30	4S/7E-26K	June 1975		DWR	168, 184, 193
LAKES						
Lake McClure at Bagby	B5R736700791	4S/17E-6	1975		DWR	173, 196
Lake McClure near McClure Point	B5R735701621	4S/15E-12	September 1974		DWR	173, 196
Lake McClure at Inlet (head)	B5R736200611	4S/17E-19E	1975		DWR	196
Lake McClure at Barrett Cove	B5R738801731	3S/15E-35A	1975		DWR	196
Lake McClure at Lower Horseshoe Bend	B5R740501381	3S/16E-17F	1975		DWR	196
Lake McClure at Upper Horseshoe Bend	B5R741601611	3S/16E-8F	1975		DWR	196

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

Abbreviations, Chemical Symbols, and Codes used in this table are:

Abbreviations

TEMP	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)	DO	Dissolved oxygen content in milligrams per litre
SAT	Percent Saturation	GH	Gage height in feet above an established datum
Q	Flow	FLD	Field Determination
LAB	Laboratory	EC	Specific electrical conductance in micromhos at 25° Celsius
PH	Measure 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.

Chemical Symbols

CA	Calcium	SO_4	Sulphate
MG	Magnesium	CL	Chloride
NA	Sodium	NO_3	Nitrate
K	Potassium	F	Fluoride
CO_3	Carbonate	B	Boron
HCO_3	Bicarbonate	SIO_2	Silica

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	Q.M. Q DEPTH	OD SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN 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	TURB SAR	REM
		80 0109.30			WESTLEY WASTEWAY																
06/25/75	5050		10.5	64 F			--	--	--	--	0	89	--	--	--	--	--			168C	
0945	5001		110	18 C	8.0	458					.00	1.46					14.8				5
07/23/75	5050		11.3	73 F	8.5	668	--	--	--	--	0	128	--	--	--	--	--			120AF	
0620	5001	1	131	23 C	8.5						.00	2.10					15.2				5
		80 0349.10			NEWMAN WASTEWAY																
06/24/75	5050		5.4	66 F	7.9	1070	--	--	--	--	--	--	--	--	--	--	--			35C	
1030	5001		58	19 C													20.0				
07/22/75	5050		2.4	73 F	7.3	1060	--	--	--	--	0	240	--	--	--	--	--			20AF	
0930	5001	3	28	23 C	7.3						.00	3.93					21.6				5
09/30/75	5050		1.3	68 F	7.6	1290	--	--	--	--	0	334	--	--	--	--	--			17AF	
1005	5001	3	14	20 C	7.6						.00	5.47					22.0				5
		80 0470.00			SALT SLOUGH NR STEVINSON																
12/19/74	5050	21.20	10.0	50.0F	7.6	1650	103	60	332	--	0	262	429	401	4.0	2.20	--	1540	504		X
1310	5050		89	10.0C	8.2	2410	5.14	4.93	14.44		.00	4.29	8.93	11.31	.06		--	1460	289	6.4	
							21	20	59			17	36	46							
04/03/75	5050		8.3	55.4F	7.7	1550	100	45	246	--	0	182	395	300	--	2.10	--	1240	435		X
0900	5050		79	13.0C	8.0	1960	4.99	3.70	10.70		.00	2.98	8.22	8.46			--	1178	286	5.1	
							26	19	55			15	42	43							
05/21/75	5050			62.6F	7.4	1300	73	34	188	5.1	0	189	201	262	6.7	.60	--	925	322		
1230	5050			17.0C	7.9	1520	3.64	2.80	8.18	.13	.00	3.10	4.18	7.39	.11		18.0	881	167	4.6	
							25	19	55	1		21	28	50	1						
05/28/75	5050	21.43	10.3	71.6F	8.1	1200	64	30	170	--	0	174	165	226	--	.60	--	791	282		
1130	5050		117	22.0C	8.2	1340	3.19	2.47	7.40		.00	2.85	3.44	6.37			--	741	141	4.4	
							24	19	57			23	27	50							
06/24/75	5050		6.4	68 F	8.1	993	--	--	--	--	0	14	--	--	--	--	--			50C	
0945	5001		70	20 C	8.1	993					.00	.23					18.2				5
07/22/75	5050		5.6	82 F	7.8	867	--	--	--	--	0	124	--	--	--	--	--			30AF	
0950	5001	3	71	28 C	7.8						.00	2.03					21.6				5
08/20/75	5050			73 F	7.3	1100	62	25	130	5.6	0	154	178	170	13.0	1.00	--	720	259		
1100	5050			23 C	7.6	1160	3.09	2.06	5.66	.14	.00	2.52	3.71	4.79	.21		22.0	682	132	3.5	
							28	19	52	1		22	33	43	2						
08/27/75	5050	22.55	5.9	71.6F	7.4	1175	63	31	161	--	0	187	206	208	--	.90	--	785	286		
1100	5050		67	22.0C	7.5	1300	3.14	2.55	7.00		.00	3.06	4.29	5.87			--	762	132	4.2	
							25	20	55			23	32	44							
		80 0770.00			DELTA MENDOTA CANAL TO MENDOTA POOL																
12/11/74	5050	10.90	10.7	49.1F	8.3	340	25	13	58	--	0	87	93	54	4.5	.40	--	318	119		X
1020	5050		94	9.5C	8.0	530	1.25	1.13	2.52		.00	1.43	1.94	1.52	.07		--	291	48	2.3	
							26	23	51			29	39	31	1						
04/08/75	5050	15.20	10.3	55.4F	7.5	310	24	12	42	--	0	85	59	56	--	.20	--	259	110		X
1030	5050		98	13.0C	7.9	425	1.20	1.00	1.83		.00	1.39	1.23	1.58			--	235	41	1.7	
							30	25	45			33	29	38							
05/28/75	5050		7.4	71.5F	7.1	320	17	9.8	28	--	0	73	31	35	--	.10	--	177	83		
0800	5050		84	21.9C	8.0	317	.85	.81	1.22		.00	1.20	.65	.99			--	157	23	1.3	
							30	28	42			42	23	35							
09/11/75	5050	15.50	7.4	73.4F	7.6	390	25	13	46	--	0	107	50	56	--	.20	--	263	117		
1100	5050		86	23.0C	8.0	468	1.25	1.07	2.00		.00	1.75	1.04	1.58			--	243	29	1.9	
							29	25	46			40	24	36							
		80 0936.30			BURKHARD DRAIN																
07/23/75	5050		7.9	72 F	8.2	1825	--	--	--	--	0	225	--	--	--	--	--			104AF	
0930	5001	3	90	22 C	8.2						.00	3.69					19.4				5
		80 0955.30			TILE DRAIN NEAR PATTERSON																
07/22/75	5050		1.7	68 F	7.3	2923	--	--	--	--	0	398	--	--	--	--	--			1AF	
1255	5001	1	19	20 C	7.3						.00	6.52					24.8				5
09/30/75	5050		4.5	68.0F	7.4	3000	--	--	--	--	0	371	--	--	--	--	--			1AF	
1400	5001	1	49	20.0C							.00	6.08					--				5
		80 3115.00			STANISLAUS RIVER AT KOETITZ RANCH																
12/19/74	5050	32.64	10.6	50.9F	7.2	70	7.6	3.4	3.8	--	0	40	4.0	1.4	1.5	.00	--	59	33		E
1510	5050		95	10.5C	7.7	83	.38	.28	.17		.00	.66	.08	.04	.02		--	41	0	0.3	T
							46	34	20			83	10	5	3						
04/03/75	5050	32.79	10.5	51.8F	7.3	85	11	5.5	4.6	--	0	60	6.4	1.6	--	.10	--	63	50		X
1140	5050		95	11.0C	7.7	120	.55	.45	.20		.00	.98	.13	.05			--	59	1	0.3	
							46	38	17			84	11	4							
05/28/75	5050	36.79	9.5	63.5F	7.3	35	4.3	2.6	2.6	--	0	24	1.3	2.1	--	.00	--	36	21		EA
1600	5050		99	17.5C	7.2	50	.21	.21	.11		.00	.39	.03	.06			--	25	2	0.2	T
							40	40	21			81	6	13							
06/25/75	5050						--	--	--	--	--	--	--	--	--	--	--				
1205	5001																10.6				

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. W 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				
	80 3115.00				STANISLAUS RIVER AT KOETITZ RANCH												CONTINUED				
07/23/75	5050		8.1	75 F	7.5	197	--	--	--	--	0	86	--	--	--	--	--			7AF	
1110	5001		95	24 C	7.5						.00	1.41					19.6				
		3																			S
08/27/75	5050	28.62	8.0	73.4F	7.5	160	14	9.0	9.5	--	0	86	8.1	6.4	--	.00	--	114	72		
1500	5050		93	23.0C	7.7	181	.70	.74	.41		.00	1.41	.17	.18			--	89	2	0.5	T
							38	40	22			80	10	10							
	80 3185.00				STANISLAUS RIVER AT KNIGHTS FERRY																
06/18/75	5050		9.9	62.6F	8.1	28	--	--	--	--	0	17	--	--	--	--	--	27			E
1600	5050		103	17.0C	7.4	33					.00	.28					--				
																					S
09/17/75	5050		8.6	73.4F	7.8	65	--	--	--	--	0	35	--	--	--	--	--	55			E
1700	5050		100	23.0C	7.2	68					.00	.57					--				
	80 4105.00				TUOLUMNE RIVER AT TUOLUMNE CITY																
12/19/74	5050	26.59	10.0	52.7F	7.1	140	11	4.5	17	--	0	42	4.1	28	2.4	.00	--	113	46		X
1445	5050		92	11.5C	7.7	183	.55	.37	.74		.00	.69	.09	.79	.04		--	88	12	1.1	T
							33	22	45			43	6	49	2						
04/03/75	5050	25.44	9.5	55.8F	7.4	230	18	7.3	29	--	0	69	5.9	58	--	.10	--	159	75		X
1230	5050		90	13.2C	7.8	306	.90	.60	1.26		.00	1.13	.12	1.41			--	144	19	1.5	
							33	22	46			42	5	53							
05/28/75	5050	24.10	7.5	75.2F	7.3	400	26	10	42	--	0	89	8.4	79	--	.10	--	257	106		
1400	5050		88	24.0C	7.9	434	1.30	.82	1.83		.00	1.46	.17	2.23			--	209	33	1.8	
							33	21	46			38	4	58							
06/25/75	5050		9.1	68 F			--	--	--	--	0	105	--	--	--	--	--			6C	
1125	5001		100	20 C	7.7	530					.00	1.72					19.0				
																					S
07/23/75	5050		7.1	75 F	7.5	563	--	--	--	--	0	117	--	--	--	--	--			8AF	
1005	5001		84	24 C	7.5						.00	1.92					28.0				
		1																			S
08/27/75	5050	23.45	8.2	75.2F	7.6	600	34	14	61	--	0	125	9.2	116	--	.10	--	364	141		
1330	5050		97	24.0C	7.7	605	1.70	1.15	2.65		.00	2.05	.19	3.27			--	296	40	2.2	
							31	21	48			37	3	59							
	80 4175.00				TUOLUMNE RIVER AT LA GRANGE BRIDGE																
04/04/75	5050		10.8	48.2F	7.0	30	4.4	1.7	1.8	--	0	21	5.4	1.0	--	.00	--	25	18		X
0800	5050		94	9.0C	7.4	46	.22	.14	.08		.00	.34	.11	.03			--	25	1	0.2	
							50	32	18			71	23	6							
05/29/75	5050		10.0	51.8F	7.0	30	4.0	2.4	1.8	--	0	24	2.6	1.3	--	.00	--	33	20		X
0630	5050		91	11.0C	7.0	49	.20	.20	.08		.00	.39	.05	.04			--	24	1	0.2	T
							42	42	17			81	10	8							
06/04/75	5050		9.4	69.8F	7.1	50	--	--	--	--	0	26	--	--	--	--	--	40			E
1300	5050		105	21.0C	7.3	55					.00	.43					--				
																					S
09/24/75	5050		10.5	55.9F	6.8	32	5.2	1.0	1.8	--	0	21	3.4	.0	--	.00	--	26	17		X
1400	5050		100	13.3C	7.7	43	.26	.08	.08		.00	.34	.07	.00			--	22	0	0.2	
							62	19	19			83	17								
	80 4921.30				TURLOCK SEWAGE TREATMENT PLANT																
06/24/75	5050		3.4	70 F		685	--	--	--	--	20	247	--	--	--	--	--			25C	
1255	5001		38	21 C	9.0						.67	4.05					26.0				
																					S
07/22/75	5050		5.8	77 F	8.1	621	--	--	--	--	23	270	--	--	--	--	--			16AF	
1145	5001		70	25 C	8.9						.77	4.43					--				
		1																			S
09/30/75	5050		11.6	73 F	8.8	740	--	--	--	--	0	303	--	--	--	--	--			17AF	
1345	5001		134	23 C	8.8						.00	4.97					--				
		1																			S
	80 4942.30				MODESTO SEWAGE TREATMENT PLANT																
06/24/75	5050		3.0	72 F			--	--	--	--	0	288	--	--	--	--	--			32C	
1405	5001		34	22 C	8.0	1650					.00	4.72					59.0				
																					S
07/22/75	5050		9.9	82 F	9.2	1530	--	--	--	--	39	229	--	--	--	--	--			344F	
1300	5001		125	28 C	9.2						1.30	3.75					.6				
		3																			S
09/30/75	5050		0.0	77 F	7.4	1510	--	--	--	--	0	418	--	--	--	--	--			128AF	
1455	5001			25 C	7.4						.00	6.85					--				
		3																			S
	80 4974.30				TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 2																
06/25/75	5050		12.9	63 F			--	--	--	--	0	74	--	--	--	--	--			7C	
1035	5001		133	17 C	7.8	230					.00	1.21					15.4				
																					S
07/23/75	5050		8.8	73 F	8.0	230	--	--	--	--	0	80	--	--	--	--	--			4AF	
0940	5001		102	23 C	8.2						.00	1.31					--				
		3																			S

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

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				MILLIGRAMS PER LITER					
												PERCENT REACTANCE VALUE									
80 4975.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 5																					
07/22/75	S050			75 F	8.2	432	--	--	--	--	0	129	--	--	--	--	--			6AF	
1405	S001			24 C	7.7						.00	2.11					21.6				
		2																			5
09/30/75	S050		7.3	70 F	8.0	522	--	--	--	--	0	164	--	--	--	--	--			11AF	
1545	S001		81	21 C	8.0						.00	2.69					--				
		2																			5
80 4976.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 6 AND 7																					
06/24/75	S050		7.5	67.1F	7.8	317	--	--	--	--	--	--	--	--	--	--	--			4C	
1155	S001		81	19.5C													26.0				
07/22/75	S050		6.8	73 F	7.5	375	--	--	--	--	0	131	--	--	--	--	--			3AF	
1100	S001		79	23 C	7.5						.00	2.15					26.4				
		1																			2S
09/30/75	S050		7.9	70 F	7.8	401	--	--	--	--	0	112	--	--	--	--	--			10AF	
1250	S001		88	21 C	7.8						.00	1.84					21.0				
		1																			5
80 5131.00 MERCED RIVER AT MILLIKEN BRIDGE																					
12/19/74	S050		10.0	51.8F	7.0	70	8.5	2.6	7.6	--	0	41	5.3	3.2	3.3	.00	--	72	32		EX
1330	S050		91	11.0C	7.6	97	.42	.21	.33		.00	.67	.11	.09	.05		--	51	0	0.6	T
							44	22	34			73	12	10	5						
04/03/75	S050		10.2	54.5F	7.3	55	7.4	2.6	4.2	--	0	36	3.6	1.9	--	.00	--	36	29		X
0940	S050		96	12.5C	7.4	79	.37	.21	.18		.00	.59	.07	.05			--	37	0	0.3	
							49	28	24			83	10	7							
05/28/75	S050		8.1	69.8F	8.1	70	7.1	3.0	4.2	--	0	37	7.2	2.9	--	.00	--	53	30		
1200	S050		90	21.0C	7.5	79	.35	.25	.18		.00	.61	.15	.08			--	43	0	0.3	
							45	32	23			73	18	10							
06/24/75	S050		8.1	64 F	6.9	78	--	--	--	--	0	36	--	--	--	--	--			5C	
0900	S001		85	18 C	6.9						.00	.59					11.4				
																					5
07/22/75	S050		7.2	84 F	7.2	150	--	--	--	--	0	58	--	--	--	--	--			4AF	
0910	S001		93	29 C	7.2						.00	.95					18.6				
		3																			5
08/27/75	S050		8.1	73.4F	7.2	115	9.2	4.4	9.0	--	0	55	5.1	5.9	--	.00	--	80	41		
1200	S050		94	23.0C	7.5	123	.46	.36	.39		.00	.90	.11	.17			--	61	0	0.6	T
							38	30	32			76	9	14							
80 5166.50 CANAL CREEK AT OAKDALE ROAD																					
02/05/75	S050		10.2	50.9F	7.3	45	5.7	2.7	4.1	--	0	28	5.6	3.0	--	.20	--	89	25		EX
1730	S050	15E	92	10.5C	6.5	90	.28	.22	.18		.00	.46	.12	.08			--	35	2	0.4	T
							41	32	26			70	18	12							
03/12/75	S050		10.3	59.4F	7.2	55	5.6	2.4	3.6	--	0	27	5.8	1.7	--	.10	--	38	24		
1530	S050	25	103	15.2C	6.4	68	.28	.20	.16		.00	.44	.12	.05			--	32	2	0.3	
							44	31	25			72	20	8							
04/16/75	S050		10.8	55.0F	7.9	50	6.6	1.8	2.8	--	0	29	3.1	1.4	--	.00	--	34	24		X
1630	S050	150	102	12.8C	7.2	64	.33	.15	.12		.00	.48	.06	.04			--	30	0	0.2	
							55	25	20			83	10	7							
80 6369.50 OUTCHMAN CREEK AT BAXTER ROAD																					
02/05/75	S050	4.10	8.5	48 F	7.2	90	9.2	5.6	13	--	0	58	10	4.7	--	.20	--	129	46		EX
0650	S050		74	9 C	7.3	144	.46	.46	.57		.00	.95	.21	.13			--	71	0	0.0	T
							31	31	30			74	16	10							
03/12/75	S050		8.1	53.0F	7.9	140	12	8.8	18	--	0	100	8.1	7.2	--	.20	--	142	66		EX
0720	S050	2.6	75	11.7C	7.4	201	.60	.72	.78		.00	1.64	.17	.20			--	103	0	1.0	T
							29	34	37			82	8	10							
04/16/75	S050	3.77	9.0	53.6F	8.3	212	18	14	24	--	0	158	1.0	11	--	.00	--	164	101		X
0755	S050		84	12.0C	8.1	296	.90	1.15	1.04		.00	2.59	.02	.31			--	146	0	1.0	
							29	37	34			89	1	11							
80 6399.50 DEADMAN CREEK AT BAXTER ROAD																					
02/05/75	S050	4.50	10.1	48 F	7.2	70	7.2	3.6	10	--	0	44	12	2.8	--	.20	--	108	33		EX
0705	S050		88	9 C	7.2	112	.36	.30	.44		.00	.72	.25	.08			--	57	0	0.0	T
							33	27	40			69	24	8							
03/12/75	S050		9.1	52.9F	7.5	126	11	7.9	16	--	0	87	9.5	5.4	--	.10	--	121	60		X
0800	S050	11	84	11.6C	7.5	181	.55	.65	.70		.00	1.43	.20	.15			--	93	0	0.9	T
							29	34	37			80	11	8							
04/16/75	S050	3.08	9.5	54.5F	7.9	172	15	9.8	20	--	0	122	8.2	7.7	--	.00	--	132	78		X
0815	S050		90	12.5C	8.0	234	.75	.81	.87		.00	2.00	.17	.22			--	121	0	1.0	
							31	33	36			84	7	9							
80 7040.00 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																					
12/19/74	S050	17.49	9.5	53.6F	7.2	400	29	16	82	--	0	115	82	96	4.8	.40	--	389	142		X
1545	S050		88	12.0C	8.1	686	1.45	1.39	3.57		.00	1.88	1.71	2.71	.08		--	368	40	3.0	
							23	22	56			29	27	42	1						
04/03/75	S050	18.71	9.1	55.4F	7.9	490	30	14	68	--	0	98	81	77	--	.40	--	338	135		
1100	S050		86	13.0C	8.0	602	1.50	1.20	2.96		.00	1.61	1.69	2.17			--	319	55	2.5	
							27	21	52			29	31	40							
05/20/75	S050	17.53	9.0	75.2F	7.9	500	27	15	61	--	0	104	50	80	--	.20	--	342	130		
1330	S050		106	24.0C	8.1	573	1.35	1.23	2.65		.00	1.70	1.21	2.26			--	292	44	2.3	
							26	24	51			33	23	44							

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. 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				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					
80 7040.00 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE CONTINUED																					
06/25/75	5050						--	--	--	--	--	--	--	--	--	--	--				
0850	5001																15.2				
07/23/75	5050		6.1	77 F	7.9	931	--	--	--	--	0	141	--	--	--	--	--			744F	
0825	5001		73	25 C	7.9						.00	2.31					18.4				
		3																			S
08/27/75	5050	15.01	7.1	75.2F	7.5	800	42	18	88	--	0	154	77	119	--	.30	--	457	181		
1400	5050		84	24.0C	7.5	774	2.10	1.48	3.83		.00	2.52	1.60	3.36			--	420	53	2.9	
							28	20	52			34	21	45							
80 7080.00 SAN JOAQUIN RIVER NEAR GRAYSON																					
12/19/74	5050		9.5	51.8F	7.4	800	44	27	141	--	0	166	159	150	7.6	.80	--	647	221		X
1425	5050		86	11.0C	8.2	1100	2.20	2.22	6.13		.00	2.72	3.31	4.23	.12		--	611	85	4.1	
							21	21	58			26	32	41	1						
04/03/75	5050		9.4	55.4F	7.7	550	33	17	78	--	0	109	105	85	--	.50	--	394	153		
1250	5050		89	13.0C	8.0	682	1.65	1.41	3.39		.00	1.79	2.19	2.40			--	372	64	2.7	
							26	22	53			28	34	38							
05/28/75	5050		10.7	73.4F	8.2	550	27	16	67	--	0	106	71	82	--	.20	--	348	134		
1430	5050		124	23.0C	8.1	600	1.35	1.32	2.91		.00	1.74	1.48	2.31			--	315	47	2.5	
							24	24	52			31	27	42							
06/25/75	5050		8.0	66 F			--	--	--	--	0	112	--	--	--	--	--			34C	
0845	5001		86	19 C	7.9	524					.00	1.84					11.6				
																					S
07/23/75	5050		6.8	75 F	7.7	928	--	--	--	--	0	178	--	--	--	--	--			60AF	
0905	5001		80	24 C	7.7						.00	2.92					17.0				
		3																			S
08/27/75	5050		6.7	75.2F	7.6	800	40	21	90	--	0	162	88	111	--	.30	--	465	188		
1300	5050		79	24.0C	7.4	804	2.00	1.73	3.92		.00	2.66	1.83	3.13			--	430	54	2.9	
							26	23	51			35	24	41							
80 7200.00 SAN JOAQUIN RIVER AT PATTERSON BRIDGE																					
06/24/75	5050		8.6	68 F	7.9	494	--	--	--	--	--	--	--	--	--	--	--			26C	
1230	5001		94	20 C													13.4				
07/22/75	5050		8.9	82 F	8.1	756	--	--	--	--	0	132	--	--	--	--	--			54AF	
1220	5001		113	28 C	8.1						.00	2.16					16.8				
		3																			S
80 7250.00 SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE																					
06/24/75	5050		8.1	68 F	7.9	464	--	--	--	--	--	--	--	--	--	--	--			29C	
1140	5001		89	20 C													13.0				
07/22/75	5050		8.7	82 F	8.1	706	--	--	--	--	0	124	--	--	--	--	--			50AF	
1140	5001		110	28 C	8.1						.00	2.03					16.4				
		3																			S
80 7375.00 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																					
12/19/74	5050	55.69	10.6	50.0F	7.6	1450	87	53	274	--	0	244	329	338	6.4	1.50	--	1270	437		X
1240	5050		94	10.0C	8.2	2060	4.34	4.39	11.92		.00	4.00	6.85	9.53	.10		--	1209	237	5.7	
							21	21	58			20	33	47							
04/03/75	5050	57.87	8.8	55.4F	7.5	1002	67	32	160	--	0	162	226	208	--	1.10	--	828	300		X
0830	5050		83	13.0C	8.1	1330	3.34	2.65	6.96		.00	2.66	4.71	5.87			--	774	167	4.0	
							26	20	54			20	36	44							
05/21/75	5050			68.0F	8.0	900	68	15	133	4.6	0	159	124	179	6.5	.30	--	630	232		
1315	5050			20.0C	8.1	1080	3.39	1.23	5.79	.12	.00	2.61	2.58	5.05	.10		18.0	627	101	3.8	
							32	12	55	1		25	25	49	1						
05/28/75	5050	56.26	10.3	73.4F	8.2	1000	48	28	128	--	0	151	132	176	--	.40	--	635	237		
1100	5050		119	23.0C	8.0	1090	2.40	2.30	5.57		.00	2.47	2.75	4.96			--	587	112	3.6	
							23	22	54			24	27	49							
06/24/75	5050		7.6	70 F	8.0	1145	--	--	--	--	--	--	--	--	--	--	--			35C	
1035	5001		85	21 C													15.4				
07/22/75	5050		7.3	79 F	7.9	813	--	--	--	--	0	132	--	--	--	--	--			38AF	
1035	5001		89	26 C	7.9						.00	2.16					17.8				
		2																			S
08/20/75	5050			75 F	7.4	1000	55	22	120	5.6	0	152	131	161	13.0	.50	--	629	230		
1130	5050			24 C	7.7	1030	2.74	1.81	5.22	.14	.00	2.49	2.73	4.54	.21		20.0	603	103	3.5	
							28	18	53	1		25	27	46	2						
08/27/75	5050	57.11	7.4	73.4F	7.6	900	46	23	112	--	0	161	122	141	--	.50	--	569	211		
1000	5050		86	23.0C	7.7	937	2.30	1.89	4.87		.00	2.64	2.54	3.98			--	524	78	3.4	
							25	21	54			29	28	43							
80 7710.00 SAN JOAQUIN RIVER NEAR MENDOTA																					
12/11/74	5050		11.5	48.2F	8.3	300	24	12	50	--	0	105	50	56	2.0	.20	--	266	110		X
1040	5050		100	9.0C	8.0	470	1.20	1.00	2.18		.00	1.72	1.04	1.58	.03		--	246	24	2.1	
							27	23	50			39	24	36	1						
04/08/75	5050	3.08	10.9	56.3F	7.6	320	24	12	42	--	0	85	60	51	--	.20	--	261	110		X
1000	5050		105	13.5C	7.9	429	1.20	1.00	1.83		.00	1.39	1.25	1.44			--	231	41	1.7	
							30	25	45			34	31	35							
05/28/75	5050	3.72	9.0	71.0F	8.0	382	23	8.6	38	--	0	77	39	51	--	.10	--	193	93		
0830	5050		102	21.6C	8.0	393	1.15	.71	1.65		.00	1.26	.81	1.44			--	198	30	1.7	
							33	20	47			36	23	41							
09/11/75	5050	3.46	7.3	73.4F	7.6	330	21	12	40	--	0	98	43	47	--	.20	--	232	104		
1000	5050		85	23.0C	8.0	411	1.05	.99	1.74		.00	1.61	.90	1.33			--	211	22	1.7	
							28	26	46			42	23	35							

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q 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									MILLIGRAMS PER LITER						
							MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER															
							PERCENT REACTANCE VALUE															
B0 7885.00																						
							SAN JOAQUIN RIVER AT FRIANT DAM															
12/10/74	5050	1.84	10.3	49.1F	6.8	40	4.2	1.3	4.4	--	0	20	3.3	3.0	2.0	.00	--	44	16			EX
1400	5050		91	9.5C	7.1	53	.21	.11	.19		.00	.33	.07	.08	.03		--	28	0	0.5		T
							41	22	37			65	14	16	6							
04/02/75	5050	2.07	10.0	50.0F	7.0	52	6.7	1.8	7.4	--	0	34	1.8	4.6	--	.10	--	40	24			X
0720	5050		89	10.0C	7.3	80	.33	.15	.32		.00	.56	.04	.13			--	39	0	0.7		
							41	19	40			77	5	18								
05/27/75	5050	2.47	12.0	53.0F	7.5	100	3.9	1.1	4.8	--	0	20	1.0	4.2	--	.00	--	35	14			X
1000	5050		111	11.7C	7.2	51	.19	.09	.21		.00	.33	.02	.12			--	25	0	0.6		T
							39	18	43			70	4	26								
09/16/75	5050	2.16	6.4	52.7F	6.8	30	3.9	.6	3.6	--	0	16	2.5	2.0	--	.00	--	36	12			EX
0700	5050		59	11.5C	7.6	45	.19	.05	.16		.00	.26	.05	.06			--	20	0	0.4		T
							48	13	40			70	14	16								
B0 7886.50																						
							SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE															
10/08/74	5050		11.0	49.1F	6.8	30	3.7	.7	3.0	--	0	18	.2	.5	--	.00	--	40	12			EX
0615	5050		97	9.5C	7.5	43	.18	.06	.13		.00	.30	.00	.01			--	17	0	0.4		T
							49	16	35			97		3								
07/09/75	5050		9.3	52.7F	6.8	30	--	--	--	--	0	14	--	--	--	--	--	30				E
0700	5050		86	11.5C	6.8	36					.00	.23					--					
																						S
B3 1158.10																						
							STANISLAUS RIVER BELOW TULLOCK DAM															
12/20/74	5050	12.92	11.1	50.9F	7.4	55	8.7	1.8	2.5	--	0	34	3.1	.0	.8	.00	--	44	29			X
0930	5050		100	10.5C	7.8	70	.43	.15	.11		.00	.56	.06	.00	.01		--	34	1	0.2		T
							62	22	16			89	10		2							
04/04/75	5050		11.6	48.2F	7.3	65	8.4	4.4	3.5	--	0	47	6.4	1.0	--	.10	--	52	39			X
0700	5050		101	9.8C	7.6	94	.42	.36	.15		.00	.77	.13	.03			--	47	1	0.2		
							45	39	16			83	14	3								
05/29/75	5050		11.0	55.4F	8.4	32	26	2.1	2.0	--	0	20	1.2	1.0	--	.00	--	27	15			E
0830	5050		105	13.0C	7.0	37	1.30	.17	.09		.00	.33	.02	.03			--	42	57	0.1		T
							83	11	6			87	5	8								
09/17/75	5050	15.50	10.4	77.0F	7.9	90	8.6	4.2	4.0	--	0	48	9.4	2.0	--	.00	--	64	39			
1630	5050		126	25.0C	7.7	96	.43	.35	.17		.00	.79	.20	.06			--	52	0	0.3		
							45	37	18			75	19	6								
B3 1400.50																						
							STANISLAUS RIVER AT PARROTTS FERRY BRIDGE															
05/29/75	5050		11.2	51.8F	8.4	30	4.1	.7	1.8	--	0	16	3.3	.9	--	.00	--	53	13			E
0800	5050		104	11.0C	7.6	34	.20	.06	.08		.00	.26	.07	.03			--	19	0	0.2		T
							59	18	24			72	19	8								
06/18/75	5050		10.0	55.4F	8.3	25	--	--	--	--	0	16	--	--	--	--	--	30				E
1130	5050		97	13.0C	7.4	30					.00	.26					--					
																						S
09/17/75	5050		9.4	61.7F	7.3	35	5.6	.5	1.8	--	0	23	2.5	.0	--	.00	--	31	16			E
1230	5050		98	16.5C	7.7	41	.28	.04	.08		.00	.38	.05	.00			--	22	0	0.2		T
							70	10	20			88	12									
B3 2110.10																						
							STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PAR															
06/18/75	5050		9.9	53.6F	6.8	18	--	--	--	--	0	10	--	--	--	--	--	24				E
1330	5050		93	12.0C	7.0	20					.00	.16					--					
																						S
09/17/75	5050		8.2	66.2F	7.2	28	--	--	--	--	0	17	--	--	--	--	--	24				E
1400	5050		90	19.0C	7.7	31					.00	.28					--					
																						S
B3 3255.00																						
							STANISLAUS RIVER MIDDLE FORK AT REARDSLEY															
06/18/75	5050		9.9	49.6F	8.3	25	--	--	--	--	0	18	--	--	--	--	--	34				EA
0900	5050		98	9.8C	7.4	34					.00	.30					--					
																						S
09/17/75	5050		8.6	60.8F	7.2	35	--	--	--	--	0	24	--	--	--	--	--	33				EA
0930	5050		98	16.0C	7.6	46					.00	.39					--					
																						S
B3 3480.10																						
							STANISLAUS RIVER MIDDLE FORK AT DARDANELLE															
06/18/75	5050		9.9	40.8F	8.1	20	--	--	--	--	0	20	--	--	--	--	--	33				EX
0630	5050		95	4.9C	7.5	32					.00	.33					--					
																						S
09/17/75	5050		8.3	58.1F	7.0	20	--	--	--	--	0	16	--	--	--	--	--	20				X
0800	5050		100	14.5C	7.7	29					.00	.26					--					
																						S
B4 1265.50																						
							TUOLUMNE RIVER ABOVE DON PEDRO RESERVOIR															
12/20/74	5050		11.6	48.2F	6.8	20	2.2	.4	1.2	--	0	10	1.3	.2	.1	.00	--	16	7			E
1100	5050		102	9.0C	6.9	20	.11	.03	.05		.00	.16	.03	.01	.00		--	10	0	0.2		T
							58	16	26			80	15	5								
B4 1290.10																						
							TUOLUMNE RIVER AT WARDS FERRY BRIDGE															
05/29/75	5050		10.9	53.6F	7.2	20	1.4	.8	1.4	--	0	10	.0	1.4	--	.00	--	21	7			E
0915	5050		104	12.0C	7.2	20	.07	.07	.06		.00	.16	.00	.04			--	10	0	0.2		T
							35	35	30			80		20								
06/04/75	5050		11.0	11.7F	6.8	12	--	--	--	--	0	6	--	--	--	--	--	18				E
1100	5050		51	11.3C	6.8	15					.00	.10					--					
																						S
09/24/75	5050		8.1	80.6F	7.4	50	4.7	1.8	1.9	--	0	23	3.3	.0	--	.00	--	30	19			
1230	5050		103	27.0C	8.2	49	.23	.15	.08		.00	.38	.07	.00			--	23	0	0.2		T
							50	33	17			84	16									

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD PH	FIELD EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCM	TURB SAR	REM
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER														
							MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE														
B4 1680.00 TUOLUMNE RIVER ABOVE EARLY INTAKE																					
06/04/75 0900	5050 5050		10.6 101	49.6F 9.8C	6.8 6.6	10 11	--	--	--	--	0 .00	3 .05	--	--	--	--	-- --	15			E S
09/24/75 0930	5050 5050		9.6 100	56.8F 13.8C	6.8 8.1	9 10	--	--	--	--	0 .00	5 .08	--	--	--	--	-- --	6			S
B4 1850.10 TUOLUMNE RIVER AT TUOLUMNE MEADOWS																					
06/04/75 0630	5050 5050		9.5 95	35.8F 2.1C	6.8 6.7	4 10	--	--	--	--	0 .00	2 .03	--	--	--	--	-- --	13			EX
09/24/75 0700	5050 5050		7.9 93	46.9F 8.3C	7.0 7.8	18 30	--	--	--	--	0 .00	9 .15	--	--	--	--	-- --	17			X S
B5 R 735.7 016.2 1 LAKE MCCLURE NEAR MCCLURE POINT																					
07/10/75	5050 5050		10.7		8.3 8.2	53	5.2 .26 50	1.9 .16 31	1.9 .08 15	.7 .02 4	0 .00	24 .39 87	2.6 .05 11	.5 .01 2	.1 .00	.00	-- --	33 25	21 2	0.2	T
B5 R 736.7 007.9 1 LAKE MCCLURE AT BAGBY																					
09/03/75 1100	5050 5050		8.7		7.0 7.3	48	4.8 .24 53	1.1 .09 20	2.3 .10 22	.6 .02 4	0 .00	20 .33 83	1.8 .04 10	1.0 .03 8	--	.00	-- --	38 21	17 0	0.2	E T
B5 1200.00 MERCED RIVER BELOW EXCHEQUER DAM																					
12/20/74 1330	5050 5050		9.7 92	54.5F 12.5C	6.8 7.1	35 42	4.2 .21 48	1.8 .15 34	1.8 .08 18	--	0 .00	18 .30 77	2.6 .05 13	1.0 .03 8	.8 .01 3	.00	-- --	30 21	18 3	0.2	E T
04/04/75 1010	5050 5050		11.9 105	49.1F 9.5C	7.4 7.5	45 60	6.3 .31 55	1.8 .15 27	2.3 .10 18	--	0 .00	27 .44 83	3.3 .07 13	.8 .02 4	--	.00	-- --	36 28	23 1	0.2	X T
05/29/75 0930	5050 5050		9.3 87	53.6F 12.0C	7.2 7.1	35 52	4.5 .22 43	2.2 .18 35	2.6 .11 22	--	0 .00	24 .39 78	3.3 .07 14	1.4 .04 8	--	.00	-- --	45 26	20 1	0.3	EX T
09/03/75 0800	5050 5050	2046	9.0 86	55.0F 12.8C	7.5 7.0	30	2.8 .14 48	1.0 .08 28	1.4 .06 21	.2 .01 3	0 .00	12 .20 87	1.5 .03 13	.0 .00	--	.00	-- --	21 13	11 1	0.2	T
B5 1320.00 MERCED RIVER AT BAGBY																					
11/13/74 1530	5050 5050		11.2 129	70.7F 21.5C	7.1 7.6	63 92	10 .50 60	1.7 .14 17	4.4 .19 23	--	0 .00	38 .62 86	.0 .00	3.7 .10 14	--	.00	-- --	55 38	32 1	0.3	X T
05/29/75 1100	5050 5050		9.7 111	69.8F 21.0C	7.1 7.2	30 36	3.6 .18 56	.7 .06 19	1.9 .08 25	--	0 .00	15 .25 78	.0 .00	2.4 .07 22	--	.00	-- --	28 16	12 0	0.2	E T
B5 1410.10 MERCED RIVER ABOVE BRICEBURG																					
11/13/74 1330	5050 5050		12.0 110	56.0F 14.0C	7.3 7.7	40 68	6.8 .34 56	1.2 .10 16	4.0 .17 28	--	0 .00	27 .44 68	5.4 .11 17	3.4 .10 15	--	.00	-- --	44 34	22 0	0.4	X T
B5 1517.10 MERCED RIVER BELOW EL PORTAL																					
11/13/74 1130	5050 5050		11.1 101	47.5F 8.6C	7.3 7.4	37 50	4.9 .24 59	.4 .03 7	3.2 .14 34	--	0 .00	20 .33 87	.0 .00	1.6 .05 13	--	.00	-- --	36 20	14 0	0.4	EX T
B5 1519.50 MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140																					
11/13/74 0930	5050 5050		8.1 76	45.0F 7.2C	6.8 6.9	30 42	3.5 .17 47	.8 .07 19	2.8 .12 33	--	0 .00	14 .23 77	.0 .00	2.6 .07 23	--	.00	-- --	31 17	12 1	0.4	EX T
B5 1700.00 MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE																					
11/13/74 0715	5050 5050	1.37	11.3 101	40.6F 4.8C	7.0 7.1	23 34	3.0 .15 54	.4 .03 11	2.4 .10 36	--	0 .00	9 .15 63	.0 .00	3.3 .09 38	--	.00	-- --	29 14	9 2	0.3	EX T
B5 5152.10 BEAR CREEK ABOVE BEAR CREEK RESERVOIR																					
02/05/75 1445	5050 5050	300E	10.8 96	49.1F 9.5C	7.5 7.5	75 105	8.0 .40 37	5.6 .46 43	5.1 .22 20	--	0 .00	51 .84 79	10 .21 20	.8 .02 2	--	.10	-- --	96 55	43 1	0.3	EX T
03/12/75 1100	5050 5050	65	10.6 98	52.7F 11.5C	8.0 8.1	132 188	15 .75 39	10 .82 42	8.6 .37 19	--	0 .00	101 1.66 85	8.9 .19 10	4.0 .11 6	--	.10	-- --	108 96	81 0	0.4	X
04/16/75 1430	5050 5050	15	9.5 96	59.9F 15.5C	7.9 7.9	185 237	20 1.00 41	12 .99 41	10 .44 18	--	0 .00	127 2.08 86	9.0 .19 8	5.7 .16 7	--	.00	-- --	144 119	101 0	0.4	X
B5 6152.50 BURNS CREEK AT MERCED MARIPOSA COUNTY LINE																					
02/05/75 1625	5050 5050	50E	10.2 94	52.7F 11.5C	7.5 7.6	105 148	11 .55 36	7.9 .65 43	7.3 .32 21	--	0 .00	64 1.05 74	15 .31 22	2.0 .06 4	--	.10	-- --	121 75	60 8	0.4	EX T
03/12/75 0930	5050 5050	35	10.5 95	51.3F 10.7C	7.4 7.7	156 227	16 .80 33	13 1.07 45	12 .52 22	--	0 .00	112 1.84 79	15 .31 13	6.1 .17 7	--	.10	-- --	143 117	93 2	0.5	X
04/16/75 0915	5050	8.0	10.3 96	53.6F 12.0C	8.0 8.0	205 283	21 1.05 35	16 1.32 44	14 .61 20	--	0 .00	144 2.36 80	19 .40 14	6.8 .19 6	--	.00	-- --	158 148	118 1	0.6	X

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN 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	TURB SAR	REM
86 2020.10 OWENS CREEK ABOVE OWENS RESERVOIR																					
02/05/75	5050		10.8	50 F	7.8	115	14	8.0	8.2	--	0	84	8.9	2.7	--	.20	--	140	60		EX
1250	5050	75E	97	10 C	7.8	168	.70	.66	.36		.00	1.38	.19	.08			--	83	0	0.4	T
							41	38	21			84	12	5							
03/12/75	5050		11.0	52 F	8.2	210	26	17	15	--	0	171	9.2	8.2	--	.10	--	160	134		X
0920	5050	12	101	11 C	8.1	304	1.30	1.40	.65		.00	2.80	.19	.23			--	160	0	0.6	
							39	42	19			87	6	7							
04/16/75	5050		11.3	50.0F	8.4	249	30	17	16	--	0	186	7.9	9.3	--	.00	--	197	144		X
1245	5050		113	15.0C	8.2	326	1.50	1.40	.70		.00	3.05	.16	.26			--	172	0	0.6	
							42	39	19			88	5	7							
86 2204.10 MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR																					
02/05/75	5050		11.1	47.3F	7.4	60	8.3	7.0	5.0	--	0	51	7.7	1.2	--	.10	--	89	53		EX
1040	5050	200E	96	8.5C	7.4	104	.41	.65	.22		.00	.84	.16	.03			--	55	11	0.3	T
							32	51	17			82	16	3							
03/12/75	5050		11.3	54.0F	8.2	121	11	10	8.6	--	0	87	8.7	3.5	--	.10	--	100	69		X
1100	5050	121	107	12.2C	8.1	168	.55	.82	.37		.00	1.43	.18	.10			--	85	0	0.5	
							32	47	21			84	11	6							
04/16/75	5050		10.9	53.6F	8.2	135	15	9.8	8.6	--	0	99	6.1	3.6	--	.00	--	114	78		X
1200	5050		102	12.0C	7.9	184	.75	.81	.37		.00	1.62	.13	.10			--	92	0	0.4	
							39	42	19			88	7	5							
86 4200.00 CHOWCHILLA RIVER NR RAYMOND																					
12/11/74	5050	68.70	11.3	49.1F	7.4	230	28	6.1	28	--	0	88	5.4	56	.2	.10	--	222	95		X
1340	5050		101	9.5C	8.1	353	1.40	.50	1.22		.00	1.44	.11	1.58	.00		--	167	23	1.3	T
							45	16	39			46	4	50							
04/02/75	5050		11.2	50.9F	7.5	92	12	3.4	11	--	0	65	4.4	6.6	--	.00	--	95	44		EX
	5050		102	10.5C	7.8	133	.60	.28	.48		.00	1.07	.09	.19			--	69	0	0.7	T
							44	21	35			79	7	14							
05/28/75	5050	2.03	8.1	78.8F	7.8	165	16	1.4	13	--	0	70	.0	13	--	.00	--	119	46		E
1445	5050		101	26.0C	8.0	157	.80	.12	.57		.00	1.15	.00	.37			--	78	0	0.8	T
							54	8	38			76		24							
09/16/75	5050		7.6	69.8F	7.3	370	36	7.3	42	--	0	99	2.0	89	--	.00	--	283	120		X
0800	5050		86	21.0C	8.0	468	1.80	.60	1.83		.00	1.62	.04	2.51			--	225	39	1.7	T
							43	14	43			39	1	60							
86 7150.00 FRESNO RIVER NR OAULTON																					
12/11/74	5050		11.2	46.4F	7.2	110	12	2.7	15	--	0	51	4.3	20	.3	.10	--	110	41		X
1300	5050		96	8.0C	7.6	158	.60	.22	.65		.00	.84	.09	.56	.00		--	79	0	1.0	T
							41	15	44			56	6	38							
04/02/75	5050		11.2	51.8F	7.3	85	11	2.6	11	--	0	57	5.1	6.5	--	.00	--	80	38		X
0930	5050		103	11.0C	7.6	123	.55	.21	.48		.00	.93	.11	.18			--	64	0	0.8	
							44	17	39			76	9	15							
05/28/75	5050		9.4	71.6F	8.2	65	4.3	2.6	5.5	--	0	31	.0	4.2	--	.00	--	53	21		E
1410	5050		108	22.0C	7.7	70	.21	.21	.24		.00	.51	.00	.12			--	32	0	0.5	T
							32	32	36			81		19							
87 1180.00 SAN JOAQUIN RIVER BELOW KERCKHOFF NEAR PRATHER																					
10/10/74	5050	5.71		65.5F	7.1	28	2.3	.8	3.0	--	0	12	1.2	2.2	--	.00	--	16	9		
	5050			18.6C	7.0	29	.11	.07	.13		.00	.20	.02	.06			--	15	0	0.4	
							35	23	42			71	7	21							
12/10/74	5050		10.9	49.1F	7.1	25	2.7	.8	3.0	--	0	13	2.1	2.4	1.3	.10	--	35	10		EX
1100	5050		97	9.5C	6.9	36	.13	.07	.13		.00	.21	.04	.07	.02		--	19	0	0.4	T
							39	21	39			62	12	21	6						
05/27/75	5050		11.7	52.0F	7.2	33	.9	1.0	1.8	--	0	9	.0	2.8	--	.00	--	23	6		EX
1110	5050		108	11.1C	7.1	21	.04	.08	.08		.00	.15	.00	.08			--	11	0	0.3	T
							20	40	40			65		35							
09/16/75	5050		8.7	63.0F	6.7		2.6	.1	1.9	--	0	10	2.1	.0	--	.00	--	20	7		E
1400	5050		92	17.2C	7.7	23	.13	.01	.08		.00	.16	.04	.00			--	12	0	0.3	T
							59	5	36			80	20								
87 1188.00 KERCKHOFF RESERVOIR NEAR AUBERRY																					
10/10/74	5050			66.2F	7.0	26	2.8	.1	3.0	--	0	13	.6	.8	--	.00	--	14	7		
0001	5050			19.0C	6.9	28	.13	.01	.13		.00	.21	.01	.02			--	13	0	0.5	
							48	4	48			88	4	8							
87 1300.00 SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY																					
10/08/74	5050		8.6	49.5F	6.8	22	1.8	.6	1.8	--	0	10	.0	.5	--	.00	--	21	7		E
0830	5050		79	9.7C	7.2	24	.09	.05	.08		.00	.16	.00	.01			--	10	0	0.3	T
							41	23	36			94		6							
07/09/75	5050		10.0	54.5F	6.8	15	--	--	--	--	0	6	--	--	--	--	--	20			E
0930	5050		97	12.5C	6.6	18					.00	.10					--				
																					5
87 1406.00 MUSIC CREEK # 1 NEAR SHAVER LAKE																					
11/08/74	5050	0.44		44 F		46	3.4	.9	3.4	--	0	18	.5	2.3	.1	.00	--	42	12		E
1400	5050	.3		7 C	7.0	46	.17	.07	.15		.00	.30	.01	.06	.00		--	19	0	0.4	T
							44	18	38			61	3	16							
05/19/75	5050	0.99				35	3.1	.8	2.6	--	0	17	.6	2.4	--	.00	--	30	11		E
1020	5050				7.1	34	.15	.07	.11		.00	.28	.01	.07			--	18	0	0.3	T
							45	21	33			78	3	19							

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. 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				MILLIGRAMS PER LITER						MILLIGRAMS PER LITER				
											MILLIEQUIVALENTS PER LITER										
											PERCENT REACTANCE VALUE										
B7	1408.00				MUSIC CREEK # 2 NEAR SHAVER LAKE																
11/08/74	5050	1.06		43 F		56	4.6	1.3	4.2	--	0	28	.0	1.3	.2	.00	--	48	17		E
1500	5050	.1		6 C	7.3	55	.23	.11	.18		.00	.46	.00	.04	.00		--	25	0	0.4	T
							44	21	35			92		8							
05/19/75	5050	1.42				34	3.1	.8	2.6	--	0	17	.6	2.5	--	.00	--	33	11		E
0920	5050				7.1	34	.15	.07	.11		.00	.28	.01	.07			--	18	0	0.3	T
							45	21	33			78	3	19							
B7	1532.50				SAN JOAQUIN RIVER BELOW SHAKEFLAT CREEK																
10/08/74	5050		9.7	65.3F	7.3	50	4.5	.7	4.8	--	0	21	1.0	3.2	--	.00	--	42	14		E
1245	5050		114	18.5C	7.4	57	.22	.06	.21		.00	.34	.02	.09			--	25	0	0.6	T
							45	12	43			76	4	20							
07/09/75	5050		10.7	55.4F	8.1	15	--	--	--	--	0	7	--	--	--	--	--	16			E
1230	5050		106	13.0C	7.1	16					.00	.11					--				
																					S
B7	1910.00				FRIANT KERN CANAL AT FRIANT																
04/02/75	5050		12.0	49.6F	7.2	32	3.6	1.0	4.2	--	0	19	3.3	2.6	--	.00	--	20	13		X
0800	5050		107	9.8C	7.1	45	.18	.08	.18		.00	.31	.07	.07			--	24	0	0.5	
							41	18	41			69	16	16							
05/27/75	5050		12.1	54.0F	7.1	44	2.3	1.3	3.3	--	0	17	.0	2.8	--	.00	--	44	11		E
1030	5050		114	12.2C	7.4	38	.11	.11	.14		.00	.28	.00	.08			--	18	0	0.4	T
							31	31	39			78		22							
09/16/75	5050		8.5	69 F	7.4		2.6	.1	1.8	--	0	10	1.8	.0	--	.00	--	20	7		E
1300	5050		95	21 C	7.6	23	.13	.01	.08		.00	.16	.04	.00			--	11	0	0.3	T
							59	5	36			80	20								
B7	4250.50				SAN JOAQUIN RIVER SOUTH FORK AT MONO HOT SPRINGS																
10/09/74	5050		9.4	47.3F	6.9	20	2.3	.4	2.1	--	0	9	.6	.8	--	.10	--	20	7		EX
1200	5050		101	8.5C	7.0	27	.11	.03	.09		.00	.15	.01	.02			--	11	0	0.3	T
							48	13	39			83	6	11							
07/08/75	5050		7.4	62.6F	6.8	25	--	--	--	--	0	8	--	--	--	--	--	22			E
0930	5050	10	97	17.0C	6.8	24					.00	.13					--				
																					S
B8	1253.10				GRISWOLD CREEK ABOVE PANOCHE VALLEY																
12/03/74	5050						300	284	1380	19	0	566	3980	236	2.3	14.0	--	6530	1920		E
1030	5050				8.3	7700	14.97	23.36	60.03	.49	.00	9.28	82.86	6.66	.04		--	6494	1454	13.7	C
							15	24	61			9	84	7							
C0	1140.00				KINGS RIVER BELOW PEOPLES WEIR																
12/16/74	5050	2.73	10.7	50.0F	7.3	175	21	9.1	17	--	0	116	15	7.9	6.0	.00	--	150	90		X
1105	5050		95	10.0C	8.2	248	1.05	.75	.74		.00	1.90	.31	.22	.10		--	133	0	0.8	
							41	30	29			75	12	9	4						
03/04/75	5050	3.88	11.0	52.7F	7.0	38	4.8	1.4	3.5	--	0	22	3.1	2.5	--	.10	--	35	18		X
0930	5050		102	11.5C	7.3	51	.24	.12	.15		.00	.36	.06	.07			--	26	0	0.4	T
							47	24	29			73	12	14							
05/27/75	5050		9.9	62.6F	7.8	95	4.1	1.7	3.4	--	0	30	.0	2.4	--	.00	--	57	17		EX
0930	5050		103	17.0C	7.5	52	.20	.14	.15		.00	.49	.00	.07			--	26	0	0.4	T
							41	29	31			88		13							
09/03/75	5050		9.3	69.8F	7.2	40	3.9	1.3	2.8	--	0	20	2.0	2.0	--	.00	--	32	15		
1200	5050		105	21.0C	7.3	46	.19	.11	.12		.00	.33	.04	.06			--	22	0	0.3	T
							45	26	29			77	9	14							
C0	2185.00				KAWEAH RIVER BELOW TEMMINUS DAM																
12/16/74	5050		11.3	51.8F	7.9	120	19	4.5	10	--	0	79	8.1	6.4	1.4	.10	--	106	66		X
1120	5050		104	11.0C	8.0	167	.95	.37	.44		.00	1.29	.17	.18	.02		--	88	2	0.5	
							54	21	25			78	10	11	1						
03/04/75	5050		10.9	55.4F	7.6	125	19	4.2	11	--	0	83	8.2	8.2	--	.10	--	113	65		X
1030	5050		105	13.0C	7.7	176	.95	.35	.48		.00	1.36	.17	.23			--	92	0	0.6	
							53	20	27			77	10	13							
05/28/75	5050		11.1	57.2F	7.2	50	6.0	1.2	3.2	--	0	28	2.6	2.1	--	.00	--	49	20		E
0815	5050		109	14.0C	7.2	54	.30	.10	.14		.00	.46	.05	.06			--	29	0	0.3	T
							50	19	26			81	9	11							
09/02/75	5050		8.6	78.8F	7.3	75	8.3	2.3	4.2	--	0	38	2.3	4.0	--	.00	--	50	30		
1200	5050		107	26.0C	7.4	79	.41	.19	.18		.00	.62	.05	.11			--	40	0	0.3	
							53	24	23			79	6	14							
C0	2550.30				KAWEAH RIVER AT LEMONCOVE																
10/16/74	5050		9.8	70.0F	7.5	120	15	2.8	6.9	--	0	63	4.1	3.4	--	.00	--	72	49		
1430	5050		111	21.1C	7.8	126	.75	.23	.30		.00	1.03	.09	.10			--	63	0	0.4	
							59	18	23			84	7	8							
04/23/75	5050		11.2	57.0F	7.4	112	--	--	--	--	0	56	--	--	--	--	--	69			
1400	5050		110	13.9C	7.7	108					.00	.92					--				
																					S
08/06/75	5050		8.6	74.3F	7.1	50	--	--	--	--	0	25	--	--	--	--	--	38			E
1400	5050		102	23.5C	7.0	51					.00	.41					--				
																					S
C0	3195.00				TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE																
10/30/74	5050		7.8	64.4F	7.7	232	24	11	12	--	0	148	5.1	5.4	--	.00	--	151	108		
1500	5050		83	18.0C	7.6	270	1.20	.96	.52		.00	2.43	.11	.15			--	131	0	0.5	
							45	36	19			90	4	6							
04/09/75	5050		11.8	56.3F	7.8	180	--	--	--	--	0	73	--	--	--	--	--	150			X
1320	5050		115	13.5C	8.0	240					.00	1.20					--				
																					S

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	DO SAT	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	TURB SAR	REM
	C0	3195.00			TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE													CONTINUED			
08/20/75	5050		8.0	75.2F	7.0	145	--	--	--	--	0	93	--	--	--	--	--	97			
1430	5050		96	24.0C	7.6	168					.00	1.52					--				
																					S
09/02/75	5050	5.51	7.4	88.6F	7.2	200	20	5.6	9.8	--	0	105	1.2	5.9	--	.10	--	119	73		
1330	5050		94	27.0C	7.7	192	1.00	.46	.43		.00	1.72	.02	.17			--	94	0	0.5	T
							53	24	23			90	1	9							
	C0	3196.00			TULE RIVER BELOW SUCCESS DAM																
12/16/74	5050	0.37	7.7	59.9F	7.5	345	45	20	22	--	0	266	6.6	8.0	2.7	.10	--	256	198		X
1400	5050		78	15.5C	8.3	448	2.25	1.71	.96		.00	4.36	.14	.23	.04		--	236	0	0.7	
							46	35	20			91	3	5	1						
03/04/75	5050	3.05	11.9	53.2F	8.0	198	32	7.5	17	--	0	153	7.9	10	--	.20	--	173	111		X
1230	5050		111	11.8C	7.9	279	1.60	.62	.74		.00	2.51	.16	.28			--	150	0	0.7	
							54	21	25			85	5	9							
05/27/75	5050	3.94	11.2	57.2F	7.4	170	24	5.4	12	--	0	118	5.1	5.2	--	.10	--	144	82		X
1800	5050		110	14.0C	7.9	214	1.20	.44	.52		.00	1.93	.11	.15			--	110	0	0.6	T
							56	20	24			88	5	7							
	C0	5150.00			KERN RIVER NR BAKERSFIELD																
12/17/74	5050		11.7	49.1F	8.3	105	11	3.0	13	--	0	60	9.2	4.1	.9	.20	--	74	40		X
1010	5050		104	9.5C	8.0	134	.55	.25	.57		.00	.98	.19	.12	.01		--	71	0	0.9	
							40	18	42			75	15	9	1						
03/05/75	5050		10.9	51.8F	7.4	100	11	2.9	14	--	0	63	8.7	6.5	--	.20	--	83	40		X
1200	5050		100	11.0C	7.7	142	.55	.24	.61		.00	1.03	.18	.18			--	74	0	1.0	
							39	17	44			74	13	13							
05/27/75	5050		9.8	68.0F	8.0	115	8.7	3.5	12	--	0	57	7.9	4.0	--	.10	--	78	36		
1150	5050		109	20.0C	7.7	124	.43	.29	.52		.00	.93	.16	.11			--	64	0	0.9	
							35	23	42			78	13	9							
09/03/75	5050		8.4	71.6F	7.6	100	9.2	2.2	9.8	--	0	50	3.1	4.4	--	.10	--	64	32		
0945	5050		97	22.0C	7.7	111	.46	.18	.43		.00	.82	.06	.12			--	53	0	0.8	
							43	17	40			82	6	12							
	C0	5160.10			KERN RIVER AT HART PARK																
10/02/74	5050		9.6		7.7		9.4	1.6	10	--	0	47	6.2	3.2	--	.10	--	66	30		
1300	5050				7.1	103	.47	.13	.44		.00	.77	.13	.09			--	54	0	0.8	
							45	13	42			78	13	9							
03/05/75	5050		11.1	52.7F	8.4	105	12	3.2	14	--	0	65	18	5.7	--	.20	--	80	43		X
1245	5050		103	11.5C	7.7	144	.60	.26	.61		.00	1.07	.37	.16			--	85	0	0.9	
							41	18	41			67	23	10							
07/23/75	5050		8.3	73.4F	7.4	97	--	--	--	--	0	45	--	--	--	--	--	56			
1400	5050		98	23.0C	7.5	98					.00	.74					--				
																					S
	C0	5180.10			KERN RIVER AT RANCHERIA BRIDGE																
10/02/74	5050		9.3		7.7		9.1	1.8	10	--	0	48	5.3	3.0	--	.10	--	55	30		
1200	5050				7.5	104	.45	.15	.44		.00	.79	.11	.08			--	53	0	0.8	
							43	14	42			81	11	8							
03/05/75	5050		10.6	50.9F	7.5	100	12	2.7	14	--	0	64	12	5.3	--	.20	--	82	41		X
1140	5050		97	10.5C	7.5	143	.60	.22	.61		.00	1.05	.25	.15			--	78	0	1.0	
							42	15	43			72	17	10							
07/23/75	5050		8.2	73.4F	7.5	93	--	--	--	--	0	44	--	--	--	--	--	60			
1330	5050		97	23.0C	7.5	97					.00	.72					--				
																					S
	C1	1115.50			KINGS RIVER NEAR PIEDRA																
10/23/74	5050		10.2	61.7F	7.2	25	2.6	.6	1.2	--	0	11	1.0	.0	--	.00	--	22	9		E
1545	5050		106	16.5C	7.4	27	.13	.05	.05		.00	.18	.02	.00			--	11	0	0.2	T
							57	22	22			90	10								
05/07/75	5050		11.9	51.8F	8.4	30	--	--	--	--	0	19	--	--	--	--	--	28			X
1100	5050		109	11.0C	7.4	42					.00	.31					--				
																					S
	C1	1140.00			KINGS RIVER BELOW PINE FLAT RESERVOIR																
12/10/74	5050	0.89	9.5	52.7F	7.2	25	2.7	.8	1.6	--	0	13	1.3	.2	.5	.00	--	21	10		E
0850	5050		89	11.5C	7.0	26	.13	.07	.07		.00	.21	.03	.01	.01		--	13	0	0.2	T
							48	26	26			81	12	4	4						
03/04/75	5050	5.30	10.0	48.6F	7.0	25	3.0	1.1	2.6	--	0	16	2.1	1.0	--	.00	--	27	12		EA
0735	5050		88	9.2C	7.0	37	.15	.09	.11		.00	.26	.04	.03			--	18	0	0.3	T
							43	26	31			79	12	9							
05/28/75	5050	6.87	11.8	54.5F	7.2	40	4.2	1.1	3.4	--	0	20	3.0	1.4	--	.00	--	43	15		E
1000	5050		113	12.5C	7.1	45	.21	.09	.15		.00	.33	.06	.04			--	23	0	0.4	T
							47	20	33			77	14	9							
09/02/75	5050	4.69	9.6	59.0F	8.4	15	1.5	.8	1.2	--	0	9	1.5	1.0	--	.00	--	19	7		EX
0700	5050		97	15.0C	7.2	21	.07	.07	.05		.00	.15	.03	.03			--	10	0	0.2	T
							37	37	26			71	14	14							
	C1	1320.00			BIG CREEK ABOVE PINE FLAT RESERVOIR																
10/23/74	5050	1.38	10.1	66.2F	7.9	130	12	2.7	11	--	0	57	5.9	12	--	.00	--	103	41		
1330	5050		112	19.0C	7.7	148	.60	.22	.48		.00	.93	.12	.34			--	72	0	0.7	T
							46	17	37			67	9	24							
05/07/75	5050	2.86	10.3	55.4F	7.4	50	--	--	--	--	0	34	--	--	--	--	--	50			EX
1230	5050		101	13.0C	7.4	66					.00	.56					--				
																					S

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD PH	FIELD EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB SAR	REM
							MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER	MILLIGRAMS PER LITER				
C1	1460.00				KINGS RIVER BELOW NORTH FORK																
10/23/74	5050		10.6	59.0F	7.3	45	5.4	.8	3.4	--	0	24	2.6	.9	--	.00	--	43	17		E
1215	5050		108	15.0C	7.4	55	.27	.07	.15		.00	.39	.05	.03			--	25	0	0.4	T
							55	14	31			83	11	6							
05/07/75	5050	5.26	10.9	55.0F	7.2	30	--	--	--	--	0	18	--	--	--	--	--	26			X
1340	5050		106	12.8C	7.3	40					.00	.30					--				
																					S
05/28/75	5050		11.4	55.4F	8.3	20	1.1	.8	1.2	--	0	7	.0	1.4	--	.00	--	22	6		E
1115	5050		111	13.0C	7.1	18	.05	.07	.05		.00	.11	.00	.04			--	8	1	0.2	T
							29	41	29			73		27							
09/02/75	5050		9.1	66.2F	7.5	35	4.6	1.8	3.2	--	0	20	3.3	1.0	--	.00	--	34	19		EX
0900	5050		101	19.0C	7.5	47	.23	.15	.14		.00	.33	.07	.03			--	24	3	0.3	T
							44	29	27			77	16	7							
C1	4115.30				KINGS RIVER SOUTH FORK AT CEDAR GROVE																
10/23/74	5050		10.1	44.8F	7.3	34	4.6	.4	3.4	--	0	15	5.3	1.6	--	.00	--	39	13		EX
0830	5050		98	7.1C	7.4	50	.23	.03	.15		.00	.25	.11	.05			--	23	1	0.4	T
							56	7	37			61	27	12							
05/07/75	5050		11.4	41.0F	7.6	22	--	--	--	--	0	10	--	--	--	--	--	18			X
0730	5050	700	105	5.0C	7.4	35					.00	.16					--				
																					S
C2	1210.30				KAWEAH RIVER ABOVE LAKE KAWEAH																
10/16/74	5050		9.6	68.0F	7.6	125	17	2.1	8.3	--	0	68	4.5	5.7	--	.00	--	86	51		
1245	5050		107	20.0C	8.0	139	.85	.17	.36		.00	1.11	.09	.16			--	71	0	0.5	
							62	12	26			82	7	12							
04/23/75	5050		10.4	57.0F	7.5		--	--	--	--	0	42	--	--	--	--	--	55			
1300	5050		103	13.9C	7.6	82					.00	.69					--				
																					S
08/06/75	5050		8.0	77.9F	7.8	80	--	--	--	--	0	43	--	--	--	--	--	58			
1300	5050		99	25.5C	7.5	84					.00	.70					--				
																					S
C2	1250.00				KAWEAH RIVER AT THREE RIVERS																
12/16/74	5050		12.0	45.5F	7.4	65	12	2.0	4.8	--	0	51	3.3	2.4	.2	.00	--	66	38		X
1235	5050		102	7.5C	7.5	111	.60	.16	.21		.00	.84	.07	.07	.00		--	50	0	0.3	T
							62	16	22			86	7	7							
05/28/75	5050		10.6	55.4F	7.3	35	4.3	.8	1.9	--	0	19	.0	1.9	--	.00	--	35	14		E
0745	5050		103	13.0C	7.3	35	.21	.07	.08		.00	.31	.00	.05			--	18	0	0.2	T
							58	19	22			86		14							
09/02/75	5050		8.8	71.6F	7.5	95	12	2.2	5.8	--	0	52	2.5	5.9	--	.00	--	69	39		
1230	5050		103	22.0C	7.9	107	.60	.18	.25		.00	.85	.05	.17			--	54	0	0.4	T
							58	17	24			79	5	16							
C2	2010.30				KAWEAH RIVER NORTH FORK NEAR MOUTH																
10/16/74	5050		7.6	66.3F	7.6	158	24	4.1	7.9	--	0	102	3.7	2.5	--	.00	--	114	77		
0950	5050	2.0	78	19.7C	8.0	172	1.20	.34	.34		.00	1.67	.08	.07			--	92	0	0.4	
							64	18	18			92	4	4							
04/23/75	5050		10.8	53.0F	7.4	84	--	--	--	--	0	50	--	--	--	--	--	64			
1015	5050		102	11.7C	7.7	92					.00	.82					--				
																					S
08/06/75	5050		8.1	75.2F	7.6	118	--	--	--	--	0	74	--	--	--	--	--	89			E
0930	5050		98	24.0C	7.5	125					.00	1.21					--				
																					S
C2	3147.00				KAWEAH RIVER WF BELOW NO 2 INTAKE NR THREE RIVERS																
10/16/74	5050		9.2	59.0F	7.6	82	11	2.3	6.8	--	0	50	2.9	3.1	--	.00	--	56	37		
0820	5050		95	15.0C	7.7	98	.55	.19	.30		.00	.82	.06	.09			--	51	0	0.5	
							53	18	29			85	6	9							
04/23/75	5050		12.0	47.0F	7.4	54	--	--	--	--	0	28	--	--	--	--	--	32			
0900	5050		107	8.3C	7.3	54					.00	.46					--				
																					S
08/06/75	5050		8.1	70.7F	7.2	52	--	--	--	--	0	31	--	--	--	--	--	45			E
0830	5050		95	21.5C	7.2	62					.00	.51					--				
																					S
C2	4201.50				KAWEAH RIVER SOUTH FORK ABOVE GROUSE CREEK																
10/16/74	5050		9.0	64.9F	7.7	140	21	3.3	8.3	--	0	90	4.1	3.9	--	.00	--	100	66		
1115	5050	2.0	101	18.3C	7.9	157	1.05	.27	.36		.00	1.48	.09	.11			--	85	0	0.4	
							63	16	21			88	5	7							
04/23/75	5050		11.0	50.0F	7.5	98	--	--	--	--	0	51	--	--	--	--	--	63			
1150	5050		104	10.0C	7.7	93					.00	.84					--				
																					S
08/06/75	5050		8.2	71.6F	8.0	110	--	--	--	--	0	67	--	--	--	--	--	80			
1130	5050		99	22.0C	7.6	124					.00	1.10					--				
																					S

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	D.M. O SAT	DO DEPTH	TEMP	FIELD PH	LABORATORY 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					MILLIGRAMS PER LITER					
											MILLIEQUIVALENTS PER LITER										
											PERCENT REACTANCE VALUE										
C3 1929.30					TULE RIVER BELOW SPRINGVILLE																
10/30/74	5050		12.1	57.0F	8.3	275	12	27	19	--	0	199	7.2	12	--	.10	--	204	144		x
1140	5050		119	13.9C	8.1	377	.60	2.28	.83		.00	3.26	.15	.34			--	176	0	0.7	
							16	61	22			87	4	9							
12/16/74	5050	3.75	11.6	51.8F	8.1	255	44	7.8	19	--	0	198	6.4	9.6	.1	.10	--	214	142		x
1440	5050		107	11.0C	8.3	346	2.20	.64	.83		.00	3.25	.13	.27	.00		--	184	0	0.7	
							60	17	23			89	4	7							
04/09/75	5050		11.2	50.4F	8.2	130	--	--	--	--	0	105	--	--	--	--	--	133			Ex
1100	5050		102	10.2C	8.1	188					.00	1.72					--				
																					S
05/27/75	5050	5.02	9.8	64.4F	8.0	78	11	1.8	4.6	--	0	49	.0	2.8	--	.00	--	65	35		E
1530	5050		105	18.0C	7.8	92	.55	.15	.20		.00	.80	.00	.08			--	44	0	0.3	T
							61	17	22			91		9							
08/20/75	5050	3.44	9.2	76.1F	8.0	300	--	--	--	--	0	199	--	--	--	--	--	194			
1200	5050		112	24.5C	8.2	336					.00	3.26					--				
																					S
09/02/75	5050	3.34	9.0	80.6F	8.1	310	40	9.0	20	--	1.0	201	4.6	11	--	.10	--	211	137		
1430	5050		114	27.0C	8.4	340	2.00	.74	.87		.03	3.29	.10	.31			--	185	0	0.7	
							55	20	24												S
C3 2190.10					TULE RIVER NORTH FORK AT BEAR CREEK ROAD																
10/30/74	5050		10.0	53.6F	7.7	271	34	11	25	--	0	166	9.4	28	--	.00	--	213	130		x
0945	5050		97	12.0C	8.1	389	1.70	.90	1.09		.00	2.72	.20	.79			--	189	0	1.0	
							46	24	30			73	5	21							
04/09/75	5050		11.1	47.3F	7.4	62	--	--	--	--	0	46	--	--	--	--	--	71			Ex
0920	5050		99	8.5C	7.4	90					.00	.75					--				
																					S
08/20/75	5050		8.0	73.4F	7.2	260	--	--	--	--	0	159	--	--	--	--	--	185			
1000	5050		97	23.0C	7.6	299					.00	2.61					--				
																					S
C3 3200.00					TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILL																
10/30/74	5050	2.50	10.3	46.8F	8.2	232	36	14	20	--	0	211	4.8	12	--	.20	--	200	148		x
0800	5050		95	8.2C	8.3	387	1.80	1.16	.87		.00	3.46	.10	.34			--	191	0	0.7	
							47	30	23			89	3	9							
04/09/75	5050		12.1	40.5F	8.2	180	--	--	--	--	3.0	184	--	--	--	--	--	194			x
0800	5050		102	4.7C	8.5	308					.10	3.02					--				
																					S
08/20/75	5050		8.1	59.9F	8.2	215	--	--	--	--	0	217	--	--	--	--	--	147			x
0830	5050		88	15.5C	8.0	364					.00	3.56					--				
																					S
C3 4149.30					TULE RIVER SOUTH FORK ABOVE CREW CREEK																
10/30/74	5050		9.6	59.0F	7.7	146	17	3.8	13	--	0	86	5.8	6.8	--	.00	--	120	58		
1340	5050		97	15.0C	7.6	182	.85	.31	.57		.00	1.41	.12	.19			--	89	0	0.7	T
							49	18	33			82	7	11							
04/09/75	5050		10.8	52.2F	7.6	98	--	--	--	--	0	90	--	--	--	--	--	91			x
1200	5050		101	11.2C	7.9	138					.00	1.48					--				
																					S
08/20/75	5050		8.1	80.6F	8.1	155	--	--	--	--	0	89	--	--	--	--	--	102			
1300	5050		103	27.0C	8.1	160					.00	1.46					--				
																					S
C4 4950.10					POSO CREEK BELOW GLENNVILLE																
12/16/74	5050		9.8	50.0F	7.8	160	23	4.5	15	--	0	109	8.9	6.2	2.0	.00	--	148	76		x
1620	5050		96	10.0C	8.1	217	1.15	.37	.65		.00	1.79	.19	.17	.03		--	113	0	0.7	T
							53	17	30			82	9	8	1						
C5 1220.10					KERN RIVER AT MIRACLE HOT SPRINGS																
10/02/74	5050		8.6		7.4		9.2	1.7	9.8	--	0	49	5.1	3.1	--	.10	--	60	30		
1000	5050				7.4	103	.46	.14	.43		.00	.80	.11	.09			--	53	0	0.8	
							45	14	42			80	11	9							
03/05/75	5050		10.8	48.2F	7.4	100	12	2.7	14	--	0	65	9.4	5.4	--	.20	--	87	41		x
1045	5050		100	9.0C	7.9	143	.60	.22	.61		.00	1.07	.20	.15			--	76	0	1.0	
							42	15	43			75	14	11							
07/23/75	5050		8.2	69.8F	7.5	90	--	--	--	--	0	44	--	--	--	--	--	60			
1130	5050		99	21.0C	7.3	95					.00	.72					--				
																					S
C5 1350.00					KERN RIVER BELOW ISABELLA DAM																
12/17/74	5050	2.45	10.7	47.3F	7.3	85	10	2.2	10	--	0	56	6.9	2.9	.8	.10	--	64	34		A
0915	5050		99	8.5C	8.2	122	.50	.18	.44		.00	.92	.14	.08	.01		--	60	0	0.7	
							45	16	39			80	12	7	1						
03/05/75	5050	6.32	10.7	47.3F	7.4	88	11	2.6	13	--	0	60	8.2	5.8	--	.20	--	76	38		x
1030	5050		99	8.5C	7.7	134	.55	.21	.57		.00	.98	.17	.16			--	70	0	0.9	
							41	16	43			75	13	12							
05/27/75	5050	6.20	10.4	60.8F	7.3	90	9.1	2.1	10	--	0	49	4.3	4.7	--	.00	--		31		
1300	5050		114	16.0C	7.4	106	.45	.17	.44		.00	.80	.09	.13			--	54	0	0.8	
							42	16	42			78	9	13							S
09/03/75	5050		7.8	69.8F	7.3	100	8.8	2.2	9.3	--	0	49	4.0	4.0	--	.10	--	60	31		
0900	5050		94	21.0C	7.3	107	.44	.18	.40		.00	.80	.08	.11			--	52	0	0.7	
							43	18	39			81	8	11							

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 NCH	TURB SAR	REM
							MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					
C5 1500.00							KERN RIVER AT KERNVILLE														
10/02/74	5050		9.7		7.5		12	2.2	12	--	0	61	9.2	5.0	--	.10	--	91	39		
0745	5050				7.6	137	.60	.18	.52		.00	1.00	.19	.14			--	70	0	0.8	T
							46	14	40			75	14	11							
12/17/74	5050		12.4	38.3F	7.9	90	13	1.6	15	--	0	66	9.9	5.0	.5	.20	--	95	39		X
0815	5050		102	3.5C	7.9	146	.65	.13	.65		.00	1.08	.21	.14	.01		--	78	0	1.0	
							45	9	45			75	15	10	1						
03/05/75	5050		10.3	45.5F		85	12	2.2	12	--	0	59	7.2	5.4	--	.20	--	86	39		X
0415	5050		94	7.5C	7.7	128	.60	.18	.52		.00	.97	.15	.15			--	68	0	0.8	T
							46	14	40			76	12	12							
05/27/75	5050		10.0	59.0F	7.2	35	3.6	.5	3.3	--	0	17	.0	1.9	--	.00	--	44	11		E
1345	5050		108	15.0C	7.2	38	.18	.04	.14		.00	.28	.00	.05			--	18	0	0.4	T
							50	11	39			85		15							
07/23/75	5050		8.6	66.2F	7.6	75	--	--	--	--	0	39	--	--	--	--	--	72			E
0930	5050		101	19.0C	7.4	80					.00	.64					--				
																					S
09/03/75	5050		8.4	16.5F	7.4	100	12	2.7	13	--	0	69	7.7	5.9	--	.10	--	85	41		X
0830	5050		46	8.6C	7.8	142	.60	.22	.57		.00	1.13	.16	.17			--	75	0	0.9	
							43	16	41			77	11	12							
C5 1660.10							KERN RIVER ABOVE FAIRVIEW														
10/02/74	5050		6.3		7.6		10	2.2	12	--	0	52	8.7	5.6	--	.10	--	89	34		E
0630	5050				7.3	127	.50	.18	.52		.00	.85	.18	.16			--	64	0	0.9	T
							42	15	43			71	15	13							
03/05/75	5050		10.6	44.2F	7.3	85	10	1.9	13	--	0	53	8.7	5.3	--	.20	--	79	33		X
0830	5050		98	6.8C	7.7	120	.50	.16	.57		.00	.87	.18	.15			--	65	0	1.0	
							41	13	46			73	15	13							
07/23/75	5050		8.1	61.7F	7.4	65	--	--	--	--	0	33	--	--	--	--	--	57			E
0800	5050		94	16.5C	7.5	74					.00	.54					--				
																					S
C5 3110.10							KERN RIVER SOUTH FORK NEAR WELDON														
10/02/74	5050		8.4		8.1		45	9.0	54	--	2.0	256	26	20	--	.50	--	285	149		
0915	5050				8.4	513	2.25	.74	2.35		.07	4.20	.54	.56			--	282	0	1.9	
							42	14	44												S
03/05/75	5050		8.8	53.6F	7.5	400	46	11	52	--	0	262	27	20	--	.50	--	324	159		X
0940	5050		89	12.0C	8.3	505	2.30	.90	2.26		.00	4.29	.56	.56			--	285	0	1.8	
							42	16	41			79	10	10							
C6 1540.00							TEHACHAPI CREEK NEAR TEHACHAPI, CA														
12/17/74	5050	32.32	12.2	41.9F	8.2	1200	166	58	145	--	0	361	434	188	1.3	.50	--	1270	653		X
1150	5050		96	5.5C	7.8	1820	8.28	4.77	7.18		.00	5.92	9.04	5.30	.02		--	1190	357	2.8	
							41	24	35			29	45	26							
C6 1575.00							CALIENTE CREEK ABOVE TEHACHAPI, CA														
12/17/74	5050	1.27	11.5	47.3F	8.3	650	47	34	79	--	0	270	166	39	3.6	.80	--	537	259		X
1100	5050		98	8.5C	8.2	848	2.35	2.83	3.44		.00	4.43	3.46	1.10	.06		--	503	38	2.1	
							27	33	40			49	38	12	1						
C6 2050.30							TEJON CREEK AT COMANCHE POINT OIL FIELD														
12/17/74	5050		9.0	54.5F	7.9	1600	108	89	221	--	0	650	458	115	2.0	.80	--	1370	637		X
1420	5050		86	12.5C	8.1	2020	5.39	7.34	9.61		.00	10.65	9.54	3.24	.03		--	1314	104	3.8	
							24	33	43			45	41	14							
80 7020.00							SAN JOAQUIN RIVER NEAR VERNALIS														
10/02/74	5001		6.9	66	F	7.6	345	--	--	--	--	0	78	--	47	--	--	--	207		14AF
1035	5050		74	19	C							.00	1.28		1.33			16.0			
		3																			S
10/16/74	5001	12.37	7.3	66	F	7.6	500	--	--	--	--	0	106	--	80	--	--	--	272		24AF
1030	5050	2700	78	19	C							.00	1.74		2.26			18.0			
		3																			S
10/17/74	5050	12.75	7.0	64	F	7.2	400	22	12	54	--	0	103	36	69	--	.10	--	274	108	X
0800	5050		73	18	C	7.7	505	1.10	1.06	2.35		.00	1.69	.75	1.95			--	245	24	2.3
								24	24	52			38	17	44						
11/06/74	5001	14.49	8.7	57	F	7.3	330	--	--	--	--	0	68	--	43	--	--	--	194		16AF
1425	5050	4500	84	14	C							.00	1.11		1.21			14.2			
		3																			S
11/18/74	5001	13.57	8.9	59	F	7.3	440	--	--	--	--	0	76	--	56	--	--	--	239		10AF
1320	5050	3670	88	15	C							.00	1.25		1.58			14.0			
		3																			S
11/21/74	5050	13.35	8.8	55.4F	7.3	310	21	10	53	--	0	88	44	61	2.7	.20	--	248	97		X
0900	5050		83	13.0C	7.7	458	1.05	.89	2.31		.00	1.44	.92	1.72	.04		--	236	25	2.3	
							25	21	54			35	22	42	1						
12/17/74	5001	14.62	10.1	54	F	7.6	375	--	--	--	--	0	68	--	53	--	--	--	240		9AF
1300	5050	4510	93	12	C							.00	1.11		1.49			12.2			
		3																			S
12/19/74	5050	12.67	8.7	50.0F	7.2	358	22	12	58	--	0	87	65	67	--	.40	--	292	108		X
0900	5050		77	10.0C	8.1	525	1.10	1.06	2.52		.00	1.43	1.35	1.89			--	268	37	2.4	
							24	23	54			31	29	40							
01/21/75	5001	12.56	9.8	50	F	7.5	645	--	--	--	--	0	99	--	106	--	--	--	376		8AF
1600	5050	2750	87	10	C							.00	1.62		2.99			15.0			
		3																			S
02/03/75	5001	13.27	9.9	52	F		633	--	--	--	--	--	--	--	95	--	--	--	376		16AF
1450	5050	3325	96	11	C										2.68			11.8			
		3																			S

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN 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	TURB SAR	HEA
	80	7020 **			SAN JOAQUIN RIVER NEAR VERNALIS									CONTINUED							
03/18/75 1115	5001 5050	16.38 6420 3	9.7 92	55 13	F C	7.6	408	--	--	--	--	0 .00	78 1.28	--	49 1.38	--	--	-- 14.0	239		22AF	S
04/01/75 1240	5001 5050	16.40 6440 3	9.7 92	55 13	F C	7.6	398	--	--	--	--	0 .00	76 1.25	--	50 1.41	--	--	-- 14.0	250		25AF	S
04/18/75 1410	5001 5050	13.22 3380 3	9.4 93	59 15	F C	7.4	633	--	--	--	--	0 .00	110 1.80	--	80 2.26	--	--	-- 17.0	339		26AF	S
05/01/75 1335	5001 5050	12.14 2510 3	8.9 95	66 19	F C	7.8	702	--	--	--	--	0 .00	125 2.05	--	121 3.41	--	--	-- 16.0	472		32AF	S
05/15/75 1210	5001 5050	13.79 3870 3	9.5 100	64 18	F C	7.8	405	--	--	--	--	0 .00	83 1.36	--	54 1.52	--	--	-- 16.0	240		19AF	S
06/03/75 1700	5001 5050	16.61 6670 3	8.9 95	66 19	F C	7.3	198	--	--	--	--	0 .00	44 .72	--	23 .65	--	--	-- 10.0	107		10AF	S
06/17/75 1615	5001 5050	17.69 7930 3	8.7 93	66 19	F C	7.6	140	--	--	--	--	0 .00	37 .61	--	15 .42	--	--	-- 10.0	81		17AF	S
06/25/75 1010	5050 5001	2930 3	8.2 88	66 19	F C	7.8	531	--	--	--	--	0 .00	110 1.80	--	--	--	--	-- 16.2			38AF	S
07/01/75 1535	5001 5050	3	9.8 109	70 21	F C	8.2	736	--	--	--	--	0 .00	145 2.38	--	120 3.38	--	--	-- 16.0	438		32AF	S
07/15/75 1510	5001 5050	3	8.7 99	72 22	F C	8.2	778	--	--	--	--	0 .00	151 2.47	--	59 1.66	--	--	-- 17.0	414		50AF	S
07/23/75 1035	5050 5001	3	7.4 89	77 25	F C	7.4 7.9	865	--	--	--	--	0 .00	132 2.16	--	--	--	--	-- 18.6			54AF	S
08/12/75 1615	5001 5050	3	9.4 115	78.8F 26.0C		7.2	733	--	--	--	--	--	--	--	106 2.99	--	--	-- 18.0	396		48AF	S
08/26/75 1200	5001 5050	11.14 1790 3	7.3 88	77 25	F C	7.7	685	--	--	--	--	--	--	--	104 2.93	--	--	-- 21.0	420		31AF	S
09/11/75 1410	5001 5050	12.16 2530 3	7.9 90	72 22	F C	7.8	471	--	--	--	--	0 .00	82 1.34	--	71 2.00	--	--	-- 16.0	255		19AF	S
09/25/75 1330	5001 5050	12.81 3050 3	7.4 86	73 23	F C	7.8	379	--	--	--	--	0 .00	75 1.23	--	49 1.38	--	--	-- 14.0	218		19AF	S

TABLE D-3

MINOR ELEMENT ANALYSES OF SURFACE WATER

Abbreviations and Codes used in this table are:

Abbreviations

D	Dissolved Concentration
T	Total Concentration

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-3

MINOR ELEMENT ANALYSIS OF SURFACE 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
	4U	470.00		SALT SLOUGH NR STEVINSON								
08/20/75	5050			23 C		--	0.01 T	0.02 T	0.01 T	0.0002 T	--	
1100	5050		1100	7.3	0.01 T	0.00 T	--	6.1 T	--	--	0.03 T	
	8U	5166.50		CANAL CREEK AT OAKDALE ROAD								
04/16/75	5050		150	12.8C		--	0.01 T	--	0.00 T	0.0000 T	--	
1630	5050		50	7.0	--	0.00 T	--	--	--	--	--	
	9U	7020.00		SAN JOAQUIN RIVER NEAR VERNALIS								
12/19/74	5050			10.0C		--	--	0.01 O	--	0.0000 T	--	
0900	5050		358	7.2	--	--	0.00 O	0.01 O	--	--	0.01 O	
01/21/75	5001			10 C		--	0.01 T	0.00 T	0.00 T	0.0000 T	--	
1600	5050	3	645	7.5	0.00 T	0.00 T	--	1.6 T	0.09 T	--	0.01 T	
01/21/75	5001			10 C		--	0.00 O	0.00 O	0.00 O	--	--	
1601	5050	3	645	7.5	0.00 O	0.00 O	--	0.04 O	0.05 O	--	0.01 O	
05/01/75	5001			19 C		--	0.00 O	0.02 O	0.00 O	--	--	
1335	5050	3	702	7.8	0.00 O	0.00 O	--	0.05 O	0.05 O	--	0.05 O	
05/01/75	5001			19 C		--	0.00 T	0.04 T	0.00 T	0.0001 T	--	
1336	5050	3	702	7.8	0.00 T	0.00 T	--	2.8 T	0.18 T	--	0.05 T	
09/11/75	5001			22 C		--	0.00 O	0.00 O	0.00 O	--	--	
1410	5050	3	471	7.8	0.00 O	0.00 O	--	0.03 O	0.02 O	--	0.00 O	
09/11/75	5001			22 C		--	0.01 T	0.01 T	0.00 T	--	--	
1411	5050	3	471	7.8	0.00 T	0.00 T	--	1.5 T	0.13 T	--	0.01 T	
	8U	7375.00		SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE								
12/19/74	5050			10.0C		--	0.01 T	0.0 T	--	0.0000 T	--	
1240	5050		1450	7.6	--	--	--	2.1 T	--	--	0.0 T	
05/21/75	5050			20.0C		--	0.01 T	0.01 T	0.00 T	0.0001 T	--	
1315	5050		900	8.5	0.00 T	0.00 T	--	5.0 T	--	--	0.01 T	
08/20/75	5050			24 C		--	0.02 T	0.02 T	0.01 T	0.0003 T	--	
1130	5050		1000	7.4	0.00 T	0.00 T	--	6.2 T	--	--	0.04 T	
	8U	7865.00		SAN JOAQUIN RIVER AT FRIANT DAM								
12/10/74	5050			9.5C		--	0.00 T	0.00 T	--	--	--	
1400	5050		40	6.8	--	--	--	--	--	--	--	
	8J	1158.10		STANISLAUS RIVER BELOW TULLOCK DAM								
12/20/74	5 50			10.5C		--	0.00 T	0.01 T	--	0.0000 T	--	
0930	5050		55	7.4	--	--	--	0.19 T	--	--	0.00 T	
	8S	1200.00		MERCED RIVER BELOW EXCHEQUER DAM								
12/20/74	5050			12.5C		--	0.00 T	--	--	0.0000 T	--	
1330	5050		35	6.8	--	--	--	0.62 T	--	--	0.00 T	
	8S	6152.50		BURNS CREEK AT MERCED MARIPOSA COUNTY LINE								
04/16/75	5050		8.0	12.0C		--	0.00 T	--	0.00 T	0.0000 T	--	
0915	5050		205	8.0	--	0.00 T	--	--	--	--	--	
	8R	2204.10		MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR								
04/16/75	5050			12.0C		--	0.01 T	--	0.00 T	0.0000 T	--	
1200	5050		135	8.2	--	0.00 T	--	--	--	--	--	
	8T	1180.00		SAN JOAQUIN RIVER BELOW KERCKHOFF NEAR PRATHER								
12/10/74	5050			9.5C		--	--	--	--	--	--	
1100	5050		25	7.1	--	--	--	--	--	--	0.01 T	
	8C	2185.00		KAWEAH RIVER BELOW TERMINUS DAM								
12/16/74	5050			11.0C		--	0.00 T	0.00 T	--	0.0000 T	--	
1120	5050		120	7.9	--	--	--	0.56 T	--	--	0.01 T	
	8A	3196.30		TULE RIVER BELOW SUCCESS DAM								
12/16/74	5050			15.5C		--	0.00 T	0.00 T	--	0.0000 T	--	
1400	5050		345	7.5	--	--	--	0.19 T	--	--	0.00 T	
	8B	5150.00		KERN RIVER NR BAKERSFIELD								
12/17/74	5050			9.5C		--	0.00 T	0.00 T	--	0.0000 T	--	
1010	5050		105	8.3	--	--	--	0.34 T	--	--	0.01 T	
	8I	1140.00		KINGS RIVER BELOW PINE FLAT RESERVOIR								
12/10/74	5050			11.5C		--	0.00 T	0.00 T	--	0.0000 T	--	
0850	5050		25	7.2	--	--	--	0.29 T	--	--	0.00 T	

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Abbreviations and Codes used in this table are:

Abbreviations

BOD	Biochemical Oxygen Demand (B = 5 days at 20° C)
COD	Chemical Oxygen Demand
SUS S	Suspended Solids 5 = 105° C 8 = 180° C
V SUS S	Volatile Suspended Solids
TOC	Total Organic Carbon
TURB	Turbidity in Turbidity Units

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MGAS	DEPTH	T+L TURB	CHLOR	O+G COLOR	SET S ML/L MO/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T OGOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
80 0109.30					WESTLEY WASTEWAY													
06/25/75	5050	18 C	10.5					--	--	--	--	--	--	--	--	--	--	--
0945	5001				--			--	--	--	552 8	62	--	--	--	--	--	--
06/25/75	5050	18 C	10.5	8.0				--	--	--	4.8 8	37	--	--	--	--	--	--
0945	5050	458			--			--	--	--	--	--	--	--	--	--	--	--
07/23/75	5050	23 C	11.3	8.5			1	--	--	--	8.6 8	34	--	--	--	--	--	--
0820	5050	668			--			--	--	--	--	--	--	--	--	--	--	--
80 0349.10					NEWMAN WASTEWAY													
06/24/75	5050	19 C	5.4	7.9			3	--	--	--	9.1 8	31	--	--	--	--	--	--
1030	5050	1070			--			--	--	--	--	--	--	--	--	--	--	--
06/24/75	5050	19 C	5.4	7.9				--	--	--	--	--	--	--	--	--	--	--
1030	5001	1070			--			--	--	--	88 8	18	--	--	--	--	--	--
07/22/75	5050	23 C	2.4	7.3			3	--	--	--	6.7 R	31	--	--	--	--	--	--
0730	5050	1060			--			--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20 C	1.3	7.6			3	--	--	--	6.4 R	26	--	--	--	--	--	--
1005	5050	1290			--			--	--	--	--	--	--	--	--	--	--	--
80 0470.00					SALT SLOUGH NR STEVINSON													
04/03/75	5050	13.0C	8.3	7.7				--	--	--	--	--	--	--	--	--	--	--
0900	5050	1550			--			--	--	--	76 5	7	--	--	--	--	--	--
05/21/75	5050	17.0C		7.4				--	--	--	--	48	--	--	--	--	--	--
1230	5050	1300			--			--	--	--	144 5	--	--	--	--	--	--	--
06/24/75	5050	20 C	6.4	8.1			3	--	--	--	6.2 8	35	--	--	--	--	--	--
0945	5050	993	21.44		--			--	--	--	--	--	--	--	--	--	--	--
06/24/75	5050	20 C	6.4	8.1				--	--	--	--	--	--	--	--	--	--	--
0945	5001	993			--			--	--	--	120 R	21	--	--	--	--	--	--
07/22/75	5050	28 C	5.6	7.8			3	--	--	--	6.4 R	35	--	--	--	--	--	--
0950	5050	867			--			--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	23 C		7.3				--	--	--	6.7 8	74	--	20	--	--	--	--
1100	5050	1100			--			--	--	--	154 5	--	--	--	--	--	--	--
08/27/75	5050	22.0C	5.9	7.4				--	--	--	--	--	--	--	--	--	--	--
1100	5050	1175	22.55		--			--	--	--	181 5	--	--	--	--	--	--	--
09/30/75	5050	20 C	6.6	8.0		3	3	--	--	--	3.2 R	30	--	--	--	--	--	--
1000	5050	956	21.63		--			--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20.0C	6.6	8.0			3	--	--	--	--	--	--	--	--	--	--	--
1001	5001	956	21.63		--			--	--	--	125 5	24	--	--	--	--	--	--
80 0770.00					DELTA MENDOTA CANAL TO MENDOTA POOL													
04/08/75	5050	13.0C	10.3	7.5				--	--	--	--	--	--	--	--	--	--	--
1030	5050	310	15.20		--			--	--	--	44 5	5	--	--	--	--	--	--
09/11/75	5050	23.0C	7.4	7.6				--	--	--	--	--	--	--	--	--	--	--
1100	5050	390	15.50		--			--	--	--	192 5	--	--	--	--	--	--	--
80 0936.30					BURKHARD DRAIN													
06/25/75	5050							--	--	--	--	--	--	--	--	--	--	--
	5001				--			--	--	--	337 R	35	--	--	--	--	--	--
06/25/75	5050	17 C	8.4	8.0			3	--	--	--	5.1 8	31	--	--	--	--	--	--
0950	5050	1120			--			--	--	--	--	--	--	--	--	--	--	--
07/23/75	5050	29 C	7.9	8.2			3	--	--	--	14 8	19	--	--	--	--	--	--
0930	5050	1825			--			--	--	--	--	--	--	--	--	--	--	--
80 0955.30					TILE DRAIN NEAR PATTERSON													
07/22/75	5050	20 C	1.7	7.3			1	--	--	--	0.1 8	8	--	--	--	--	--	--
1255	5050	2923			--			--	--	--	--	--	--	--	--	--	--	--
80 3115.00					STANISLAUS RIVER AT KOETITZ RANCH													
05/28/75	5050	17.5C	9.5	7.3				--	--	--	--	--	--	--	--	--	--	--
1600	5050	35	36.79		--			--	--	--	20 5	--	--	--	--	--	--	--
06/25/75	5050	19 C	7.5					--	--	--	1.7 8	--	--	--	--	--	--	--
1205	5001				--			--	--	--	17 8	17	--	--	--	--	--	--
07/23/75	5050	24	8.1	7.5			3	--	--	--	1.4 R	--	--	--	--	--	--	--
1110	5050	197			--			--	--	--	--	--	--	--	--	--	--	--
08/27/75	5050	23.0C	8.0	7.5				--	--	--	--	--	--	--	--	--	--	--
1500	5050	160	28.62		--			--	--	--	38 5	--	--	--	--	--	--	--
80 3185.00					STANISLAUS RIVER AT KNIGHTS FERRY													
08/18/75	5050	17.0C	9.9	8.1				--	--	--	1.1 R	3	--	--	--	--	--	--
1600	5050	28			--			--	--	--	--	--	--	--	--	--	--	--
09/17/75	5050	23.0C	8.6	7.8				--	--	--	1.6 8	2	--	--	--	--	--	--
1700	5050	65			--			--	--	--	--	--	--	--	--	--	--	--
80 4105.00					TUOLUMNE RIVER AT TUOLUMNE CITY													
05/28/75	5050	24.0C	7.5	7.3				--	--	--	--	--	--	--	--	--	--	--
1400	5050	400	24.10		--			--	--	--	42 5	--	--	--	--	--	--	--
06/25/75	5050	20 C	9.1					--	--	--	3.4 R	--	--	--	--	--	--	--
1125	5001				--			--	--	--	25 8	12	--	--	--	--	--	--
07/23/75	5050	24 C	7.1	7.5			1	--	--	--	2.0 8	--	--	--	--	--	--	--
1005	5050	563			--			--	--	--	--	--	--	--	--	--	--	--
08/27/75	5050	24.0C	8.2	7.6				--	--	--	--	--	--	--	--	--	--	--
1330	5050	600	23.45		--			--	--	--	52 5	--	--	--	--	--	--	--

TABLE D-4 (Cont'd)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T+L CHLOR	O+G COLOR	SET 5 MG/L MG/L	BOD 5US 5	COD V 5US 5	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF O SULF	CC EAT CA EAT
		B0 4175.00			TUOLUMNE RIVER AT LA GRANGE BRIDGE												
06/04/75	5050						--	--	--	1.4 B	2	--	--	--	--	--	--
1300	5050				--		--	--	--	--	--	--	--	--	--	--	--
09/24/75	5050	13.3C	10.5	6.8			--	--	--	1.0 B	2	--	--	--	--	--	--
1400	5050	32			--		--	--	--	--	--	--	--	--	--	--	--
		B0 4921.30			TURLOCK SEWAGE TREATMENT PLANT												
06/24/75	5050	21 C	3.4				--	--	--	61.0 B	100	--	--	--	--	--	--
1255	5001	685			--		--	--	--	91 B	54	--	--	--	--	--	--
07/22/75	5050	26 C	5.8	8.1		1	--	--	--	71 B	135	--	--	--	--	--	--
1145	5050	621			--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	23 C	11.6	8.8		1	--	--	--	55 B	225	--	--	--	--	--	--
1345	5050	740			--		--	--	--	--	--	--	--	--	--	--	--
		B0 4942.30			MODESTO SEWAGE TREATMENT PLANT												
06/24/75	5050	22 C	3.0				--	--	--	39.0 B	190	--	--	--	--	--	--
1405	5001				--		--	--	--	82 B	68	--	--	--	--	--	--
07/22/75	5050	28 C	9.9	9.2		3	--	--	--	48 B	135	--	--	--	--	--	--
1300	5050	1530			--		--	--	--	--	--	--	--	--	--	--	--
		B0 4974.30			TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 2												
06/25/75	5050	17 C	12.9	7.8		3	--	--	--	2.2 B	4	--	--	--	--	--	--
1035	5050	230			--		--	--	--	--	--	--	--	--	--	--	--
06/25/75	5050	17 C	12.9				--	--	--	--	--	--	--	--	--	--	--
1035	5001				--		--	--	--	71 B	13	--	--	--	--	--	--
07/23/75	5050	23 C	8.8	8.0		3	--	--	--	1.4 B	1	--	--	--	--	--	--
0940	5050	230			--		--	--	--	--	--	--	--	--	--	--	--
		B0 4975.30			TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 5												
06/24/75	5050	19 C	9.7				--	--	--	--	--	--	--	--	--	--	--
1500	5001				--		--	--	--	38 B	18	--	--	--	--	--	--
06/24/75	5050	19 C	9.7			2	--	--	--	6.2 B	9	--	--	--	--	--	--
1500	5050	369			--		--	--	--	--	--	--	--	--	--	--	--
07/22/75	5050	24 C	8.2	7.7		2	--	--	--	5.7 B	23	--	--	--	--	--	--
1405	5050	432			--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	21 C	7.3	8.0		2	--	--	--	8.1 B	34	--	--	--	--	--	--
1545	5050	522			--		--	--	--	--	--	--	--	--	--	--	--
		B0 4976.30			TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 6 AND 7												
06/24/75	5050	19.5C	7.5	7.8		1	--	--	--	4.0 B	21	--	--	--	--	--	--
1155	5050	317			--		--	--	--	--	--	--	--	--	--	--	--
06/24/75	5050	19.5C	7.5	7.8			--	--	--	--	--	--	--	--	--	--	--
1155	5001	317			--		--	--	--	7 B	5	--	--	--	--	--	--
07/22/75	5050	23 C	6.8	7.5		1	--	--	--	2.7 B	12	--	--	--	--	--	--
1100	5050	375			--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	21 C	7.9	7.8		1	--	--	--	3.1 B	16	--	--	--	--	--	--
1250	5050	401			--		--	--	--	--	--	--	--	--	--	--	--
		B0 5131.00			MERCED RIVER AT MILLIKEN BRIDGE												
05/28/75	5050	21.0C	8.1	8.1			--	--	--	--	--	--	--	--	--	--	--
1200	5050	70			--		--	--	--	17 5	--	--	--	--	--	--	--
06/24/75	5050	18 C	8.1	6.9			--	--	--	1.4 B	--	--	--	--	--	--	--
0900	5001	78			--		--	--	--	--	--	--	--	--	--	--	--
07/22/75	5050	29 C	7.2	7.2		3	--	--	--	0.8 B	--	--	--	--	--	--	--
0910	5050	150			--		--	--	--	--	--	--	--	--	--	--	--
08/27/75	5050	23.0C	8.1	7.2			--	--	--	--	--	--	--	--	--	--	--
1200	5050	115			--		--	--	--	22 5	--	--	--	--	--	--	--
09/30/75	5050	17 C	8.6	7.2		3	--	--	--	1.1 B	--	--	--	--	--	--	--
0915	5050	50			--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	17.0C	8.6	7.2		3	--	--	--	--	--	--	--	--	--	--	--
0916	5001	50			--		--	--	--	15 5	10	--	--	--	--	--	--
		B0 5166.50			CANAL CREEK AT OAKDALE ROAD												
02/05/75	5050	10.5C	10.2	7.3	15 E		--	--	--	15 8	--	--	--	--	--	--	--
1730	5050	45			--		--	--	--	83 5	29	--	--	--	--	--	--
03/12/75	5050	15.2C	10.3	7.2	25.0		--	--	--	6.2 B	--	--	--	--	--	--	--
1530	5050	55			--		--	--	--	46 5	10	--	--	--	--	--	--
04/16/75	5050	12.8C	10.8	7.9	150		--	--	--	1.0 B	--	--	--	--	--	--	--
1630	5050	50			--		--	--	--	25 5	6	--	--	--	--	--	--
		B0 6369.50			OUTCHMAN CREEK AT BAXTER ROAD												
02/05/75	5050	9 C	8.5	7.2			--	--	--	4.4 B	--	--	--	--	--	--	--
0850	5050	90	4.10		--		--	--	--	52 5	16	--	--	--	--	--	--
03/12/75	5050	53.0F	8.1	7.9	2.6		--	--	--	3.2 B	--	--	--	--	--	--	--
0720	5050				--		--	--	--	7 5	2	--	--	--	--	--	--
04/16/75	5050	12.0C	9.0	8.3			--	--	--	2.4 B	--	--	--	--	--	--	--
0755	5050	212	3.77		--		--	--	--	14 5	4	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SET 5

DATE TIME	SAMP LAB	TEMP EC	DO D.O.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T-L CHLOR	D-O 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 EAT CA EAT
80 6399.50					DEADMAN CREEK AT BAXTER ROAD												
02/05/75	5050	9 C	10.1	7.2			--	--	--	4.4 B	--	--	--	--	--	--	--
0705	5050	70	4.50		--		--	--	--	53 5	11	--	--	--	--	--	--
03/12/75	5050	11.6C	9.1	7.5	11.8		--	--	--	2.0 B	--	--	--	--	--	--	--
0800	5050	128			--		--	--	--	4 5	2	--	--	--	--	--	--
04/16/75	5050	12.5C	9.5	7.9			--	--	--	2.6 B	--	--	--	--	--	--	--
0815	5050	172	3.08		--		--	--	--	6 5	4	--	--	--	--	--	--
80 7020.00					SAN JOAQUIN RIVER NEAR VERNALIS												
80 7040.00					SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE												
05/28/75	5050	24.0C	9.0	7.9			--	--	--	--	--	--	--	--	--	--	--
1330	5050	500	17.53		--		--	--	--	209 5	--	--	--	--	--	--	--
06/25/75	5050						--	--	--	--	--	--	--	--	--	--	--
0850	5001				--		--	--	--	90 8	18	--	--	--	--	--	--
06/25/75	5050	18 C	7.3	7.9		3	--	--	--	14 F	--	--	--	--	--	--	--
0850	5050	586	16.30		--		--	--	--	--	--	--	--	--	--	--	--
07/23/75	5050	25 C	6.1	7.9		3	--	--	--	12 F	--	--	--	--	--	--	--
0825	5050	931			--		--	--	--	--	--	--	--	--	--	--	--
08/27/75	5050	24.0C	7.1	7.5			--	--	--	--	--	--	--	--	--	--	--
1400	5050	800	15.01		--		--	--	--	158 5	--	--	--	--	--	--	--
80 7080.00					SAN JOAQUIN RIVER NEAR GRAYSON												
04/03/75	5050	13.0C	9.4	7.7			--	--	--	--	--	--	--	--	--	--	--
1250	5050				--		--	--	--	52 5	7	--	--	--	--	--	--
06/25/75	5050	19 C	8.0				--	--	--	--	--	--	--	--	--	--	--
0845	5001				--		--	--	--	143 8	21	--	--	--	--	--	--
06/25/75	5050	19 C	8.0	7.9		3	--	--	--	15 F	--	--	--	--	--	--	--
0845	5050	526			--		--	--	--	--	--	--	--	--	--	--	--
07/23/75	5050	24 C	6.8	7.7		3	--	--	--	15 F	--	--	--	--	--	--	--
0905	5050	982			--		--	--	--	--	--	--	--	--	--	--	--
08/27/75	5050	24.0C	6.7	7.6			--	--	--	--	--	--	--	--	--	--	--
1300	5050	800			--		--	--	--	151 5	--	--	--	--	--	--	--
80 7200.00					SAN JOAQUIN RIVER AT PATTERSON BRIDGE												
06/24/75	5050	20 C	8.6	7.9			--	--	--	--	--	--	--	--	--	--	--
1230	5001	494			--		--	--	--	73 8	13	--	--	--	--	--	--
06/24/75	5050	20 C	8.6	7.9		3	--	--	--	9.6 F	--	--	--	--	--	--	--
1230	5050	494	34.86		--		--	--	--	--	--	--	--	--	--	--	--
07/22/75	5050	28 C	8.9	8.1		3	--	--	--	13 F	--	--	--	--	--	--	--
1220	5050	756			--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	19 C	8.1	7.8		3	--	--	--	2.8 B	--	--	--	--	--	--	--
1315	5050	386	55.63		--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	19 C	8.1	7.8		3	--	--	--	7.6 F	--	--	--	--	--	--	--
1316	5050	386	55.63		--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	19 C	8.1	7.8		3	--	--	--	8.4 F	--	--	--	--	--	--	--
1317	5050	386	55.63		--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	19.0C	8.1	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1318	5001	386	55.63		--		--	--	--	49 5	15	--	--	--	--	--	--
80 7250.00					SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE												
06/24/75	5050	20 C	8.1	7.9			--	--	--	--	--	--	--	--	--	--	--
1140	5001	464			--		--	--	--	54 8	15	--	--	--	--	--	--
06/24/75	5050	20 C	8.1	7.9		3	--	--	--	9.1 F	--	--	--	--	--	--	--
1140	5050	464	41.18		--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20 C	8.0	7.7		3	--	--	--	2.5 B	--	--	--	--	--	--	--
1230	5050	342			--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20 C	8.0	7.7		3	--	--	--	7.0 F	--	--	--	--	--	--	--
1231	5050	342			--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20 C	8.0	7.7		3	--	--	--	7.7 F	--	--	--	--	--	--	--
1232	5050	342			--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20.0C	8.0	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1233	5001	342			--		--	--	--	42 5	13	--	--	--	--	--	--
80 7375.00					SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE												
04/03/75	5050	13.0C	8.8	7.5			--	--	--	--	--	--	--	--	--	--	--
0830	5050	1002	57.87		--		--	--	--	63 5	12	--	--	--	--	--	--
05/21/75	5050	20.0C		8.0			--	--	--	--	20	--	--	--	--	--	--
1315	5050	900			--		--	--	--	74 5	--	--	--	--	--	--	--
05/28/75	5050	23.0C	10.3	6.2			--	--	--	--	--	--	--	--	--	--	--
1100	5050	1000	56.26		--		--	--	--	95 5	--	--	--	--	--	--	--
06/24/75	5050	21 C	7.8	8.0		2	--	--	--	18 F	--	--	--	--	--	--	--
1035	5050	1145	55.67		--		--	--	--	--	--	--	--	--	--	--	--
06/24/75	5050	21 C	7.6	8.0			--	--	--	--	--	--	--	--	--	--	--
1035	5001	1145			--		--	--	--	105 8	19	--	--	--	--	--	--
07/22/75	5050	28 C	7.3	7.9		2	--	--	--	14 F	--	--	--	--	--	--	--
1035	5050	813			--		--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	24 C		7.4			--	--	--	7.0 B	41	--	24	--	--	--	--
1130	5050	1000			--		--	--	--	152 5	--	--	--	--	--	--	--
08/27/75	5050	23.0C	7.4	7.6			--	--	--	--	--	--	--	--	--	--	--
1000	5050	900	57.11		--		--	--	--	126 5	--	--	--	--	--	--	--

TABLE O-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SET S -

DATE TIME	SAMP LAB	TEMP EC	DO O.M.	F-PH L-PH	DISCH MBAS	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 OOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
		80 7375.00			SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE							CONTINUED					
09/30/75	5050	21 C	7.8	8.0			--	--	--	4.1 B	--	--	--	--	--	--	--
1110	5050	744	56.55		--		--	--	--	105 S	19	--	--	--	--	--	--
09/30/75	5050	21 C	7.8	8.0		1	--	--	--	12 F	--	--	--	--	--	--	--
1111	5050	744	56.55		--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	21 C	7.8	8.0		1	--	--	--	14 F	--	--	--	--	--	--	--
1112	5050	744	56.55		--		--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	21.0C	7.8	8.0		1	--	--	--	--	--	--	--	--	--	--	--
1113	5001	744	56.55		--		--	--	--	69 S	16	--	--	--	--	--	--
		80 7710.00			SAN JOAQUIN RIVER NEAR MENDOTA												
04/08/75	5050	13.5C	10.9	7.6			--	--	--	--	--	--	--	--	--	--	--
1000	5050	320	3.08		--		--	--	--	42 S	5	--	--	--	--	--	--
09/11/75	5050	23.0C	7.3	7.6			--	--	--	--	--	--	--	--	--	--	--
1000	5050	330	3.46		--		--	--	--	55 S	--	--	--	--	--	--	--
		80 7885.00			SAN JOAQUIN RIVER AT FRIANT DAM												
04/02/75	5050	10.0C	10.0	7.0			--	--	--	--	--	--	--	--	--	--	--
0720	5050	52	2.07		--		--	--	--	7 S	2	--	--	--	--	--	--
05/27/75	5050	53.0F	12.0	7.5			--	--	--	--	--	--	--	--	--	--	--
1000	5050	100	2.47		--		--	--	--	8 S	--	--	--	--	--	--	--
09/16/75	5050	11.5C	6.4	6.8			--	--	--	--	--	--	--	--	--	--	--
0700	5050	30	2.16		--		--	--	--	13 S	--	--	--	--	--	--	--
		80 7886.50			SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE												
10/08/74	5050	9.5C	11.0	6.8			--	--	--	0.8 B	--	--	--	--	--	--	--
0615	5050	30			--		--	--	--	6 S	4	--	--	--	--	--	--
07/09/75	5050	11.5C	9.3	6.8			--	--	--	2.0 B	61	--	--	--	--	--	--
0700	5050	30			--		--	--	--	--	--	--	--	--	--	--	--
		83 1400.50			STANISLAUS RIVER AT PARROTTS FERRY BRIDGE												
06/18/75	5050	13.0C	10.0	8.3			--	--	--	0.4 B	2	--	--	--	--	--	--
1130	5050	25			--		--	--	--	--	--	--	--	--	--	--	--
09/17/75	5050	16.5C	9.4	7.3			--	--	--	0.9 B	2	--	--	--	--	--	--
1230	5050	35			--		--	--	--	--	--	--	--	--	--	--	--
		83 2110.10			STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PAR												
06/18/75	5050	12.0C	9.9	6.8			--	--	--	1.0 B	4	--	--	--	--	--	--
1330	5050	10			--		--	--	--	--	--	--	--	--	--	--	--
09/17/75	5050	19.0C	8.2	7.2			--	--	--	1.0 B	2	--	--	--	--	--	--
1400	5050	28			--		--	--	--	--	--	--	--	--	--	--	--
		83 3255.00			STANISLAUS RIVER MIDDLE FORK AT BEARDSLEY												
06/18/75	5050	9.0C	9.9	8.3			--	--	--	0.8 B	1	--	--	--	--	--	--
0900	5050	25			--		--	--	--	--	--	--	--	--	--	--	--
09/17/75	5050	16.0C	8.6	7.2			--	--	--	1.4 B	2	--	--	--	--	--	--
0930	5050	35			--		--	--	--	--	--	--	--	--	--	--	--
		83 3480.10			STANISLAUS RIVER MIDDLE FORK AT DARDANELLE												
06/18/75	5050	4.9C	9.9	8.1			--	--	--	0.4 B	1	--	--	--	--	--	--
0630	5050	20			--		--	--	--	--	--	--	--	--	--	--	--
09/17/75	5050	14.5C	8.3	7.0			--	--	--	0.6 B	0	--	--	--	--	--	--
0800	5050	20			--		--	--	--	--	--	--	--	--	--	--	--
		84 1231.50			SULLIVAN CREEK AT JACKSONVILLE ROAD												
04/23/75	5050	12.0C	11.5	8.3	72.3		--	--	--	1.1 B	--	--	--	--	--	--	--
1030	5050	90			--		--	--	--	13 S	--	--	--	--	--	--	--
		84 1232.50			WOODS CREEK AT SLATE CREEK												
04/23/75	5050	13.0C	13.5	8.4	15.4		--	--	--	1.7 B	--	--	--	--	--	--	--
1000	5050	220			--		--	--	--	9 S	--	--	--	--	--	--	--
		84 1235.50			WOODS CREEK BELOW JAMESTOWN STP												
04/23/75	5050	11.3C	10.5	8.2	12.0		--	--	--	2.2 R	--	--	--	--	--	--	--
0830	5050	220			--		--	--	--	17 S	--	--	--	--	--	--	--
		84 1238.50			WOODS CREEK BELOW SONORA STP												
04/23/75	5050	11.0C	9.7	8.1	6.9		--	--	--	6.7 B	--	--	--	--	--	--	--
0800	5050	247			--		--	--	--	10 S	--	--	--	--	--	--	--
		84 1239.50			WOODS CREEK AT COUNTY FAIRGROUNDS												
04/23/75	5050	11.0C	9.7	8.2	3.7		--	--	--	1.1 B	--	--	--	--	--	--	--
0730	5050	260			--		--	--	--	35 S	--	--	--	--	--	--	--
		84 1241.50			WOODS CREEK AT JACK PADE ROAD ABOVE SONORA												
04/23/75	2163	10.9C	9.3	8.0	3.2		--	--	--	1.0 B	--	--	--	--	--	--	--
0615	5050	212			--		--	--	--	23 S	--	--	--	--	--	--	--
		84 1290.10			TUOLUMNE RIVER AT WARDS FERRY BRIDGE												
06/04/75	5050	11.7C	11.0	6.8			--	--	--	0.9 B	4	--	--	--	--	--	--
1100	5050	12			--		--	--	--	--	--	--	--	--	--	--	--
09/24/75	5050	27.0C	8.1	7.4			--	--	--	2.9 B	4	--	--	--	--	--	--
1230	5050	50			--		--	--	--	--	--	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O.M.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T-L CHLOR	SET S O-D COLOR	ML/L MG/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T DOGR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
		84 1600.00			TUOLUMNE RIVER ABOVE EARLY INTAKE												
06/04/75 0900	5050 5050	9.8C 10	10.6	6.0	--		-- --	-- --	-- --	0.7 B --	3 --	-- --	-- --	-- --	-- --	-- --	-- --
09/24/75 0930	5050 5050	13.8C 9	9.6	6.8	--		-- --	-- --	-- --	0.5 B --	2 --	-- --	-- --	-- --	-- --	-- --	-- --
		84 1850.10			TUOLUMNE RIVER AT TUOLUMNE MEADOWS												
06/04/75 0830	5050 5050	2.1C A	9.5	6.8	--		-- --	-- --	-- --	0.7 B --	2 --	-- --	-- --	-- --	-- --	-- --	-- --
09/24/75 0700	5050 5050	8.3C 18	7.9	7.0	--		-- --	-- --	-- --	0.8 B --	1 --	-- --	-- --	-- --	-- --	-- --	-- --
		85 1320.00			MERCED RIVER AT BAGBY												
11/13/74 1530	5050 5050	21.5C 63	11.2	7.1	--		-- --	-- --	-- --	0.8 B 1 5	-- 1	-- --	-- --	-- --	-- --	-- --	-- --
		85 1410.10			MERCED RIVER ABOVE BRICEBURG												
11/13/74 1330	5050 5050	10.0C 40	12.0	7.3	--		-- --	-- --	-- --	0.8 B 1 5	-- 1	-- --	-- --	-- --	-- --	-- --	-- --
		85 1517.10			MERCED RIVER BELOW EL PORTAL												
11/13/74 1130	5050 5050	8.6C 37	11.1	7.2	--		-- --	-- --	-- --	1.1 B 2 5	-- 2	-- --	-- --	-- --	-- --	-- --	-- --
		85 1519.50			MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140												
11/13/74 0930	5050 5050	7.2C 30	8.1	6.8	--		-- --	-- --	-- --	0.4 B 4 5	-- 2	-- --	-- --	-- --	-- --	-- --	-- --
		85 1700.00			MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE												
11/13/74 0715	5050 5050	4.8C 23	11.3 1.37	7.0	--		-- --	-- --	-- --	0.6 B 3 5	-- 3	-- --	-- --	-- --	-- --	-- --	-- --
		85 5152.10			BEAR CREEK ABOVE BEAR CREEK RESERVOIR												
02/05/75 1445	5050 5050	9.5C 75	10.8	7.5	300 E --		-- --	-- --	-- --	1.2 B 15 5	-- 6	-- --	-- --	-- --	-- --	-- --	-- --
03/12/75 1100	5050 5050	11.5C 132	10.6	8.0	65.1 --		-- --	-- --	-- --	1.0 B 1 5	-- 0	-- --	-- --	-- --	-- --	-- --	-- --
04/16/75 1430	5050 5050	15.5C 185	9.5	7.9	15 --		-- --	-- --	-- --	1.1 B 9 5	-- 4	-- --	-- --	-- --	-- --	-- --	-- --
		85 6152.50			BURNS CREEK AT MERCED MARIPOSA COUNTY LINE												
02/05/75 1625	5050 5050	11.5C 105	10.2	7.5	50 E --		-- --	-- --	-- --	1.3 B 15 5	-- 6	-- --	-- --	-- --	-- --	-- --	-- --
03/12/75 0930	5050 5050	10.7C 156	10.5	7.4	35.1 --		-- --	-- --	-- --	1.2 B 3 5	-- 2	-- --	-- --	-- --	-- --	-- --	-- --
04/16/75 0915	5050 5050	12.0C 205	10.3	8.0	8.0 --		-- --	-- --	-- --	1.8 B 9 5	-- 4	-- --	-- --	-- --	-- --	-- --	-- --
		86 2020.10			OWENS CREEK ABOVE OWENS RESERVOIR												
02/05/75 1250	5050 5050	10.0C 115	10.8	7.8	75 E --		-- --	-- --	-- --	2.2 B 23 5	-- 8	-- --	-- --	-- --	-- --	-- --	-- --
03/12/75 0920	5050 5050	11 C 210	11.0	8.2	12.2 --		-- --	-- --	-- --	1.4 B 6 5	-- 2	-- --	-- --	-- --	-- --	-- --	-- --
04/16/75 1245	5050 5050	15.0C 249	8.4	11.3	--		-- --	-- --	-- --	2.1 B 13 5	-- 6	-- --	-- --	-- --	-- --	-- --	-- --
		86 2204.10			MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR												
02/05/75 1040	5050 5050	8.5C 80	11.1	7.4	200 E --		-- --	-- --	-- --	1.4 B 27 5	-- 7	-- --	-- --	-- --	-- --	-- --	-- --
03/12/75 1100	5050 5050	12.2C 121	11.3	8.2	121 --		-- --	-- --	-- --	1.2 B 2 5	-- 1	-- --	-- --	-- --	-- --	-- --	-- --
04/16/75 1200	5050 5050	12.0C 135	10.9	8.2	--		-- --	-- --	-- --	1.3 B 23 5	-- 6	-- --	-- --	-- --	-- --	-- --	-- --
		87 1340.00			SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY												
10/08/74 0830	5050 5050	9.7C 22	0.6	6.8	--		-- --	-- --	-- --	0.7 B 3 5	-- 3	-- --	-- --	-- --	-- --	-- --	-- --
07/09/75 0930	5050 5050			6.8	--		-- --	-- --	-- --	0.9 B --	4 --	-- --	-- --	-- --	-- --	-- --	-- --
		87 1532.50			SAN JOAQUIN RIVER BELOW SMAKEFLAT CREEK												
10/08/74 1245	5050 5050	18.5C 50	9.7	7.3	--		-- --	-- --	-- --	0.7 B 0 5	-- 0	-- --	-- --	-- --	-- --	-- --	-- --
07/09/75 1230	5050 5050	13.0C 15	10.2	8.1	--		-- --	-- --	-- --	1.2 B --	3 --	-- --	-- --	-- --	-- --	-- --	-- --
		87 4250.50			SAN JOAQUIN RIVER SOUTH FORK AT MOND HOT SPRINGS												
10/09/74 1200	5050 5050	8.5C 20	9.4	6.9	--		-- --	-- --	-- --	0.6 B 0 5	-- 0	-- --	-- --	-- --	-- --	-- --	-- --
07/08/75 0930	5050 5050	17.0C 25	7.4	6.8	--		-- --	-- --	-- --	0.8 B --	1 --	-- --	-- --	-- --	-- --	-- --	-- --

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O.M.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T-L CHLOR	O-G COLOR	SET S ML/L MO/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
C0 2550.30 KAWEAH RIVER AT LEMONCOVE																	
10/16/74	5050	21.1C	9.8	7.5			--	--	--	1.1 R	--	--	--	--	--	--	--
1430	5050	120			--		--	--	--	8 5	5	--	--	--	--	--	--
04/23/75	5050	57.0F	11.2				--	--	--	1.4 B	3	--	--	--	--	--	--
1400	5050	112			--		--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	23.5C	8.6	7.1			--	--	--	0.6 B	1	--	--	--	--	--	--
1400	5050	50			--		--	--	--	--	--	--	--	--	--	--	--
C0 3195.00 TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE																	
10/30/74	5050	18.0C	7.8	7.7			--	--	--	2.0 C	--	--	--	--	--	--	--
1500	5050	232			--		--	--	--	30 5	7	--	--	--	--	--	--
04/09/75	5050	13.5C	11.8	7.8			--	--	--	2.2 R	5	--	--	--	--	--	--
1320	5050	180			--		--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	24.0C	8.0	7.0			--	--	--	2.5 B	5	--	--	--	--	--	--
1430	5050	145			--		--	--	--	--	--	--	--	--	--	--	--
C0 5180.10 KERN RIVER AT HART PARK																	
10/02/74	5050		9.6	7.7			--	--	--	0.6 B	--	--	--	--	--	--	--
1300	5050				--		--	--	--	5 5	4	--	--	--	--	--	--
07/23/75	5050	23.0C	8.3	7.4			--	--	--	0.8 R	3	--	--	--	--	--	--
1400	5050	97			--		--	--	--	--	--	--	--	--	--	--	--
C0 5180.10 KERN RIVER AT RANCHERIA BRIDGE																	
10/02/74	5050		9.3	7.7			--	--	--	0.9 R	--	--	--	--	--	--	--
1200	5050				--		--	--	--	3 5	3	--	--	--	--	--	--
07/23/75	5050	23.0C	8.2	7.5			--	--	--	1.2 R	2	--	--	--	--	--	--
1330	5050	93			--		--	--	--	--	--	--	--	--	--	--	--
C1 1115.50 KINGS RIVER NEAR PIEDRA																	
10/23/74	5050	16.5C	10.2	7.2			--	--	--	0.8 R	--	--	--	--	--	--	--
1545	5050	25			--		--	--	--	4 5	4	--	--	--	--	--	--
05/07/75	5050	11.0C	11.9	8.4			--	--	--	0.8 R	2	--	--	--	--	--	--
1100	5050	30			--		--	--	--	--	--	--	--	--	--	--	--
C1 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR																	
10/23/74	5050	19.0C	10.1	7.9			--	--	--	0.8 B	--	--	--	--	--	--	--
1330	5050	130	1.38		--		--	--	--	4 5	3	--	--	--	--	--	--
05/07/75	5050	13.0C	10.3	7.4			--	--	--	0.9 B	2	--	--	--	--	--	--
1230	5050	50	2.86		--		--	--	--	--	--	--	--	--	--	--	--
C1 1480.00 KINGS RIVER BELOW NORTH FORK																	
10/23/74	5050	15.0C	10.6	7.3			--	--	--	0.2 B	--	--	--	--	--	--	--
1215	5050	45			--		--	--	--	1 5	1	--	--	--	--	--	--
05/07/75	5050	12.8C	10.9	7.2			--	--	--	0.9 R	2	--	--	--	--	--	--
1340	5050	30	5.26		--		--	--	--	--	--	--	--	--	--	--	--
C1 4115.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE																	
10/23/74	5050	7.1C	10.1	7.3			--	--	--	0.1 B	--	--	--	--	--	--	--
0830	5050	34			--		--	--	--	0 5	0	--	--	--	--	--	--
05/07/75	5050	5.0C	11.4	7.6	700		--	--	--	0.5 B	2	--	--	--	--	--	--
0730	5050	22			--		--	--	--	--	--	--	--	--	--	--	--
C2 1210.30 KAWEAH RIVER ABOVE LAKE KAWEAH																	
10/16/74	5050	20.0C	9.6	7.6			--	--	--	0.4 B	--	--	--	--	--	--	--
1245	5050	125			--		--	--	--	5 5	3	--	--	--	--	--	--
04/23/75	5050	57.0F	10.4	7.5			--	--	--	1.1 B	2	--	--	--	--	--	--
1300	5050				--		--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	25.5C	8.0	7.8			--	--	--	0.5 B	1	--	--	--	--	--	--
1300	5050	80			--		--	--	--	--	--	--	--	--	--	--	--
C2 2010.30 KAWEAH RIVER NORTH FORK NEAR MOUTH																	
10/16/74	5050	15.7C	9.6	7.6			--	--	--	0.5 R	--	--	--	--	--	--	--
0950	5050	158			--		--	--	--	9 5	4	--	--	--	--	--	--
04/23/75	5050	53.0F	10.8	7.4			--	--	--	0.9 B	2	--	--	--	--	--	--
1015	5050	84			--		--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	24.0C	8.1	7.6			--	--	--	0.4 B	1	--	--	--	--	--	--
0930	5050	118			--		--	--	--	--	--	--	--	--	--	--	--
C2 3147.00 KAWEAH RIVER MF BELOW NO 2 INTAKE NR THREE RIVERS																	
10/16/74	5050	18.0C	9.2	7.6			--	--	--	0.5 B	--	--	--	--	--	--	--
0820	5050	82			--		--	--	--	4 5	4	--	--	--	--	--	--
04/23/75	5050	47.0F	12.0	7.4			--	--	--	0.9 R	2	--	--	--	--	--	--
0900	5050	54			--		--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	21.5C	8.1	7.2			--	--	--	0.7 B	1	--	--	--	--	--	--
0830	5050	52			--		--	--	--	--	--	--	--	--	--	--	--
C2 4201.50 KAWEAH RIVER SOUTH FORK ABOVE GROUSE CREEK																	
10/16/74	5050	18.3C	9.0	7.7			--	--	--	0.7 R	--	--	--	--	--	--	--
1115	5050	140			--		--	--	--	10 5	4	--	--	--	--	--	--
04/23/75	5050	50.0F	11.0	7.5			--	--	--	0.8 R	2	--	--	--	--	--	--
1150	5050	98			--		--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	27.0C	8.2	8.0			--	--	--	0.4 B	1	--	--	--	--	--	--
1130	5050	110			--		--	--	--	--	--	--	--	--	--	--	--

TABLE D-4 (Cont'd)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

SET 5

DATE TIME	SAMP LAB	TEMP EC	DO O.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 OOOR	BROMIDE SULFITE	T SULF D SULF	CC EAT CA EAT
		C3 1929.30			TULE RIVER BELOW SPRINGVILLE												
10/30/74	5050	13.7C	12.1	8.3			--	--	--	1.9 C	--	--	--	--	--	--	--
1140	5050	275			--		--	--	--	31 5	3	--	--	--	--	--	--
04/09/75	5050	10.2C	11.2	8.2			--	--	--	1.2 R	3	--	--	--	--	--	--
1100	5050	130			--		--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	24.5C	9.2	8.0			--	--	--	2.1 R	4	--	--	--	--	--	--
1200	5050	300	3.44		---		--	--	--	--	--	--	--	--	--	--	--
		C3 2190.10			TULE RIVER NORTH FORK AT BEAR CREEK ROAD												
10/30/74	5050	12.0C	10.0	7.7			--	--	--	1.2 C	--	--	--	--	--	--	--
0945	5050	271			--		--	--	--	15 5	3	--	--	--	--	--	--
04/09/75	5050	8.5C	11.1	7.4			--	--	--	1.7 R	3	--	--	--	--	--	--
0920	5050	62			--		--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	23.0C	8.0	7.2			--	--	--	1.7 8	5	--	--	--	--	--	--
1000	5050	260			--		--	--	--	--	--	--	--	--	--	--	--
		C3 3200.00			TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILL												
10/30/74	5050	8.2C	10.3	8.2			--	--	--	1.4 C	--	--	--	--	--	--	--
0800	5050	232	2.50		--		--	--	--	37 5	3	--	--	--	--	--	--
04/09/75	5050	4.7C	12.1	8.2			--	--	--	1.8 R	3	--	--	--	--	--	--
0800	5050	180			--		--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	15.5C	8.1	8.2			--	--	--	0.8 8	3	--	--	--	--	--	--
0830	5050	215			--		--	--	--	--	--	--	--	--	--	--	--
		C3 4149.30			TULE RIVER SOUTH FORK ABOVE CREW CREEK												
10/30/74	5050	15.0C	9.6	7.7			--	--	--	2.7 C	--	--	--	--	--	--	--
1340	5050	146			--		--	--	--	16 5	4	--	--	--	--	--	--
04/09/75	5050	11.2C	10.8	7.6			--	--	--	1.4 8	4	--	--	--	--	--	--
1200	5050	98			--		--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	27.0C	8.1	8.1			--	--	--	1.0 8	2	--	--	--	--	--	--
1300	5050	155			--		--	--	--	--	--	--	--	--	--	--	--
		C5 1220.10			KERN RIVER AT MIRACLE HOT SPRINGS												
10/02/74	5050		8.6	7.4			--	--	--	1.2 8	--	--	--	--	--	--	--
1000	5050				--		--	--	--	2 5	2	--	--	--	--	--	--
07/23/75	5050	21.0C	8.2	7.5			--	--	--	1.6 R	2	--	--	--	--	--	--
1130	5050	90			--		--	--	--	--	--	--	--	--	--	--	--
		C5 1500.00			KERN RIVER AT KERNVILLE												
10/02/74	5050		9.7	7.5			--	--	--	1.6 R	--	--	--	--	--	--	--
0745	5050				--		--	--	--	12 5	5	--	--	--	--	--	--
07/23/75	5050	18.0C	8.6	7.6			--	--	--	0.6 R	1	--	--	--	--	--	--
0930	5050	75			--		--	--	--	--	--	--	--	--	--	--	--
		C5 1660.10			KERN RIVER ABOVE FAIRVIEW												
10/02/74	5050		6.3	7.6			--	--	--	0.5 8	--	--	--	--	--	--	--
0630	5050				--		--	--	--	1 5	1	--	--	--	--	--	--
07/23/75	5050	16.5C	8.1	7.4			--	--	--	0.8 R	0	--	--	--	--	--	--
0800	5050	65			--		--	--	--	--	--	--	--	--	--	--	--
		C5 3110.10			KERN RIVER SOUTH FORK NEAR WELDON												
10/02/74	5050		8.4	8.1			--	--	--	6.1 8	--	--	--	--	--	--	--
0915	5050				--		--	--	--	12 5	6	--	--	--	--	--	--
		80 7020.00			SAN JOAQUIN RIVER NEAR VERNALIS												
10/02/74	5001	19 C	6.9	7.6		3	--	--	--	--	--	--	--	--	--	--	--
1035	5050	345			--		--	--	--	26 5	7	--	--	--	--	--	--
10/16/74	5001	19 C	7.3	7.6	2700	3	--	--	--	--	--	--	--	--	--	--	--
1030	5050	500	12.37		--		--	--	--	35 5	12	--	--	--	--	--	--
10/17/74	5050	64 F	7.0	7.2			--	--	--	4.2 8	5	--	--	--	--	--	--
0800	5050	400	12.75		--		--	--	--	--	--	--	--	--	--	--	--
11/06/74	5001	14 C	8.7	7.3	4500	3	--	--	--	--	--	--	--	--	--	--	--
1425	5050	330	14.49		--		--	--	--	28 5	4	--	--	--	--	--	--
11/18/74	5001	15 C	8.9	7.3	3670	3	--	--	--	--	--	--	--	--	--	--	--
1320	5050	440	13.57		--		--	--	--	20 5	2	--	--	--	--	--	--
11/21/74	5050	13.0C	8.8	7.3			--	--	--	2.0 8	6	--	--	--	--	--	--
0900	5050	310	13.35		--		--	--	--	--	--	--	--	--	--	--	--
12/17/74	5001	12 C	10.1	7.6	4510	3	--	--	--	--	--	--	--	--	--	--	--
1300	5050	375	14.62		--		--	--	--	26 5	4	--	--	--	--	--	--
12/19/74	5050	10.0C	8.7	7.2			--	--	--	2.0 8	6	--	--	--	--	--	--
0900	5050	358	12.67		--		--	--	--	--	--	--	--	--	--	--	--

TABLE D-4 (Cont'd)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T-L CHLOR	O-Q COLOR	SET S ML/L MG/L	BOD 5US 5		COD V 5US 5		CYANIDE PHENOLS	TOC DOC	IODIDE T DOOR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
		RO 7020.00			SAN JOAQUIN RIVER NEAR VERNALIS									CONTINUED					
01/21/75	5001	10 C	9.8	7.5	2750	3	--	--	--	--		--		--	--	--	--	--	--
1600	5050	645	12.56		--		--	--	--	32	5	12		--	--	--	--	--	--
02/03/75	5001	11 C	9.9		3320	3	--	--	--	--		--		--	--	--	--	--	--
1450	5050	633	13.27		--		--	--	--	40	5	5		--	--	--	--	--	--
03/18/75	5001	13 C	9.7	7.6	6420	3	--	--	--	--		--		--	--	--	--	--	--
1115	5050	408	13.58		--		--	--	--	48	5	5		--	--	--	--	--	--
04/01/75	5001	13 C	9.7	7.6	6440	3	--	--	--	--		--		--	--	--	--	--	--
1240	5050	398	16.46		--		--	--	--	57	5	7		--	--	--	--	--	--
04/18/75	5001	15 C	9.4	7.4	3380	3	--	--	--	--		--		--	--	--	--	--	--
1410	5050	633	13.22		--		--	--	--	38	5	5		--	--	--	--	--	--
05/01/75	5001	19 C	8.9	7.8	2510	3	--	--	--	--		--		--	--	--	--	--	--
1335	5050	702	12.14		--		--	--	--	56	5	12		--	--	--	--	--	--
05/15/75	5001	18 C	9.5	7.8	3870	3	--	--	--	--		--		--	--	--	--	--	--
1210	5050	405	13.79		--		--	--	--	61	5	8		--	--	--	--	--	--
06/03/75	5001	19 C	8.9	7.3	6670	3	--	--	--	--		--		--	--	--	--	--	--
1700	5050	198	16.61		--		--	--	--	47	5	5		--	--	--	--	--	--
06/17/75	5001	19 C	8.7	7.6	7930	3	--	--	--	--		--		--	--	--	--	--	--
1615	5050	140	17.69		--		--	--	--	58	5	7		--	--	--	--	--	--
06/25/75	5050	19 C	8.2	7.8	2730	3	--	--	--	13	F	--		--	--	--	--	--	--
1010	5050	531	12.66		--		--	--	--	--		--		--	--	--	--	--	--
06/25/75	5050	19 C	8.2	7.8	2730	3	--	--	--	--		--		--	--	--	--	--	--
1011	5001	531	12.66		--		--	--	--	80	5	16		--	--	--	--	--	--
07/01/75	5001	21 C	9.8	8.2	2070	3	--	--	--	--		--		--	--	--	--	--	--
1535	5050	736	11.81		--		--	--	--	86	5	12		--	--	--	--	--	--
07/15/75	5001	22 C	8.7	8.2	1560	3	--	--	--	--		--		--	--	--	--	--	--
1510	5050	778	10.98		--		--	--	--	156	5	19		--	--	--	--	--	--
07/23/75	5001	25 C	7.4	7.4		3	--	--	--	--		--		--	--	--	--	--	--
1035	5001	865		7.4	--		--	--	--	164	5	25		--	--	--	--	--	--
08/12/75	5001	26.0C	9.4	7.2	1520	3	--	--	--	--		--		--	--	--	--	--	--
1615	5050	733	10.76		--		--	--	--	118	5	19		--	--	--	--	--	--
08/26/75	5001	25 C	7.3	7.7	1790	3	--	--	--	--		--		--	--	--	--	--	--
1200	5050	685	11.14		--		--	--	--	107	5	12		--	--	--	--	--	--
09/11/75	5001	22 C	7.9	7.8	2530	3	--	--	--	--		--		--	--	--	--	--	--
1410	5050	471	12.16		--		--	--	--	73	5	8		--	--	--	--	--	--
09/25/75	5001	23 C	7.4	7.8	3050	3	--	--	--	--		--		--	--	--	--	--	--
1330	5050	379	12.81		--		--	--	--	74	5	19		--	--	--	--	--	--
09/30/75	5050	19 C	8.1	7.8		3	--	--	--	--		--		--	--	--	--	--	--
1318	5001	386	55.63		--		--	--	--	49	5	15		--	--	--	--	--	--

TABLE D-5

NUTRIENT CONSTITUENTS OF SURFACE WATER

Abbreviations, Chemical Symbols, and Codes used in this table are:

Abbreviations

EC	Specific electrical conductance in micromhos at 25° Celsius
TURB	Turbidity in turbidity units C = Candle determination AF = Hach (field) determination
PH	Measure of acidity or alkalinity of water
D & DIS	Dissolved Concentration
T	Total Concentration
ORGN	Organic Nitrogen
NH_3 + ORGN	Ammonia plus Organic Nitrogen as N (total Kjeldahl)
O-PO_4	Orthophosphate as P
TOT P	Total Phosphate as P
REM	Remarks

Chemical Symbols

NO_2	Nitrite as N
NO_3	Nitrate as N
NH_3	Ammonia as N
$CACO_3$ T	Total Alkalinity (Bicarbonate)

Sampler (SAMP) and Laboratory (LAB) Codes

5050	Department of Water Resources

TABLE D-5

NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH.	DEPTH	TEMP	F-PH	F-EC LAB EC	TURB F-CO2	FIELD CACO3 P CACO3 T	D NO2 + NO3 T NH3	D NO2 D NO3	D ORG N T ORG N	D (NH3 + T ORG N)	D15 A.M.PO4	D O-PO4 T O-PO A	D TOT P T TOT P REM
									NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER						
	80	0109.30			WESTLEY WASTEWAY										
06/25/75	5050			18	C				--	--	--	--		--	--
0945	5001					458		73	0.09	0.99	1.30	0.90	--	0.18	0.51
	80	0349.10			NEWMAN WASTEWAY										
06/24/75	5050			19	C		35C		--	--	--	--		--	--
1030	5001					1070		214	0.30	1.70	0.70	1.30	--	0.27	0.49
09/30/75	5050			20	C	7.6	1290	17AF	--	--	.83	--		.19	--
1005	5001		3					274	.17	1.5	1.27	1.44	--	--	.29
	80	0470.00			SALT SLOUGH NR STEVINSON										
06/24/75	5050			20	C				--	--	--	--		--	--
0945	5001					993			0.15	1.34	0.90	1.00	--	0.06	0.35
07/22/75	5050			28	C	7.8	867	30AF	--	--	1.49	--		0.08	--
0950	5001		3					118	0.21	1.25	2.37	2.58	--	--	0.37
08/20/75	5050			23	C	7.3	1100		--	--	--	--		0.14	--
1100	5050						1090		--	1.7	--	--	--	--	--
	80	0936.30			BURKHARD DRAIN										
06/25/75	5050								--	--	--	--		--	--
	5001								0.07	2.70	0.46	0.50	--	0.14	0.46
	80	3115.00			STANISLAUS RIVER AT KOETITZ RANCH										
06/25/75	5050								--	--	--	--		0.05	--
1205	5001								0.04	0.55	0.06	0.20	0.09	--	--
07/23/75	5050			24	C	7.5	197	7AF	--	--	.19	--		.05	--
1110	5001		3					70	.01	.96	.43	.44	--	--	.11
	80	3185.00			STANISLAUS RIVER AT KNIGHTS FERRY										
06/18/75	5050			17.0C	8.1	28			0.02	0.00	--	--		--	--
1600	5050								--	0.02	--	0.2	--	--	0.02
09/17/75	5050			23.0C	7.8	65			0.	0.00	--	--		--	--
1700	5050								--	0.00	--	0.1	--	--	0.01
	80	4105.00			TUOLUMNE RIVER AT TUOLUMNE CITY										
06/25/75	5050			20	C		6C		--	--	--	--		--	--
1125	5001					530		86	0.01	0.88	0.40	0.30	--	0.06	0.15
07/23/75	5050			24	C	7.5	563	8AF	--	--	.49	--		.17	--
1005	5001		1					96	.01	.99	.85	.86	--	--	.29
	80	4175.00			TUOLUMNE RIVER AT LA GRANGE BRIDGE										
06/04/75	5050			21.0C	7.1	50			0.03	0.00	--	--		--	--
1300	5050								--	0.03	--	0.2	--	--	0.02
09/24/75	5050			13.3C	6.8	32			0.09	0.00	--	--		--	--
1400	5050								--	0.09	--	0.1	--	--	0.02
	80	4921.30			TURLOCK SEWAGE TREATMENT PLANT										
06/24/75	5050			21	C		6A5		--	--	--	--		--	--
1255	5001								1.70	3.30	5.90	6.00	--	4.00	6.60
09/30/75	5050			23	C	8.8	740	17AF	--	--	2.20	--		4.50	--
1345	5001		1					248	6.80	.52	8.00	14.8	--	--	6.00
	80	4942.30			MODESTO SEWAGE TREATMENT PLANT										
06/24/75	5050			22	C		32C		--	--	--	--		--	--
1405	5001					1650			5.8	--	5.20	11.0	--	--	4.80
09/30/75	5050			25	C	7.4	1510	128AF	--	--	4.7	--		.18	--
1455	5001		3					343	3.3	.17	8.3	11.6	--	--	6.0
	80	4974.30			TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 2										
06/25/75	5050			17	C		7C		--	--	--	--		--	--
1035	5001					230		60	0.01	1.18	0.04	0.20	--	0.02	0.03
	80	4975.30			TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 5										
06/24/75	5050			21	C		7C		--	--	--	--		--	--
1500	5001					369		99	--	--	--	0.90	--	--	0.37
09/30/75	5050			21	C	8.0	522	11AF	--	--	.59	--		.95	--
1545	5001		2					136	.61	3.20	.69	1.30	--	--	.70
	80	4976.30			TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 6 AND 7										
06/24/75	5050			19.5C	7.8	317	4C		--	--	--	--		--	--
1155	5001					317		103	0.05	2.00	0.16	0.80	--	0.19	0.26
09/30/75	5050			21	C	7.8	401	10AF	--	--	.45	--		.10	--
1250	5001		1					92	.05	2.60	.63	.68	--	--	.17
	80	5131.00			MERCED RIVER AT MILLIKEN BRIDGE										
06/24/75	5050			18	C	6.9	78	5C	--	--	--	--		--	--
0900	5001						78		0.05	0.26	0.08	0.20	--	0.03	0.08
07/22/75	5050			29	C	7.2	150	4AF	--	--	.54	--		.05	--
0910	5001		3					47	.06	1.60	.62	.68	--	--	.08
	80	5166.50			CANAL CREEK AT OAKDALE ROAD										
02/05/75	5050			10.5C	7.3	45			--	--	--	--		--	--
1730	5050	15 E							--	0.21	--	2.9	--	--	0.53
03/12/75	5050			15.2C	7.2	55			--	--	--	--		--	--
1530	5050	25.0							--	0.04	--	1.0	--	--	0.21
04/16/75	5050			17.8C	7.9	50			--	--	--	--		--	--
1630	5050	150							--	0.05	--	0.2	--	--	0.06

TABLE D-5 (Cont'd)

NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	F-PH LAB	F-EC EC	TURB F-CO2	CACO3 CACO3	FIELD P T	O NO2 + NO3 T NH3	O NO2 O NO3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER O ORG N T ORG N	O (NH3 + T ORG N)	DIS A.H.PO4	O O-PO4 T O-PO 4	O TOT P T TOT P	REM
80 6369.50																
OUTCHMAN CREEK AT BAXTER ROAD																
02/05/75	5050	4.10	9 C	7.2	90				--	--	--	--		--	--	
0650	5050								--	0.58	--	1.8	--	--	0.22	
03/12/75	5050		53.0F	7.9					--	--	--	--		--	--	
0720	5050	2.6							--	0.08	--	1.4	--	--	0.10	
04/16/75	5050	3.77	12.0C	8.3	212				--	--	--	--		--	--	
0755	5050								--	0.03	--	0.7	--	--	0.07	
80 6399.50																
DEADMAN CREEK AT BAXTER ROAD																
02/05/75	5050	4.50	9 C	7.2	70				--	--	--	--		--	--	
0705	5050								--	0.79	--	1.4	--	--	0.19	
03/12/75	5050		11.6C	7.5	126				--	--	--	--		--	--	
0800	5050	11.8							--	0.21	--	0.8	--	--	0.06	
04/16/75	5050	3.08	12.5C	7.9	172				--	--	--	--		--	--	
0815	5050								--	0.02	--	0.5	--	--	0.06	
80 7020.00																
SAN JOAQUIN RIVER NEAR VERNALIS																
10/02/74	5001		19 C	7.6	345	14AF			--	--	0.00	0.0		0.07	--	
1035	5001		3						0.06	0.64	0.40	0.46	--	--	0.16	
10/16/74	5001	12.37	19 C	7.6	500	24AF			--	--	0.67	0.7		0.10	--	
1030	5001	2700	3						0.03	0.84	1.13	1.16	--	--	0.23	
11/06/74	5001	14.49	14 C	7.3	330	16AF			--	--	0.53	0.6		0.06	--	
1425	5001	4500	3						0.07	0.66	0.67	0.74	--	--	0.11	
11/18/74	5001	13.57	15 C	7.3	440	10AF			--	--	0.71	0.8		0.08	--	
1320	5001	3670	3						0.09	0.52	0.85	0.94	--	--	0.13	
12/17/74	5001	14.62	12 C	7.6	375	9AF			--	--	0.23	0.3		0.07	--	
1300	5001	4510	3						0.07	0.47	0.31	0.38	--	--	0.11	
12/19/74	5050	12.67	10.0C	7.2	358				--	--	--	--		--	--	
0900	5050								--	0.57	--	--	--	--	--	
01/21/75	5001	12.56	10 C	7.5	645	8AF			--	--	0.38	0.5		0.09	--	
1600	5001	2750	3						0.12	0.95	0.50	0.62	--	--	0.17	
02/03/75	5001	13.27	11 C		633	16AF			--	--	0.66	0.8		0.08	--	
1450	5001	3325	3						0.14	0.76	0.90	1.04	--	--	0.19	
03/18/75	5001	16.38	13 C	7.6	408	22AF			0.72	0.01	0.4	--		0.09	--	
1115	5050	6420	3					64	0.05	0.71	0.5	0.55	--	--	0.15	
04/01/75	5001	16.40	13 C	7.6	398	25AF			0.71	0.01	0.5	--		0.05	--	
1240	5050	6440	3					62	0.03	0.70	0.8	0.63	--	--	0.14	
04/18/75	5001	13.22	15 C	7.4	633	26AF			1.	0.02	0.3	--		0.10	--	
1410	5050	3380	3					90	0.02	0.98	0.7	0.72	--	--	0.18	
05/01/75	5001	12.14	19 C	7.8	702	32AF			1.02	0.02	0.7	--		0.13	--	
1335	5050	2510	3					103	0.10	1.0	0.9	1.0	--	--	0.22	
05/15/75	5001	13.79	18 C	7.8	405	19AF			0.47	0.02	0.4	--		0.08	--	
1210	5050	3870	3					68	0.00	0.45	0.5	0.5	--	--	0.15	
06/03/75	5001	16.61	19 C	7.3	198	18AF			0.94	0.00	0.4	--		0.06	--	
1700	5050	6670	3					36	0.00	0.94	0.5	0.5	--	--	0.15	
06/17/75	5001	17.69	19 C	7.6	140	17AF			0.32	0.00	0.3	--		0.05	--	
1615	5050	7930	3					30	0.00	0.32	0.3	0.3	--	--	0.10	
06/25/75	5050		19 C	7.8	531	38AF			--	--	0.37	--		0.08	--	
1010	5001	2930	3					82	0.03	0.78	0.83	0.86	--	--	0.26	
07/01/75	5001		21 C	8.2	736	32AF			1.22	0.02	0.5	--		0.09	--	
1535	5050		3					119	0.00	1.2	1.0	1.0	--	--	0.27	
07/15/75	5001	10.93	22 C	8.2	778	50AF			1.11	0.01	0.2	--		0.09	--	
1510	5050		3						0.00	1.1	1.2	1.2	--	--	0.29	
07/23/75	5050		25 C	7.4	865	54AF			--	--	0.64	--		0.11	--	
1035	5001		3					108	0.06	1.30	1.46	1.52	--	--	0.32	
08/12/75	5001		26.0C	7.2	733	48AF			1.33	0.03	0.8	--		0.12	--	
1615	5050		3						0.03	1.3	1.0	1.03	--	--	0.12	
08/26/75	5001	11.14	25 C	7.7	685	31AF			1.22	0.02	0.6	--		0.07	--	
1200	5050	1790	3						0.01	1.2	1.0	1.01	--	--	0.24	
09/11/75	5001	12.16	22 C	7.8	471	19AF			0.92	0.01	0.6	--		0.06	--	
1410	5050	2530	3						0.00	0.91	0.7	0.7	--	--	0.13	
09/25/75	5001	12.81	23 C	7.8	379	19AF			0.7	0.01	0.4	--		0.06	--	
1330	5050	3050	3						0.00	0.89	0.4	0.4	--	--	0.26	
80 7040.00																
SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																
06/25/75	5050								--	--	--	--		--	--	
0850	5001								0.03	0.82	0.64	0.30	--	0.10	0.28	
07/23/75	5050		25 C	7.9	931	74AF			--	--	.87	--		.13	--	
0825	5001		3					115	.03	1.45	1.85	1.88	--	--	.39	
80 7080.00																
SAN JOAQUIN RIVER NEAR GRATSON																
06/25/75	5050		19 C			34C			--	--	--	--		--	--	
0845	5001				526			92	0.02	0.82	0.56	0.50	--	0.11	--	
07/23/75	5050		24 C	7.7	982	60AF			--	--	.50	--		.14	--	
0905	5001		3					148	.10	1.30	1.42	1.52	--	--	.36	
80 7200.00																
SAN JOAQUIN RIVER AT PATTERSON BRIDGE																
06/24/75	5050		20 C			26C		79	--	--	--	--		--	--	
1230	5001				494				0.04	0.66	0.48	0.50	--	0.09	0.25	
07/22/75	5050		28 C	8.1	756	54AF			--	--	1.08	--		.13	--	
1220	5001		3					108	.02	1.40	1.96	1.98	--	--	.33	

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	F-PH	F-EC LAB EC	TURB	FIELD CACO3 P F-CO2	CACO3 T	O NO2 + NO3 T NH3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER D NO2 O NO3	D ORG N T ORG N	D (NH3 + ORG N)	DIS A.H.PO4	O O-PO4 T O-PO 4	D TOT P T TOT P	REM
	80	7250.00			SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE											
06/24/75 1140	5A50 5A01		20	C		464	29C		-- 0.03	-- 0.40	-- 0.44	-- 0.40	--	-- 0.08	-- 0.21	
07/22/75 1140	5A50 5A01		28 3	C	8.1	706	5BAF	101	-- 0.01	0.92 --	1.19 1.99	-- 2.00	--	0.08 --	-- .20	
	80	7375.00			SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE											
05/21/75 1315	5C50 5F50		20	C	8.0	900 1040			-- --	-- 0.25	-- --	-- --	--	0.17 --	-- --	
06/24/75 1035	5F50 5A01		21	C		1145	35C		-- 0.03	-- 0.75	-- 1.54	-- 0.90	--	-- 0.08	-- 0.38	
07/22/75 1035	5C50 5A01		26 2	C	7.9	813	3BAF	108	-- 0.08	-- 0.71	1.52 2.66	-- 2.74	--	0.11 --	-- 0.43	
08/20/75 1130	5C50 5F50		24	C	7.4	1000 976			-- --	-- 3.7	-- --	-- --	--	0.14 --	-- --	
	80	7886.50			SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE											
10/08/74 0615	5A50 5J50		9.5C	6.8	30				-- --	-- 0.06	-- --	-- 0.2	--	0.00 --	-- 0.05	
07/09/75 0700	5C50 5J50		11.5C	6.8	30				0.05 --	0.00 0.05	-- --	-- 0.4	--	-- --	-- 0.08	
	83	1400.50			STANISLAUS RIVER AT PARROTTS FERRY BRIDGE											
06/18/75 1130	5F50 5J50		13.0C	8.3	25				0.02 --	0.00 0.02	-- --	-- 0.2	--	-- --	-- 0.04	
09/17/75 1230	5J50 5J50		16.5C	7.3	35				0.01 --	0.00 0.01	-- --	-- 0.1	--	-- --	-- 0.02	
	83	2110.10			STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PAR											
06/18/75 1330	5F50 5F50		12.0C	6.8	18				0.02 --	0.00 0.02	-- --	-- 0.1	--	-- --	-- 0.18	
09/17/75 1400	5J50 5J50		19.0C	7.2	28				0. --	0.00 0.00	-- --	-- 0.1	--	-- --	-- 0.01	
	83	3255.00			STANISLAUS RIVER MIDDLE FORK AT PEARDSLEY											
06/18/75 0900	5F50 5J50		9.8C	8.3	25				0.04 --	0.00 0.04	-- --	-- 0.2	--	-- --	-- 0.06	
09/17/75 0930	5F50 5J50		16.0C	7.2	35				0.01 --	0.00 0.01	-- --	-- 0.1	--	-- --	-- 0.13	
	83	3480.10			STANISLAUS RIVER MIDDLE FORK AT DAMDANELLE											
06/18/75 0630	5J50 5J50		4.9C	8.1	20				0.07 --	0.00 0.07	-- --	-- 0.2	--	-- --	-- 0.16	
09/17/75 0800	5J50 5J50		14.5C	7.0	20				0. --	0.00 0.00	-- --	-- 0.2	--	-- --	-- 0.02	
	84	1231.50			SULLIVAN CREEK AT JACKSONVILLE ROAD											
04/23/75 1030	2163 5J50	72.3	11.0C	8.3	90				0.01 --	0.00 0.01	-- --	-- 0.2	--	0.00 --	-- 0.02	
	84	1232.50			WOODS CREEK AT SLATE CREEK											
04/23/75 1000	2163 5J50	15.4	13.0C	8.4	220				0.47 --	0.02 0.45	-- --	-- 0.3	--	0.26 --	-- 0.28	
	84	1235.50			WOODS CREEK BELOW JAMESTOWN STP											
04/23/75 0830	2163 5F50	12.0	11.3C	8.2	220				0.69 --	0.04 0.65	-- --	-- 0.4	--	0.31 --	-- 0.35	
	84	1238.50			WOODS CREEK BELOW SONORA STP											
04/23/75 0800	2163 5F50	6.9	11.0C	8.1	247				0.51 --	0.07 0.44	-- --	-- 1.7	--	0.65 --	-- 0.65	
	84	1239.50			WOODS CREEK AT COUNTY FAIRGROUNDS											
04/23/75 0730	2163 5F50	3.7	11.0C	8.2	260				0.29 --	0.00 0.29	-- --	-- 0.1	--	0.00 --	-- 0.02	
	84	1241.50			WOODS CREEK AT JACK PAGE ROAD ABOVE SONORA											
04/23/75 0615	2163 5F50	3.2	10.9C	8.0	212				0.1 --	0.00 0.10	-- --	-- 0.1	--	0.00 --	-- 0.01	
	84	1290.10			TUOLUMNE RIVER AT WARDS FERRY BRIDGE											
06/04/75 1100	5F50 5F50		11.7C	6.8	12				0.01 --	0.00 0.01	-- --	-- 0.1	--	-- --	-- 0.04	
09/24/75 1230	5L50 5N50		27.0C	7.4	50				0.02 --	0.00 0.02	-- --	-- 0.5	--	-- --	-- 0.02	
	84	1680.00			TUOLUMNE RIVER ABOVE EARLY INTAKE											
06/04/75 0900	5L50 5F50		9.8C	6.8	10				0.02 --	0.00 0.02	-- --	-- 0.2	--	-- --	-- 0.02	
09/24/75 0930	5C50 5N50		13.8C	6.8	9				0.08 --	0.00 0.08	-- --	-- 0.1	--	-- --	-- 0.00	
	84	1850.10			TUOLUMNE RIVER AT TUOLUMNE MEADOWS											
06/04/75 0630	5F50 5N50		2.1C	6.8	4				0.03 --	0.00 0.03	-- --	-- 0.1	--	-- --	-- 0.00	
09/24/75 0700	5N50 5F50		8.9C	7.0	18				0.06 --	0.00 0.06	-- --	-- 0.1	--	-- --	-- 0.00	

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	F-PH	F-EC LAB EC	TURB	FIELD CACO3 F-CO2	P CACO3 T	D NO2 + NO3 T NH3	D NO2 O NO3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER D ORG N T ORG N	D (NH3 + T ORG N)	DIS A.H.PO4	D O-PO4 T O-PO 4	D TOT P T TOT P	REM
85 R 735.7 016.2 1 LAKE MCCLURE NEAR MCCLURE POINT																
07/10/75	5050			8.3					--	--	--	--		0.00	--	
	5050						50		0.00	0.00	--	--	--	--	0.01	
09/03/75	5050			6.8					--	--	--	--		0.01	--	
1425	5050						47		--	0.01	--	--	--	--	0.01	
85 R 736.2 006.1 1 LAKE MCCLURE AT INLET (HEAD)																
07/10/75	5050		18.5C	7.4					--	--	--	--		0.00	--	
0930	5050						18		0.01	0.01	--	--	--	--	0.01	
09/03/75	5050		20.5C	7.0					--	--	--	--		0.01	--	
1000	5050	147					57		--	0.16	--	--	--	--	0.03	
85 R 736.7 007.9 1 LAKE MCCLURE AT BAGBY																
07/10/75	5050			8.3					--	--	--	--		0.00	--	
	5050						34		0.01	0.00	--	--	--	--	0.01	
09/03/75	5050			7.0					--	--	--	--		0.00	--	
1100	5050						40		0.03	0.00	--	--	--	--	0.02	
85 R 738.8 017.3 1 LAKE MCCLURE AT BARRETT COVE																
07/10/75	5050			7.8					--	--	--	--		0.00	--	
	5050						48		0.01	0.00	--	--	--	--	0.00	
09/03/75	5050			7.0					--	--	--	--		0.00	--	
1400	5050						42		--	0.00	--	--	--	--	0.01	
85 R 740.5 013.8 1 LAKE MCCLURE AT LOWER HOURSESHOE BEND																
07/10/75	5050			7.2					--	--	--	--		0.00	--	
	5050						39		0.01	0.00	--	--	--	--	0.01	
09/03/75	5050			6.8					--	--	--	--		0.00	--	
	5050						37		--	0.00	--	--	--	--	0.01	
85 R 741.6 016.1 1 LAKE MCCLURE AT UPPER HOURSESHOE BEND																
07/10/75	5050			8.3					--	--	--	--		0.00	--	
	5050						40		0.02	0.00	--	--	--	--	0.01	
09/03/75	5050			6.9					--	--	--	--		0.01	--	
1305	5050						39		--	0.00	--	--	--	--	0.01	
85 1200.00 MERCED RIVER BELOW EXCHEQUER DAM																
09/03/75	5050		55.0F	7.5					--	--	--	--		0.00	--	
0800	5050	2040					29		0.00	0.07	--	--	--	--	0.01	
85 1320.00 MERCED RIVER AT BAGBY																
11/13/74	5050		21.5C	7.1	63				--	--	--	--		0.01	--	
1530	5050								--	0.01	--	0.1	--	--	0.02	
85 1410.10 MERCED RIVER ABOVE BRICEBURG																
11/13/74	5050		10.0C	7.3	40				--	--	--	--		0.01	--	
1330	5050								--	0.05	--	0.0	--	--	0.01	
85 1517.10 MERCED RIVER BELOW EL PORTAL																
11/13/74	5050		8.6C	7.3	37				--	--	--	--		0.02	--	
1130	5050								--	0.21	--	0.0	--	--	0.06	
85 1519.50 MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140																
11/13/74	5050		7.2C	6.8	30				--	--	--	--		0.02	--	
0930	5050								--	0.31	--	0.0	--	--	0.03	
85 1700.00 MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE																
11/13/74	5050	1.37	4.8C	7.0	23				--	--	--	--		0.00	--	
0715	5050								--	0.03	--	0.0	--	--	0.01	
85 5152.10 BEAR CREEK ABOVE BEAR CREEK RESERVOIR																
02/05/75	5050		9.5C	7.5	75				--	--	--	--		--	--	
1445	5050	300 E							--	0.35	--	0.5	--	--	0.09	
03/12/75	5050		11.5C	8.0	132				--	--	--	--		--	--	
1100	5050	65.1							--	0.04	--	0.3	--	--	0.03	
04/16/75	5050		* 15.5C	7.9	185				--	--	--	--		--	--	
1430	5050	15							--	0.03	--	0.2	--	--	0.04	
85 6152.50 BURNS CREEK AT MERCED MARIPOSA COUNTY LINE																
02/05/75	5050		11.5C	7.5	105				--	--	--	--		--	--	
1025	5050	50 E							--	0.89	--	0.6	--	--	0.07	
03/12/75	5050		10.7C	7.4	156				--	--	--	--		--	--	
0930	5050	35.1							--	0.20	--	0.5	--	--	0.04	
04/16/75	5050		12.0C	8.0	205				--	--	--	--		--	--	
0915	5050	8.0							--	0.05	--	0.3	--	--	0.03	
86 2020.10 OWENS CREEK ABOVE OWENS RESERVOIR																
02/05/75	5050		10.0C	7.8	115				--	--	--	--		--	--	
1250	5050	75 E							--	0.58	--	0.8	--	--	0.17	
03/12/75	5050		11 C	8.2	210				--	--	--	--		--	--	
0920	5050	12.2							--	0.08	--	0.6	--	--	0.07	
04/16/75	5050		15.0C	11.3	249				--	--	--	--		--	--	
1245	5050								--	0.04	--	0.4	--	--	0.07	

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	FIELD PH LAB	F-EC LAB EC	TURB F-CO2	CACO3 CACO3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER D NO2 + NO3 T NH3	O NO2 O NO3	O ORG N T ORG N	O (NH3 + ORG N) T ORG N)	DIS A.M.PO4	D O-PO4 T O-PO4	O TOT P T TOT P	REM
B6 2204.10 MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR															
02/05/75	5:50		8.5C	7.4	60			--	--	--	--		--	--	
1040	5:50	200 E						--	0.49	--	0.4	--	--	0.09	
03/12/75	5:50			8.2	121			--	--	--	--		--	--	
1100	5:50	121						--	0.15	--	0.3	--	--	0.04	
04/16/75	5:50		12.0C	8.2	135			--	--	--	--		--	--	
1200	5:50							--	0.12	--	0.3	--	--	0.07	
B7 1340.00 SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY															
10/08/74	5:50		9.7C	6.8	22			--	--	--	--		0.00	--	
0830	5:50							--	0.03	--	0.1	--	--	0.02	
07/09/75	5:50		12.5C	6.8	15			0.03	0.00	--	--		--	--	
0930	5:50							--	0.03	--	0.1	--	--	0.00	
B7 1532.50 SAN JOAQUIN RIVER BELOW SHAKEFLAT CREEK															
10/08/74	5:50		18.5C	7.3	50			--	--	--	--		0.00	--	
1245	5:50							--	0.04	--	0.1	--	--	0.01	
07/09/75	5:50		13.0C	8.1	15			0.02	0.00	--	--		--	--	
1230	5:50							--	0.02	--	0.2	--	--	0.00	
B7 4250.50 SAN JOAQUIN RIVER SOUTH FORK AT MONO HOT SPRINGS															
10/09/74	5:50		8.5C	6.9	20			--	--	--	--		0.00	--	
1200	5:50							--	0.00	--	0.1	--	--	0.01	
07/08/75	5:50		17.0C	6.8	25			0.01	0.00	--	--		--	--	
0930	5:50							--	0.01	--	0.1	--	--	0.00	
C0 2550.30 KAWEAH RIVER AT LEMONCOVE															
10/16/74	5:50		21.1C	7.5	120			--	--	--	--		0.01	--	
1430	5:50							--	0.06	--	0.2	--	--	0.02	
04/23/75	5:50		57.0F		112			0.02	0.00	--	--		--	--	
1400	5:50							--	0.02	--	0.3	--	--	0.04	
08/06/75	5:50		23.5C	7.1	50			0.02	0.00	--	--		--	--	
1400	5:50							--	0.02	--	0.3	--	--	0.05	
C0 3195.00 TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE															
10/30/74	5:50		18.0C	7.7	232			--	--	--	--		0.05	--	
1500	5:50							--	0.37	--	0.6	--	--	0.10	
04/09/75	5:50		13.5C	7.8	180			0.01	0.00	--	--		--	--	
1320	5:50							--	0.01	--	0.3	--	--	0.04	
08/20/75	5:50		24.0C	7.0	145			0.04	0.01	--	--		--	--	
1430	5:50							--	0.03	--	0.6	--	--	0.08	
C0 5160.10 KERN RIVER AT HART PARK															
10/02/74	5:50			7.7				--	--	--	--		0.02	--	
1300	5:50							--	0.17	--	0.2	--	--	0.06	
07/23/75	5:50		23.0C	7.4	97			0.2	0.03	--	--		--	--	
1400	5:50							--	0.17	--	0.4	--	--	0.06	
C0 5180.10 KERN RIVER AT RANCHERIA BRIDGE															
10/02/74	5:50			7.7				--	--	--	--		0.02	--	
1200	5:50							--	0.17	--	0.2	--	--	0.03	
07/23/75	5:50		23.0C	7.5	93			0.23	0.03	--	--		--	--	
1330	5:50							--	0.20	--	0.3	--	--	0.04	
C1 1115.50 KINGS RIVER NEAR PIEDRA															
10/23/74	5:50		16.5C	7.2	25			--	--	--	--		0.01	--	
1545	5:50							--	0.02	--	0.2	--	--	0.02	
05/07/75	5:50		11.0C	8.4	30			0.02	0.00	--	--		--	--	
1100	5:50							--	0.02	--	0.1	--	--	0.00	
C1 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR															
10/23/74	5:50	1.38	19.0C	7.9	130			--	--	--	--		0.00	--	
1330	5:50							--	0.00	--	0.1	--	--	0.04	
05/07/75	5:50	2.86	13.0C		50			0.02	0.00	--	--		--	--	
1230	5:50							--	0.02	--	0.1	--	--	0.03	
C1 1460.00 KINGS RIVER BELOW NORTH FORK															
10/23/74	5:50		15.0C	7.3	45			--	--	--	--		0.01	--	
1215	5:50							--	0.00	--	0.1	--	--	0.02	
05/07/75	5:50	5.26	12.8C	7.2	30			0.01	0.00	--	--		--	--	
1340	5:50							--	0.01	--	0.1	--	--	0.09	
C1 4115.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE															
10/23/74	5:50		7.1C	7.3	34			--	--	--	--		0.00	--	
0830	5:50							--	0.08	--	0.1	--	--	0.01	
05/07/75	5:50		5.0C	7.6	22			0.02	0.00	--	--		--	--	
0730	5:50	700						--	0.02	--	0.1	--	--	0.00	
C2 1210.30 KAWEAH RIVER ABOVE LAKE KAWEAH															
10/16/74	5:50		20.0C	7.6	125			--	--	--	--		0.00	--	
1245	5:50							--	0.02	--	0.1	--	--	0.01	
04/23/75	5:50		57.0F	7.5				0.	0.00	--	--		--	--	
1300	5:50							--	0.00	--	0.2	--	--	0.01	
08/06/75	5:50		25.5C	7.8	80			0.	0.00	--	--		--	--	
1300	5:50							--	0.00	--	0.1	--	--	0.01	

TABLE D-5 (Cont'd)

NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP	F-PH	F-EC LAB EC	TURB	FIELD CACO3 P F-CO2 CACO3 T	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER D NO2 + NO3 T NH3	D NO2 D NO3	D ORG N T ORG N	D (NH3 + ORG N)	D15 A.M.PO4	D O-PO4 T O-PO 4	D TOT P T TOT P	REM
C2 2010.30 KAWEAH RIVER NORTH FORK NEAR MOUTH															
10/16/74	5050		15.7C	7.6	158			--	--	--	--		0.00	--	
0950	5050							--	0.02	--	0.2	--	--	0.02	
04/23/75	5050		53.0F	7.4	84			0.02	0.00	--	--		--	--	
1015	5050							--	0.02	--	0.2	--	--	0.02	
08/06/75	5050		24.0C	7.6	118			0.	0.00	--	--		--	--	
0930	5050							--	0.00	--	0.1	--	--	0.01	
C2 3147.00 KAWEAH RIVER HF BELOW NO 2 INTAKE NR THREE RIVERS															
10/16/74	5050		15.0C	7.6	82			--	--	--	--		0.00	--	
0820	5050							--	0.01	--	0.0	--	--	0.01	
04/23/75	5050		47.0F	7.4	54			0.04	0.00	--	--		--	--	
0900	5050							--	0.04	--	0.1	--	--	0.00	
08/06/75	5050		21.5C	7.2	52			0.05	0.00	--	--		--	--	
0830	5050							--	0.05	--	0.1	--	--	0.01	
C2 4201.50 KAWEAH RIVER SOUTH FORK ABOVE GROUSE CREEK															
10/16/74	5050		16.3C	7.7	140			--	--	--	--		0.00	--	
1115	5050							--	0.02	--	0.1	--	--	0.01	
04/23/75	5050		50.0F	7.5	98			0.02	0.00	--	--		--	--	
1150	5050							--	0.02	--	0.2	--	--	0.01	
08/06/75	5050		22.0C	8.0	110			0.	0.00	--	--		--	--	
1130	5050							--	0.00	--	0.1	--	--	0.01	
C3 1929.30 TULE RIVER BELOW SPRINGVILLE															
10/30/74	5050		13.9C	8.3	275			--	--	--	--		0.02	--	
1140	5050							--	0.14	--	0.4	--	--	0.08	
04/09/75	5050		10.2C	8.2	130			0.02	0.00	--	--		--	--	
1100	5050							--	0.02	--	0.1	--	--	0.02	
08/20/75	5050	3.44	24.5C	8.0	300			0.02	0.00	--	--		--	--	
1200	5050							--	0.02	--	0.3	--	--	0.03	
C3 2190.10 TULE RIVER NORTH FORK AT BEAR CREEK ROAD															
10/30/74	5050		12.0C	7.7	271			--	--	--	--		0.00	--	
0945	5050							--	0.01	--	0.2	--	--	0.02	
04/09/75	5050		8.5C	7.4	62			0.09	0.00	--	--		--	--	
0920	5050							--	0.09	--	0.1	--	--	0.01	
08/20/75	5050		23.0C	7.2	260			0.	0.00	--	--		--	--	
1000	5050							--	0.00	--	0.4	--	--	0.04	
C3 3200.00 TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILL															
10/30/74	5050	2.50	8.2C	8.2	232			--	--	--	--		0.00	--	
0800	5050							--	0.12	--	0.2	--	--	0.02	
04/09/75	5050		4.7C	8.2	180			0.	0.00	--	--		--	--	
0800	5050							--	0.00	--	0.2	--	--	0.01	
08/20/75	5050		15.5C	8.2	215			0.	0.00	--	--		--	--	
0830	5050							--	0.00	--	0.0	--	--	0.00	
C3 4149.30 TULE RIVER SOUTH FORK ABOVE CREW CREEK															
10/30/74	5050		15.0C	7.7	146			--	--	--	--		0.02	--	
1340	5050							--	0.22	--	0.4	--	--	0.06	
04/09/75	5050		11.2C	7.6	98			0.26	0.00	--	--		--	--	
1200	5050							--	0.26	--	0.2	--	--	0.03	
08/20/75	5050		27.0C	8.1	155			0.01	0.00	--	--		--	--	
1300	5050							--	0.01	--	0.2	--	--	0.04	
C5 1220.10 KERN RIVER AT MIRACLE HOT SPRINGS															
10/02/74	5050			7.4				--	--	--	--		0.02	--	
1000	5050							--	0.11	--	0.3	--	--	0.03	
07/23/75	5050		21.0	7.5	90			0.09	0.03	--	--		--	--	
1130	5050							--	0.06	--	0.5	--	--	0.03	
C5 1500.00 KERN RIVER AT KERNVILLE															
10/02/74	5050			7.5				--	--	--	--		0.01	--	
0745	5050							--	0.03	--	0.2	--	--	0.07	
07/23/75	5050		19.0C	7.6	75			0.01	0.00	--	--		--	--	
0930	5050							--	0.01	--	0.2	--	--	0.02	
C5 1860.10 KERN RIVER ABOVE FAIRVIEW															
10/02/74	5050			7.6				--	--	--	--		0.01	--	
0830	5050							--	0.00	--	0.0	--	--	0.01	
07/23/75	5050		16.5C	7.4	65			0.	0.00	--	--		--	--	
0800	5050							--	0.00	--	0.2	--	--	0.04	
C5 3110.10 KERN RIVER SOUTH FORK NEAR WELDON															
10/02/74	5050			8.1				--	--	--	--		0.13	--	
0915	5050	0.3						--	0.02	--	0.4	--	--	0.24	

TABLE D-6

PESTICIDES IN SURFACE WATER

Abbreviations and Codes used in this table are:

Abbreviations

TIME	Pacific Standard Time on a 24-hour clock
TEMP	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
EC	Specific electrical conductance in micromhos at 25° Celsius
DO	Dissolved oxygen content in milligrams per litre
PH	Measure of acidity or alkalinity of water
GH	Gage height in feet above an established datum
DEP	Depth in feet at which sample was collected
DISCHARGE	Instantaneous discharge in cubic feet per second

Pesticide Codes

Chlorinated Hydrocarbons

Code	Most Common Name
ATRAZSIMAZ	Atriazine and/or Simazine
CHLORDANE	Chlordane
DACTHAL	Dacthal, DCPA
UNKNOWNS	Complex chlorinated hydrocarbon compound mixture reported as DDT, one or more
NONE DETECTED	No detectable amount of Chlorinated Hydrocarbons

Organic Phosphorus

DIAZINON	Diazinon
UNKNOWNS	Complex organic phosphorus mixture reported as Parathion, one or more
NONE DETECTED	No detectable amount of Organic Phosphorus

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-6

PESTICIDES IN SURFACE WATER
COMPOUNDS REPORTED IN MILLIGRAMS/LITER

DATE TIME	SAMP LAB	TEMP EC	DO PH	G.H. DEP DISCHARGE	CHLORINATED HYDROCARBON		ORGANIC PHOSPHORUS		OTHER	
				SALT SLOUGH NEAR STEVINSON B0 0470.00						
11/20/74 1200	5050 5050	13.0C 1200	8.0 7.6		.00003 DACTHAL		NONE DETECTED			
05/21/75 1230	5050 5050	17 C 1300	7.4		.0004 UNKNOWNS		.000475 DIAZINON		.00012 UNKNOWNS	
08/20/75 1100	5050 5050	23.0C 1100			.00034 UNKNOWNS		.00001 DIAZINON		.00003 UNKNOWNS	
				TUOLUMNE RIVER AT TUOLUMNE CITY B0 4105.00						
05/28/75 1400	5050 5050	24.0C 400	7.5 7.3	24.10	NONE DETECTED		NONE DETECTED			
				TUOLUMNE RIVER AT LA GRANGE BRIDGE B0 4175.00						
05/29/75 0830	5050 5050	11.0C 30	10.0 7.0		NONE DETECTED		.00002 UNKNOWNS			
				MERCED RIVER AT MILLIKEN BRIDGE B0 5131.00						
05/28/75 1200	5050 5050	21.0C 70	8.1 8.1		NONE DETECTED		.000055 UNKNOWNS			
				SAN JOAQUIN RIVER NEAR VERNALIS B0 7020.00						
11/21/74 0900	5050	13.0C 310	8.8 7.3	13.35	NONE DETECTED		NONE DETECTED			
01/21/75 1600	5001 5050	10 C 645	9.8 7.5	12.46 1	NONE DETECTED					
05/01/75 1235	5001 5050	19 C 702	8.9 7.8	12.14 1 2510	NONE DETECTED					
09/11/75 1410	5001 5050	22 C 471	7.9 7.8	12.16 1 2530	.00005 UNKNOWNS					
				SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE B0 7040.00						
05/28/75 1330	5050 5050	24.0C 500	9.0 7.9	17.53	.000025 DACTHAL		.00002 DIAZINON		.00001 PARATHION	
				SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE B0 7375.00						
11/20/74 1230	5050 5050	13.0C 1150	9.5 7.6		NONE DETECTED		NONE DETECTED			
05/21/75 1315	5050 5050	20 C 900	8.0		.00054 UNKNOWNS		.00008 DIAZINON		.00005 UNKNOWNS	
				STANISLAUS RIVER BELOW TULLOCH DAM B3 1158.10						
05/29/75 0630	5050 5050	13.0C 32	11.0 8.4		NONE DETECTED		.00005 UNKNOWNS			
				MERCED RIVER BELOW EXCHEQUER DAM B5 1200.00						
05/29/75 0930	5050 5050	12.0C 35	9.3 7.2		NONE DETECTED		.000015 UNKNOWNS			
				KAWEAH RIVER BELOW TERMINUS DAM C0 2185.00						
05/28/75 0815	5050 5050	14.0C 50	11.1 7.2		NONE DETECTED		.000025 UNKNOWNS			
				TULE RIVER BELOW SUCCESS DAM C0 3196.00						
05/27/75 1600	5050 5050	14.0C 170	11.2 7.4	3.94	NONE DETECTED		NONE DETECTED			
				KERN RIVER NEAR BAKERSFIELD C0 5150.00						
05/27/75 1150	5050 5050	20.0C 115	9.8 8.0		NONE DETECTED		.000025 UNKNOWNS			
				BIG CREEK ABOVE PINE FLAT RESERVOIR C1 1320.00						
05/28/75 1000	5050 5050	12.5C 40	11.8 7.2	6.87	NONE DETECTED		.00003 UNKNOWNS			

APPENDIX E

GROUND WATER QUALITY DATA

INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1975 water year (October 1, 1974, through September 30, 1975). 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 125. 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.

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

Abbreviations, Chemical Symbols, and Codes used in this table are:

Abbreviations

EC	Specific electrical conductance in micromhos at 25° Celsius
NCH	Noncarbonate Hardness
SAR	Sodium Adsorption Ratio
SUM	Summation of Analyzed Constituents
TDS	Total Dissolved Solids
TEMP	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
TH	Total Hardness
TIME	Pacific Standard Time on a 24-hour clock
PH	Measure of acidity or alkalinity of water

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 laboratory 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 laboratory 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 laboratory electrical conductivity are not within 20 percent of each other.

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	Sulphate

Sampler (SAMP) and Laboratory (LAB) Codes

5050	Department of Water Resources
5121	Kern County Water Agency
5191	Agricultural Technical Services Company
5205	City of Delano
5617	Semitropic Water Storage District
5647	Tehachapi-Cummings Water District
5701	California Water Service Company
5802	Twining Laboratory - Fresno
5806	B. C. Laboratory

TABLE E-1

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																			
06/09/75 1000	025/ 8E-29R01 5050 5050	M	75.2F 24.0C	8.1	320 383	38 1.90 46	10 .82 20	28 1.22 30	6.4 .16 4	0 .00	222 3.64 89	7.2 .15 4	4.7 .13 3	12.0 .19 5	.10	-- --	256 216	136 0	1.0		
06/09/75 1005	025/ 8E-29R02 5050 5050	M	68.0F 20.0C	8.2	600 633	45 2.25 33	19 1.56 23	66 2.87 42	4.1 .10 1	0 .00	344 5.64 82	18 .37 5	15 .42 6	30.0 .48 7	.00	-- --	390 366	193 0	2.1		
06/09/75 1035	025/ 8E-32F01 5050 5050	M	73.4F 23.0C	8.2	430 485	40 2.30 44	16 1.32 25	33 1.44 28	6.2 .16 3	0 .00	266 4.36 84	10 .21 4	13 .37 7	14.0 .23 4	.00	-- --	308 269	182 0	1.1		
06/09/75 1015	025/ 8E-33F01 5050 5050	M	71.6F 22.0C	8.1	270 308	20 1.30 43	8.3 .68 23	21 .91 30	5.1 .13 4	0 .00	146 2.39 78	3.6 .07 2	15 .42 14	11.0 .18 6	.00	-- --	211 162	100 0	0.9	T	
05/19/75 1400	035/ 7E-13H01 5050 5050	M	66 F 19 C	7.8	720 723	59 2.94 38	27 2.22 29	56 2.44 32	3.1 .08 1	0 .00	341 5.59 74	29 .60 8	.5 .01	81.0 1.31 17	.10	-- --	462 423	258 0	1.5		
05/19/75 1330	035/ 7E-23H01 5050 5050	M	66 F 19 C	8.1	670 644	57 2.84 42	24 1.97 29	44 1.91 28	3.6 .09 1	0 .00	242 4.79 71	21 .44 7	33 .93 14	34.0 .55 8	.10	-- --	395 360	240 1	1.2		
05/19/75	035/ 7E-29N01 5050 5050	M	65 F 18 C	8.0	1800 1760	113 5.64 32	38 3.13 18	204 8.87 50	1.8 .05	0 .00	322 5.28 30	261 5.43 30	248 6.99 39	11.0 .18 1	1.70	-- --	1120 1037	440 175	4.2		
06/09/75 1020	035/ 8E-05N01 5050 5050	M	71.6F 22.0C	8.2	320 370	34 1.70 45	10 .82 22	26 1.13 30	4.6 .12 3	0 .00	186 3.05 80	10 .21 5	11 .31 8	16.0 .26 7	.10	-- --	246 203	128 0	1.0		
06/09/75 1125	035/ 8E-05R01 5050 5050	M	73.4F 23.0C	8.4	1090	40 2.00 19	37 3.04 29	120 5.22 50	6.2 .16 2	10 .33 3	474 7.77 73	32 .67 6	36 1.02 10	54.0 .87 8	.20	-- --	622 568	252 0	3.3		
05/20/75 1330	035/ 8E-14M01 5050 5050	M	66 F 19 C	7.9	625 626	58 2.89 46	22 1.81 29	36 1.57 25	2.9 .07 1	0 .00	232 3.80 60	40 .83 13	20 .56 9	70.0 1.13 18	.10	-- --	438 363	237 45	1.0		
05/19/75 1430	035/ 8E-18K01 5050 5050	M	66 F 19 C	8.2	800 782	63 3.14 37	26 2.14 26	70 3.05 36	2.2 .06 1	0 .00	394 6.46 76	36 .75 9	24 .68 8	41.0 .66 8	.20	-- --	491 456	265 0	1.9		
05/20/75 0800	035/ 8E-20D01 5050 5050	M	66 F 19 C	7.8	500 492	47 2.35 45	20 1.64 31	27 1.17 22	1.9 .05 1	0 .00	249 4.08 79	14 .29 6	9.4 .28 5	31.0 .50 10	.00	-- --	320 273	200 0	0.8		
05/20/75 0830	035/ 8E-21N01 5050 5050	M	66 F 19 C	7.8	600 575	56 2.79 46	21 1.73 28	35 1.52 25	2.2 .06 1	0 .00	278 4.56 76	21 .44 7	14 .39 7	38.0 .61 10	.10	-- --	368 324	226 0	1.0		
05/20/75 0945	035/ 8E-22P01 5050 5050	M	66 F 19 C	7.8	500 569	56 2.79 47	19 1.56 26	36 1.57 26	2.1 .05 1	0 .00	265 4.34 73	31 .65 11	18 .51 9	29.0 .47 8	.10	-- --	372 322	216 1	1.1		
05/20/75 1500	035/ 8E-25C01 5050 5050	M	66 F 19 C	7.9	600 594	63 3.14 50	20 1.64 26	34 1.48 23	2.5 .06 1	0 .00	279 4.57 73	30 .62 10	17 .48 8	37.0 .60 10	.10	-- --	408 341	239 11	1.0		
05/21/75 1100	035/ 9E-08K01 5050 5050	M	65 F 20 C	7.7	300 288	23 1.15 40	8.1 .67 23	22 .96 33	4.1 .10 3	0 .00	135 2.21 77	7.1 .15 5	11 .31 11	13.0 .21 7	.10	-- --	220 155	91 0	1.0		E T
05/21/75 1310	035/ 9E-16N02 5050 5050	M	69 F 21 C	7.8	500 529	48 2.40 44	17 1.40 26	35 1.52 28	4.5 .12 2	0 .00	233 3.82 71	17 .35 6	31 .87 16	23.0 .37 7	.00	-- --	348 290	190 0	1.1		
05/21/75 1050	035/ 9E-19C01 5050 5050	M	66 F 19 C	7.8	410 412	34 1.70 41	14 1.15 27	29 1.26 30	3.1 .08 2	0 .00	208 3.28 77	13 .27 6	11 .31 7	24.0 .39 9	.10	-- --	288 227	144 0	1.1	T	
05/21/75 1050	035/ 9E-22A01 5050 5050	M	66 F 19 C	7.8	410 431	38 1.90 43	12 .99 22	33 1.44 33	3.9 .10 2	0 .00	187 3.06 70	29 .60 14	11 .31 7	26.0 .42 10	.00	-- --	288 245	144 0	1.2		
05/21/75 1250	035/ 9E-23E01 5050 5050	M	68 F 20 C	7.8	430 444	44 2.20 46	16 1.32 28	26 1.13 24	3.5 .09 2	0 .00	211 3.46 75	31 .65 14	6.6 .19 4	20.0 .32 7	.00	-- --	298 251	174 3	0.9		

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TH NCH	SAR	PER
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER						
						CENTRAL VALLEY SAN JOAQUIN VALLEY															
03S/10E-12L01		M																			
05/20/75	5050		68	F	266	20	5.1	28	3.4	0	127	1.8	9.6	14.0	.00	--		147	71		
1345	5050		20	C 7.9	267	1.00	.42	1.22	.09	.00	2.08	.04	.27	.23		--		144	0	1.4	
						37	15	45	3		79	2	10	9							
03S/10E-26E01		M																			
05/20/75	5050		67	F	360	20	11	26	4.6	0	144	5.4	27	14.0	.10	--		232	111		
1400	5050		19	C 8.0	350	1.30	.90	1.13	.12	.00	2.36	.11	.76	.23		--		185	0	1.1	T
						38	26	33	3		68	3	22	7							
03S/11E-28E01		M																			
05/20/75	5050		66	F	680	56	24	58	3.0	0	374	31	12	23.0	.00	--		397	240		
0930	5050		16	C 8.2	675	2.79	1.97	2.52	.08	.00	6.13	.65	.34	.37		--		391	0	1.6	
						38	27	34	1		82	9	5	5							
03S/11E-34C04		M																			
05/20/75	5050		75	F	360	29	17	17	3.4	0	167	10	9.4	26.0	.00	--		254	141		E
0900	5050		24	C 8.1	357	1.45	1.40	.74	.09	.00	2.74	.21	.27	.42		--		194	6	0.6	T
						39	38	20	2		75	6	7	12							
03S/12E-05C01		M																			
05/21/75	5050		67	F	300	22	12	18	3.2	0	156	5.9	6.6	4.1	.00	--		214	104		E
1230	5050		19	C 7.6	286	1.10	.99	.78	.08	.00	2.56	.12	.19	.07		--		149	0	0.8	T
						37	34	26	3		87	4	6	2							
03S/12E-19N01		M																			
05/20/75	5050		64	F	246	18	10	15	2.8	0	116	1.8	7.9	10.0	.00	--		194	86		E
1440	5050		18	C 8.1	242	.90	.82	.65	.07	.00	1.90	.04	.22	.16		--		123	0	0.7	T
						37	34	27	3		82	2	9	7							
03S/12E-20N01		M																			
05/19/75	5050		67	F	94	7.6	4.4	2.1	2.3	0	49	6.2	.0	.4	.00	--		62	37		
1740	5050		16	C 7.8	91	.38	.36	.09	.06	.00	.80	.13	.00	.01		--		47	0	0.2	T
						43	40	10	7		85	14		1							
03S/12E-26J01		M																			
05/21/75	5050		69	F	234	15	7.9	16	4.0	0	99	4.1	9.7	14.0	.00	--		169	70		E
1300	5050		21	C 7.9	224	.75	.65	.70	.10	.00	1.62	.09	.27	.23		--		119	0	0.8	T
						34	30	32	5		73	4	12	10							
03S/12E-27P01		M																			
05/19/75	5050		64	F	143	8.2	4.7	13	2.2	0	77	2.3	1.2	2.0	.00	--		144	40		E
1730	5050		2	C 7.9	140	.41	.39	.57	.06	.00	1.26	.05	.03	.03		--		71	0	0.9	T
						29	27	40	4		92	4	2	2							
03S/12E-35M01		M																			
05/19/75	5050		70	F	220	10	5.1	17	5.1	0	73	3.6	13	7.3	.00	--		174	46		E
1715	5050		21	C 8.0	190	.50	.42	.74	.13	.00	1.20	.07	.37	.12		--		97	0	1.1	T
						28	23	41	7		68	4	21	7							
03S/13E-25L01		M																			
05/19/75	5050		68	F	600	43	7.8	55	3.0	0	79	14	127	11.0	.00	--		419	139		
1600	5050		20	C 7.5	604	2.15	.64	2.39	.08	.00	1.29	.29	3.58	.18		--		300	75	2.0	T
						41	12	45	2		24	5	67	3							
03S/13E-29N01		M																			
05/19/75	5050		68	F	214	13	5.7	15	6.1	0	75	3.8	17	5.5	.00	--		171	56		E
1445	5050		20	C 7.8	202	.65	.47	.65	.16	.00	1.23	.08	.48	.09		--		103	0	0.9	T
						34	24	34	8		65	4	26	5							
03S/13E-31L01		M																			
05/19/75	5050				85	2.4	1.0	12	3.2	0	41	2.3	2.0	.4	.00	--		104	10		E
1700	5050			7.6	81	.12	.08	.52	.08	.00	.67	.05	.06	.01		--		43	0	1.6	T
						15	10	65	10		85	6	8	1							
03S/13E-33B01		M																			
05/19/75	5050		70	F	300	22	9.5	19	5.9	0	122	6.6	21	10.0	.00	--		232	94		E
1630	5050		21	C 7.8	301	1.10	.78	.83	.15	.00	2.00	.14	.59	.16		--		154	0	0.9	T
						36	27	29	5		69	5	20	6							
03S/14E-18B01		M																			
05/19/75	5050		68	F	400	21	13	13	.9	0	139	15	5.4	.7	.00	--		157	108		X
1300	5150		21	C 7.9	266	1.05	1.07	.57	.02	.00	2.28	.31	.15	.01		--		137	0	0.6	
						39	39	21	1		83	11	5								
06S/08E-06Q01		M																			
10/17/74	5050		70	F		--	--	--	--	--	--	--	97	38.0	.70	--			562		
1100	5050		21	C	1760								2.74	.61		--					S
07S/08E-03L01		M																			
05/21/75	5050		76	F	1058	96	50	57	3.2	0	343	152	66	54.0	.20	--		700	447		
1200	5050		24	C 8.0	1060	4.79	4.11	2.48	.08	.00	5.62	3.16	1.86	.87		--		647	164	1.2	
						42	36	22	1		49	27	16	8							
07S/08E-14A01		M																			
05/21/75	5050		68	F	1660	134	71	102	4.0	0	449	162	208	42.0	.40	--		1050	626		
1130	5050		20	C 7.8	1650	6.69	5.84	4.44	.10	.00	7.36	3.37	5.97	1.00		--		964	259	1.8	
						39	34	26	1		42	19	33	6							S
07S/08E-17M01		M																			
05/21/75	5050		69	F	1014	90	47	64	4.1	0	412	146	50	6.8	.40	--		635	420		
0900	5050		21	C 8.0	1020	4.49	3.87	2.78	.10	.00	6.75	3.04	1.41	.11		--		611	81	1.4	
						40	34	25	1		60	27	12	1							
07S/08E-19K01		M																			
05/21/75	5050		68	F	812	63	41	52	3.6	0	300	155	24	6.0	.40	--		531	327		
0940	5050		20	C 8.2	810	3.14	3.37	2.26	.09	.00	4.92	3.23	.68	.10		--		493	80	1.3	
						35	38	26	1		55	36	8	1							

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	FC	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																			
	07S/09E-04N01	M																			
05/22/75 0700	5050 5150		63 17	F C 7.9	3960 3950	200 10.28 24	147 12.09 28	485 21.10 48	8.8 .23 1	0 .00	530 8.69 19	854 17.78 40	640 18.05 40	15.0 .24 1	2.20	-- --	2810 2619	1120 685	6.3		E S
	07S/09E-27P01	M																			
05/22/75 1155	5050 5150				8.0	746 739	58 2.89 38	23 1.89 25	62 2.70 36	1.8 .05 1	0 .00	197 3.23 42	151 3.14 41	38 1.07 14	13.0 .21 3	.40	-- --	489 444	240 78	1.7	
	07S/09E-31G01	M																			
05/21/75 1350	5050 5150		67 19	F C 8.0		1374 1350	102 5.09 30	45 3.70 26	120 5.22 37	2.1 .05	0 .00	351 5.75 40	181 3.77 26	145 4.09 29	42.0 .68 5	.70	-- --	914 810	439 152	2.5	
	07S/09E-32L01	M																			
05/21/75 1415	5050 5150		68 2	F C 7.9		1246 1250	76 3.79 30	58 4.77 38	92 4.00 32	2.6 .07 1	0 .00	308 5.05 39	171 3.56 27	134 3.78 29	30.0 .58 4	.50	-- --	830 722	428 176	1.9	S
	07S/10E-15F01	M																			
05/22/75 0915	5050 5150		72 22	F C 8.3		1270 1280	14 .70 5	2.9 .24 2	284 12.15 92	3.3 .08 1	0 .00	619 10.15 75	39 .81 6	94 2.65 19	.4 .01	.40	-- --	806 742	47 0	18.0	
	07S/15E-18D01	M																			
05/22/75 0800	5150 5050		68 2	F C 8.3		1224 1230	29 1.45 12	6.7 .55 4	235 10.22 83	3.9 .10 1	0 .00	504 8.26 65	46 .96 8	122 3.44 27	.4 .01	.30	-- --	744 691	100 0	10.2	S
	07S/10E-21F03	M																			
05/22/75 0910	5150 5150		71 22	F C 7.9		3400 3370	74 3.69 11	9.6 .79 2	640 27.84 86	7.2 .18 1	0 .00	614 10.06 30	110 2.29 7	752 21.21 63	.2 .00	.60	-- --	1910 1896	224 0	18.6	S
	07S/10E-23D01	M																			
05/22/75 1105	5150 5050		72 22	F C 8.3		3900 3850	86 4.09 10	14 1.15 3	840 36.54 87	8.4 .21 1	0 .00	1490 24.42 58	132 2.75 6	538 15.17 36	.5 .01	.90	-- --	2450 2348	264 0	22.6	
	07S/10E-24E01	M																			
05/22/75 1240	5150 5150		75 24	F C 8.3		912 918	39 1.95 20	16 1.32 14	147 6.39 66	2.9 .07 1	0 .00	441 7.23 74	49 1.02 10	48 1.35 14	12.0 .19 2	.10	-- --	592 531	165 0	5.0	
	07S/11E-01M01	M																			
05/23/75 0825	5050 5150		69 21	F C 8.1		504 498	47 2.35 43	16 1.32 24	36 1.57 29	8.5 .22 4	0 .00	251 4.11 77	22 .46 9	6.4 .18 3	38.0 .61 11	.00	-- --	343 297	181 0	1.2	
	07S/11E-18K01	M																			
05/22/75 1350	5050 5050		7 21	F C 8.1		1178 1200	31 1.55 13	4.7 .39 3	221 9.61 82	4.4 .11 1	0 .00	386 6.33 53	34 .71 6	173 4.88 41	.3 .00	.20	-- --	695 658	97 0	9.8	
	07S/11E-21P01	M																			
05/23/75 0730	5150 5050		66 19	F C 8.2		859 932	63 3.14 32	18 1.48 15	114 4.96 51	6.0 .15 2	0 .00	418 6.85 69	38 .79 8	76 2.14 21	12.0 .19 2	.10	-- --	581 533	232 0	3.3	
	07S/12E-03F01	M																			
05/27/75 0810	5150 5050		68 21	F C 8.1		186 182	12 .60 34	3.9 .32 18	18 .78 45	1.6 .04 2	0 .00	65 1.07 59	18 .37 20	4.0 .11 6	17.0 .27 15	.00	-- --	184 106	46 0	1.2	E T
	07S/12E-08E01	M																			
05/23/75 1010	5150 5050		68 2	F C 8.		420 416	35 1.75 40	14 1.15 26	33 1.44 33	1.9 .05 1	0 .00	192 3.15 72	20 .42 10	7.4 .21 5	37.0 .60 14	.00	-- --	298 243	144 0	1.2	E
	07S/13E-19M01	M																			
05/27/75 0920	5150 5150		68 21	F C 8.		330 325	33 1.65 49	13 1.07 32	14 .61 18	2.0 .05 1	0 .00	143 2.34 70	17 .35 10	6.4 .18 5	30.0 .48 14	.00	-- --	262 186	136 19	0.5	E T
	07S/13E-22N02	M																			
05/27/75 1440	5050 5050		7 21	F C 8.1		620 616	60 2.99 41	28 2.30 32	42 1.83 25	4.1 .10 1	0 .00	394 6.46 91	20 .42 6	3.5 .10 1	7.8 .13 2	.00	-- --	412 359	265 0	1.1	
	07S/14E-15H02	M																			
05/27/75 1030	5150 5150		68 20	F C 8.1		212 207	18 .80 30	8.0 .66 31	14 .61 29	1.3 .03 1	0 .00	107 1.75 81	8.6 .18 8	5.0 .14 6	6.5 .10 5	.00	-- --	179 112	73 0	0.7	E T
	07S/14E-28A02	M																			
05/27/75 1000	5150 5050		67 19	F C 8.0		452 442	40 2.00 41	21 1.73 35	25 1.09 22	3.3 .08 2	0 .00	284 4.65 93	11 .23 5	2.5 .07 1	4.2 .07 1	.00	-- --	302 247	188 0	0.8	
	07S/14E-31M01	M																			
05/27/75 0900	5050 5150		74 21	F C 8.2		322 309	23 1.15 37	7.4 .61 19	27 1.17 37	8.0 .20 6	0 .00	151 2.47 77	19 .40 12	7.4 .21 7	8.6 .14 4	.00	-- --	242 175	88 0	1.3	E T
	07S/14E-32E01	M																			
05/27/75 0930	5050 5050		71 21	F C 8.0		1076 1050	93 4.64 38	46 3.78 31	85 3.70 30	3.5 .09 1	0 .00	608 9.97 81	37 .77 6	39 1.10 9	30.0 .48 4	.10	-- --	668 633	420 0	1.8	

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										MILLIGRAMS PER LITER					REM
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TH NCH	SAR	
	CENTRAL VALLEY SAN JOAQUIN VALLEY																			
07S/15E-29Q01 M																				
05/27/75	5050	71 F		448	34	15	40	5.0	0	198	42	12	15.0	.00	--		302	147		
1220	5050	22 C	8.2	439	1.70	1.23	1.74	.13	.00	3.25	.87	.34	.24		--		260	0	1.4	
					35	26	36	3		69	19	7	5							
07S/15E-30E01 M																				
05/27/75	5050	67 F		742	66	38	46	3.0	0	328	102	13	28.0	.00	--		493	323		
1200	5050	19 C	8.1	734	3.29	3.13	2.00	.08	.00	5.38	2.12	.37	.45		--		457	52	1.1	
					39	37	24	1		65	25	4	5							
07S/15E-34J01 M																				
05/27/75	5050	71 F		464	40	19	32	4.1	0	284	12	4.0	5.8	.00	--		290	177		
1440	5050	22 C	8.1	451	2.00	1.56	1.39	.10	.00	4.65	.25	.11	.09		--		257	0	1.0	
					40	31	28	2		91	5	2	2							
07S/15E-36E01 M																				
05/27/75	5050	68 F		318	25	11	23	4.2	0	158	15	7.9	12.0	.00	--		240	109		E
1415	5050	20 C	8.2	316	1.25	.90	1.00	.11	.00	2.59	.31	.22	.19		--		176	0	1.0	T
					38	28	31	3		78	9	7	6							
08S/18E-09F01 M																				
10/16/74	5050	72 F			--	--	--	--	--	--	--	786	.5	3.00	--			292		
1100	5050	22 C		3710								22.17	.01		--					
																				S
10S/17E-08R80 M																				
08/26/75	5802				19	6.0	25	1.0	0	89	7.0	18	14.0	.10	--		209	72		E
	5802		8.0	200	.95	.49	1.09	.03	.00	1.46	.15	.51	.23		--		134	0	1.3	TC
					37	19	43	1		62	6	22	10							S
10S/17E-09F80 M																				
08/26/75	5802				22	5.0	25	1.0	0	119	7.0	18	9.0	.10	--		219	76		E
	5802		7.9	250	1.10	.41	1.09	.03	.00	1.95	.15	.51	.15		--		146	0	1.3	T
					42	16	41	1		71	5	18	5							
10S/17E-17A80 M																				
08/26/75	5802				22	5.0	20	1.0	0	89	7.0	14	24.0	.10	--		214	76		E
	5802		8.0	235	1.10	.41	.87	.03	.00	1.46	.15	.39	.39		--		137	3	1.0	T
					46	17	36	1		61	6	16	16							
14S/25E-03A01 M																				
01/14/75	5050	52 F		476	52	22	15	2.9	0	268	17	6.2	14.0	.00	--		313	226		
0845	5050	11 C	7.8	493	2.59	1.81	.65	.07	.00	4.39	.35	.17	.23		--		261	1	0.4	
					51	35	13	1		85	7	3	4							
14S/25E-03F01 M																				
01/14/75	5050			516	63	21	16	1.8	0	293	11	7.7	24.0	.00	--		305	242		
1300	5050		7.2	531	3.14	1.73	.70	.05	.00	4.80	.23	.22	.39		--		289	4	0.4	
					56	31	12	1		85	4	4	7							
14S/25E-04K01 M																				
01/14/75	5050			366	43	14	10	1.9	0	210	9.0	1.9	12.0	.00	--		254	170		
1445	5050		7.6	382	2.15	1.15	.44	.05	.00	3.44	.19	.05	.19		--		195	0	0.3	T
					57	30	12	1		89	5	1	5							
14S/25E-09C01 M																				
01/14/75	5050			418	35	15	31	3.0	0	202	12	6.2	43.0	.00	--		274	154		
0925	5050		7.3	445	1.75	1.23	1.35	.08	.00	3.31	.25	.17	.69		--		245	0	1.1	
					40	28	31	2		75	6	4	16							
14S/25E-10E01 M																				
01/14/75	5050			334	25	12	24	3.2	0	140	11	9.1	37.0	.00	--		222	114		
1400	5050		7.1	350	1.25	.99	1.04	.08	.00	2.29	.23	.26	.60		--		190	0	1.0	
					37	29	31	2		68	7	8	18							
14S/25E-10L01 M																				
01/14/75	5050			670	74	19	45	5.0	0	361	16	29	17.0	.00	--		423	270		
1045	5050		7.4	704	3.69	1.56	1.96	.13	.00	5.92	.33	.82	.27		--		383	0	1.2	
					50	21	27	2		81	4	11	4							
14S/25E-10R01 M																				
01/14/75	5050			314	31	10	18	3.3	0	153	6.1	8.2	20.0	.00	--		225	121		E
1115	5050		7.6	319	1.55	.82	.78	.08	.00	2.51	.13	.23	.32		--		172	0	0.7	T
					48	25	24	2		79	4	7	10							
14S/25E-11A01 M																				
01/14/75	5050			328	32	13	18	1.6	0	158	11	6.2	26.0	.00	--		246	134		E
1230	5050		7.5	336	1.60	1.07	.78	.04	.00	2.59	.23	.17	.42		--		185	4	0.7	T
					46	31	22	1		76	7	5	12							
14S/25E-16L03 M																				
01/14/75	5050			400	33	14	28	2.9	0	151	25	11	44.0	.00	--		281	139		
1010	5050		7.3	419	1.65	1.15	1.22	.07	.00	2.47	.52	.31	.71		--		232	17	1.0	
					40	28	30	2		62	13	8	18							
15S/22E-31A01 M																				
09/11/75	5701	68 F			34	4.0	20	2.5	.4	131	10	12	21.0	--	.0		188	102		
	5701	20 C	7.6	289	1.70	.33	.87	.06	.01	2.15	.21	.34	.34		19.0		187	0	0.9	
					57	11	29	2		76	7	11	11							
15S/22E-32L01 M																				
05/27/75	5701	70 F			18	.0	16	1.6	.9	66	9.0	11	6.0	--	.1		109	46		
	5701	21 C	8.3	167	.90	.00	.70	.04	.03	1.08	.19	.31	.10		13.0		108	0	1.0	
					55		43	2	2	63	11	18	6							
16S/22E-05C01 M																				
08/18/75	5701	68 F			27	3.0	18	2.5	.7	96	6.0	22	9.0	--	.1		156	82		
	5701	20 C	8.0	242	1.35	.25	.78	.06	.02	1.57	.12	.62	.15		20.0		155	1	0.9	
					55	10	32	2	1	63	5	25	6							

KINGS

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	FC	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/22E-05C02	M																		
09/11/75	5701	71	F		22	2.0	17	2.0	.4	87	5.0	17	7.0	--	.1		138	66		
	5701	21	C	7.8	216	1.10	.16	.74	.05	.01	1.43	.10	.48	.11		21.0	136	0	0.9	
						54	8	36	2		67	5	23	5						
	18S/22E-05E01	M																		
03/03/75	5701	68	F		26	4.0	18	2.3	.8	96	7.0	19	8.0	--	.1		159	80		
	5701	21	C	8.1	248	1.30	.33	.78	.06	.03	1.57	.15	.54	.13		27.0	159	2	0.9	
						53	13	32	2	1	65	6	22	5						
09/16/75	5701					--	--	--	--	--	--	--	--	--	.10	--				
	5701															--				5
	18S/22E-05F02	M																		
07/02/75	5701	71	F		12	1.0	17	1.7	1.3	61	4.0	12	4.0	--	.1		98	36		
	5701	21	C	8.5	152	.60	.08	.74	.04	.04	1.00	.08	.34	.06		14.0	97	0	1.3	
						41	5	51	3	3	66	5	22	4						
	18S/22E-05M01	M																		
05/27/75	5701	69	F		32	4.0	21	2.5	.8	113	8.0	25	13.0	--	.1		183	98		
	5701	21	C	8.0	298	1.60	.33	.91	.06	.03	1.85	.17	.71	.21		20.0	182	3	0.9	
						55	11	31	2	1	62	6	24	7						
	18S/22E-06G01	M																		
04/01/75	5701	67	F		45	4.0	28	3.0	.5	153	24	23	22.0	--	.0		249	130		
	5701	19	C	7.7	392	2.25	.33	1.22	.08	.02	2.51	.50	.65	.35		24.0	249	3	1.1	
						58	9	31	2		62	12	16	9						
	18S/22E-06K01	M																		
03/03/75	5701	66	F		18	1.0	21	1.7	1.2	73	7.0	19	11.0	--	.1		129	50		
	5701	21	C	8.4	198	.90	.08	.91	.04	.04	1.20	.15	.39	.18		18.0	129	0	1.3	
						47	4	47	2	2	61	8	20	9						
05/22/75	5701					--	--	--	--	--	--	--	--	--	.06	--				
	5701															--				5
	18S/22E-06N01	M																		
08/18/75	5701	71	F		28	3.0	21	2.5	.9	101	9.0	23	11.0	--	.1		165	84		
	5701	22	C	8.1	264	1.40	.25	.91	.06	.03	1.66	.19	.65	.18		17.0	165	0	1.0	
						53	10	35	2	1	61	7	24	7						
	18S/22E-07A01	M																		
04/01/75	5701	67	F		44	7.0	24	3.0	1.0	149	12	35	14.0	--	.0		241	140		
	5701	19	C	8.0	198	2.20	.58	1.04	.08	.03	2.44	.25	.99	.23		27.0	240	16	0.9	
						58	15	27	2	1	62	6	25	6						
	18S/22E-07C02	M																		
08/18/75	5701	71	F		13	1.0	19	1.5	.9	59	4.0	12	8.0	--	.1		101	36		
	5701	22	C	8.4	149	.65	.08	.83	.04	.03	.97	.08	.34	.13		14.0	102	0	1.4	
						41	5	52	3	2	63	5	22	8						
	18S/24E-25L01	M																		
10/07/74	5701	67	F	7.9	418	55	8.0	17	1.4	1.0	184	15	18	17.0	--	.1		248	173	
	5701	19	C	7.9	418	2.74	.66	.74	.04	.03	3.02	.31	.51	.27		24.0	247	18	0.6	
						66	16	18	1	1	73	7	12	7						
	18S/24E-27R02	M																		
05/29/75	5701	68	F		44	8.0	15	1.5	.7	162	11	15	11.0	--	.1		205	144		
	5701	21	C	7.8	342	2.20	.66	.65	.04	.02	2.66	.23	.42	.18		18.0	204	9	0.5	
						62	19	18	1	1	76	7	12	5						
	18S/24E-35N01	M																		
04/19/75	5701				30	3.0	16	1.0	.3	117	8.0	11	7.0	--	.1		152	88		
	5701			7.5	241	1.50	.25	.70	.03	.01	1.92	.17	.31	.11		18.0	152	0	0.7	
						60	10	28	1		76	7	12	4						
	18S/24E-36N01	M																		
07/03/75	5701	67	F		22	1.0	14	1.0	.9	86	4.0	10	4.0	--	.1		112	60		
	5701	19	C	8.2	186	1.10	.08	.61	.03	.03	1.41	.08	.28	.06		12.0	111	0	0.8	
						60	4	34	2	2	76	4	15	3						
	18S/24E-36C01	M																		
04/16/75	5701	68	F		26	2.0	15	1.2	1.1	98	6.0	13	8.0	--	.1		142	78		
	5701	19	C	8.2	221	1.40	.16	.65	.03	.04	1.61	.12	.37	.13		19.0	141	0	0.7	
						63	7	29	1	2	71	5	16	6						
	18S/24E-36E01	M																		
05/29/75	5701	67	F		31	2.0	14	1.6	.5	111	6.0	11	4.0	--	.1		141	86		
	5701	19	C	7.9	240	1.55	.16	.61	.04	.02	1.82	.12	.31	.06		15.0	140	0	0.7	
						66	7	26	2	1	78	5	13	3						
	18S/24E-36N01	M																		
01/17/75	5701	65	F		46	6.0	13	1.0	.5	155	10	13	12.0	--	.1		201	140		
	5701	18	C	7.7	324	2.30	.49	.57	.03	.02	2.54	.21	.37	.19		24.0	202	12	0.5	
						68	14	17	1	1	76	6	11	6						
	18S/24E-36Q01	M																		
10/07/74	5701	67	F	7.9	285	39	4.0	12	1.1	.7	135	8.0	9.0	9.0	--	.1		174	115	
	5701	19	C	7.9	285	1.95	.33	.52	.03	.02	2.21	.17	.25	.15		24.0	173	3	0.5	
						69	12	18	1	1	79	6	9	5						
	18S/25E-14N01	M																		
04/16/75	5701	65	F		34	5.0	7.0	.7	.2	122	7.0	8.0	7.0	--	.1		167	106		E
	5701	18	C	7.4	236	1.70	.41	.30	.02	.01	2.00	.15	.23	.11		38.0	167	5	0.3	
						70	17	12	1		80	6	9	4						
	18S/25E-14N02	M																		
10/08/74	5701	66	F	7.2	237	32	7.0	7.0	.8	.1	122	8.0	6.0	7.0	--	.1		164	108	
	5701	19	C	7.2	237	1.60	.58	.30	.02	.00	2.00	.17	.17	.11		36.0	164	9	0.3	
						64	23	12	1		82	7	7	4						
02/04/75	5701	64	F		32	4.0	7.0	.7	.1	110	8.0	7.0	7.0	--	.1		158	98		
	5701	18	C	7.2	227	1.60	.33	.30	.02	.00	1.80	.17	.20	.11		38.0	158	7	0.3	
						71	15	13	1		79	7	9	5						

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD PH	FIELD EC	LABORATORY PH	LABORATORY EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TM NCM	SAR	REM
							MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						
							CENTRAL VALLEY / SAN JOAQUIN VALLEY															
	18S/25E-14N02	M																				
06/06/75	5701						--	--	--	--	--	--	--	--	--	.00	--					
	5701																--					
																						S
	18S/25E-19N01	M																				
04/17/75	5701	66	F				24	2.0	13	1.1	.9	103	5.0	6.0	5.0	--	.0		125	70		
	5701	19	C	8.1	193		1.20	.16	.57	.03	.03	1.69	.10	.17	.08		18.0		126	0	0.7	
							61	8	29	2	1	82	5	8	4							
	18S/25E-20E01	M																				
02/25/75	5701						39	9.0	11	1.1	1.1	157	8.0	8.0	10.0	.00	.1		193	136		
	5701			8.0	304		1.95	.74	.48	.03	.04	2.57	.17	.23	.16		28.0		192	4	0.4	
							61	23	15	1	1	81	5	7	5							
	18S/25E-23C01	M																				
09/29/75	5701	60	F				22	2.0	6.0	.7	.1	75	7.0	2.0	7.0	--	.1		106	64		
	5701	16	C	7.2	161		1.10	.16	.26	.02	.00	1.23	.15	.06	.11		23.0		107	2	0.3	
							71	10	17	1		79	10	4	7							
	18S/25E-27N01	M																				
09/02/75	5701	65	F				23	2.0	11	1.0	1.2	88	5.0	5.0	6.0	--	.1		115	66		
	5701	18	C	8.3	183		1.15	.16	.48	.03	.04	1.44	.10	.14	.10		18.0		115	0	0.6	
							63	9	26	2	2	79	5	8	5							
	18S/25E-27P01	M																				
09/02/75	5701	65	F				17	1.0	17	1.0	1.4	82	6.0	6.0	4.0	--	.1		107	46		
	5701	18	C	8.4	164		.85	.08	.74	.03	.05	1.34	.12	.17	.06		14.0		108	0	1.1	
							50	5	44	2	3	77	7	10	3							
	18S/25E-28D01	M																				
04/16/75	5701	64	F				26	2.0	10	1.0	.8	98	5.0	5.0	4.0	--	.1		122	74		
	5701	18	C	8.1	184		1.30	.16	.44	.03	.03	1.61	.10	.14	.06		20.0		122	0	0.5	
							67	8	23	2	2	83	5	7	3							
	18S/25E-28L01	M																				
03/21/75	5701	64	F				34	6.0	11	1.1	.3	131	8.0	8.0	10.0	--	.1		171	110		
	5701	16	C	7.5	256		1.70	.49	.48	.03	.01	2.15	.17	.23	.16		28.0		171	2	0.5	
							63	18	18	1		79	6	8	6							
	18S/25E-29B01	M																				
05/29/75	5701	64	F				24	1.0	11	1.3	.5	97	5.0	2.0	2.0	--	.1		108	64		
	5701	18	C	7.9	182		1.20	.08	.48	.03	.02	1.59	.10	.06	.03		15.0		109	0	0.6	
							67	4	27	2	1	88	6	3	2							
	18S/25E-29C01	M																				
02/04/75	5701	64	F				20	3.0	8.0	.6	.2	75	6.0	6.0	4.0	--	.1		105	64		
	5701	18	C	7.5	159		1.00	.25	.35	.02	.01	1.23	.12	.17	.06		20.0		105	1	0.4	
							62	15	22	1	1	77	8	11	4							
	18S/25E-29R01	M																				
02/04/75	5701	64	F				32	3.0	10	1.0	.4	112	7.0	6.0	8.0	--	.1		148	92		
	5701	18	C	7.7	226		1.60	.25	.44	.03	.01	1.84	.15	.17	.13		26.0		148	0	0.5	
							69	11	19	1		80	7	7	6							
	18S/25E-30F01	M																				
03/21/75	5701	66	F				22	2.0	13	1.1	1.0	93	5.0	5.0	3.0	--	.1		113	62		
	5701	19	C	8.2	174		1.10	.16	.57	.03	.03	1.52	.10	.14	.05		16.0		114	0	0.7	
							59	9	31	2	2	83	5	8	3							
	18S/25E-30P01	M																				
10/07/74	5701	66	F	7.9	398		55	6.0	15	1.6	.8	157	17	25	18.0	--	.1		241	162		
	5701	19	C	7.9	398		2.74	.49	.65	.04	.03	2.57	.35	.71	.29		25.0		241	32	0.5	
							70	13	17	1	1	65	9	18	7							
09/02/75	5701	66	F				59	5.0	15	1.4	.8	165	19	27	14.0	--	.1		244	168		
	5701	19	C	7.9	405		2.94	.41	.65	.04	.03	2.70	.40	.76	.23		22.0		244	31	0.5	
							73	10	16	1	1	66	10	18	6							
	18S/25E-30R02	M																				
05/29/75	5701	67	F				35	3.0	14	1.6	.4	126	10	11	6.0	--	.0		162	102		
	5701	19	C	7.7	269		1.75	.25	.61	.04	.01	2.07	.21	.31	.10		17.0		160	0	0.6	
							66	9	23	2		77	8	11	4							
	18S/25E-31B01	M																				
02/04/75	5701	65	F				30	2.0	12	1.1	.3	102	8.0	10	8.0	--	.1		141	86		
	5701	18	C	7.6	228		1.50	.16	.52	.03	.01	1.67	.17	.28	.13		18.0		140	0	0.6	
							66	7	24	1		74	8	12	6							
04/17/75	5701						--	--	--	--	--	--	--	--	--	.00	--					
	5701																--					
																						S
	18S/25E-31B03	M																				
09/02/75	5701	66	F				50	7.0	13	1.1	.6	150	15	26	8.0	--	.1		216	152		
	5701	19	C	7.8	357		2.50	.58	.57	.03	.02	2.46	.31	.73	.13		22.0		216	30	0.5	
							68	16	15	1	1	67	8	20	4							
	18S/25E-31E01	M																				
09/02/75	5701	66	F				32	2.0	11	1.1	.9	108	6.0	10	6.0	--	.1		136	88		
	5701	19	C	8.1	224		1.60	.16	.48	.03	.03	1.77	.12	.28	.10		14.0		136	0	0.5	
							70	7	21	1	1	77	5	12	4							
	18S/25E-31K01	M																				
02/04/75	5701	65	F				26	1.0	12	1.1	.5	97	4.0	7.0	3.0	--	.1		119	70		
	5701	18	C	7.9	192		1.30	.08	.52	.03	.02	1.59	.08	.20	.05		16.0		118	0	0.6	
							67	4	27	2	1	82	4	10	3							
	18S/25E-31R01	M																				
03/19/75	5701						29	1.0	14	1.3	.9	108	6.0	8.0	6.0	.00	.1		139	78		
	5701			8.1	216		1.45	.08	.61	.03	.03	1.77	.12	.23	.10		19.0		138	0	0.7	
							67	4	28	1	1	79	5	10	4							

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TM NCM	SAR	REM
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER					
	KUWEMM	CENTRAL VALLEY SAN JOAQUIN VALLEY																		
	18S/25E-32E01	M																		
05/29/75	5701	65 F				28	3.0	10	1.3	.6	109	4.0	5.0	3.0	--	.1	125	82		
	5701	18 C	7.9		202	1.40	.25	.44	.03	.02	1.79	.08	.14	.05		17.0	125	0	0.5	
						66	12	21	1	1	86	4	7	2						
	18S/25E-32E02	M																		
05/29/75	5701	65 F				30	2.0	9.0	1.3	.6	111	4.0	5.0	3.0	--	.1	129	84		
	5701	18 C	7.9		209	1.50	.16	.39	.03	.02	1.82	.08	.14	.05		19.0	128	0	0.4	
						72	8	19	1	1	86	4	7	2						
	18S/25E-32G01	M																		
04/18/75	5701	66 F				37	6.0	11	.8	.2	119	13	11	18.0	--	.1	188	116		
	5701	19 C	7.3		276	1.85	.49	.48	.02	.01	1.95	.27	.31	.29		33.0	189	19	0.4	
						65	17	17	1		69	10	11	10						
09/19/75	5701					--	--	--	--	--	--	--	--	--	.00	--				
	5701															--				
	18S/25E-32K01	M																		
07/03/75	5701	66 F				27	4.0	12	1.0	.4	107	6.0	9.0	9.0	--	.1	140	86		
	5701	19 C	7.8		221	1.35	.33	.52	.03	.01	1.75	.12	.25	.15		19.0	140	0	0.6	
						61	15	23	1		77	5	11	7						
	19S/24E-01G01	M																		
07/03/75	5701	65 F				62	6.0	14	1.0	.7	172	14	30	17.0	--	.1	249	180		
	5701	18 C	7.8		429	3.09	.49	.61	.03	.02	2.82	.29	.85	.27		19.0	248	37	0.5	
						73	12	14	1		56	7	20	6						
	19S/24E-01R01	M																		
04/16/75	5701	64 F				54	3.0	14	1.3	.8	118	7.0	49	8.0	--	.1	221	148		
	5701	18 C	8.[illegible]		38R	2.69	.25	.61	.03	.03	1.93	.15	1.38	.13		25.0	220	49	0.5	
						75	7	17	1	1	53	4	38	4						
	19S/24E-02M01	M																		
09/02/75	5701	67 F				46	3.0	13	.9	.7	135	10	14	21.0	--	.1	195	128		
	5701	19 C	7.3		314	2.30	.25	.57	.02	.02	2.21	.21	.39	.34		20.0	195	16	0.5	
						73	8	18	1	1	70	7	12	11						
	19S/25E-05A01	M																		
10/07/74	5701	65 F	8.3		21R	29	1.0	11	1.2	.7	106	6.0	5.0	5.0	--	.1	131	79		
	5701	18 C	8.9		21R	1.45	.08	.48	.03	.02	1.74	.12	.14	.08		20.0	131	0	0.5	
						71	4	24	1	1	83	6	7	4						
10/07/74	5701					--	--	--	--	--	--	--	--	--	.01	--				
	5701															--				
07/03/75	5701	66 F				30	1.0	11	1.3	.9	111	6.0	9.0	6.0	--	.1	131	82		
	5701	19 C	8.1		20R	1.50	.08	.48	.03	.03	1.66	.12	.25	.10		15.0	130	0	0.5	
						72	4	23	1	1	77	6	12	5						
	19S/25E-06F01	M																		
07/03/75	5701	66 F				22	.0	14	1.2	.9	M1	5.0	9.0	5.0	--	.1	109	56		
	5701	19 C	8.2		174	1.10	.00	.61	.03	.03	1.33	.10	.25	.08		11.0	108	0	0.8	
						63		35	2	2	74	6	14	4						
	19S/25E-06M01	M																		
07/03/75	5701	65 F				38	2.0	13	1.2	.5	89	5.0	34	7.0	--	.1	156	102		
	5701	18 C	7.9		27R	1.90	.16	.57	.03	.02	1.46	.10	.96	.11		13.0	157	29	0.6	
						71	6	21	1	1	55	4	36	4						
	19S/25E-07A01	M																		
04/16/75	5701	65 F				47	5.0	16	1.3	.8	145	14	22	13.0	--	.1	216	140		
	5701	18 C	7.9		347	2.35	.41	.70	.03	.03	2.38	.29	.62	.21		25.0	215	18	0.6	
						67	12	20	1	1	67	8	18	6						
	19S/25E-19E02	M																		
10/07/74	5701	67 F	8.[illegible]		197	25	1.0	14	.9	.6	89	6.0	7.0	10.0	--	.1	128	67		
	5701	19 C	8.0		197	1.25	.08	.61	.02	.02	1.46	.12	.20	.16		19.0	127	0	0.7	
						64	4	31	1	1	74	6	10	8						
02/04/75	5701	65 F				27	.0	14	.8	.5	87	6.0	8.0	12.0	--	.1	122	68		
	5701	18 C	7.9		20R	1.35	.00	.61	.02	.02	1.43	.12	.23	.19		12.0	123	0	0.7	
						68		31	1	1	72	6	12	10						
	19S/25E-19E03	M																		
04/17/75	5701	65 F				27	1.0	15	.9	.8	94	6.0	8.0	11.0	--	.1	138	72		
	5701	18 C	8.1		20R	1.35	.06	.65	.02	.03	1.54	.12	.23	.18		22.0	138	0	0.8	
						64	4	31	1	1	73	6	11	9						
	25S/31E-01H01	M																		
06/09/75	5121					11	1.3	85	3.9	0	20R	5.0	44	7.5	.49	--	262	33		
	5191			7.7	420	.55	.11	3.70	.10	.00	3.41	.10	1.24	.12		--	261	0	6.5	S
						12	2	83	2		70	2	25	2						
	25S/22E-10R80	M																		
05/15/75	5121					2.0	.0	30	1.0	12	59	5.0	2.0	.5	.01	--	80	7		
	5806			8.3	15R	.14	.00	1.31	.03	.43	.97	.10	.06	.01		20.0	103	0	4.9	T
						9		89	2	27	62	6	4	1						
	25S/22E-26N01	M																		
06/09/75	5141					27	4.0	244	2.2	0	81	244	267	.5	.59	--	829	84		
	5191			7.M	1390	1.35	.33	10.61	.06	.00	1.33	5.08	7.53	.01		--	829	18	11.6	S
						11	3	86			10	36	54							
	25S/23E-08CA0	M																		
05/15/75	5121	7[illegible].0F				4.0	.1	36	.9	8.4	54	18	8.1	.5	.01	--	104	10		
	5806	21.1C		8.4	190	.20	.01	1.57	.02	.28	.89	.37	.23	.01		18.0	121	0	4.9	
						11	1	87	1	16	50	21	13	1						

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD PH	LABORATORY EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	R	F	SIO2	TDS SUM	TM NCN	SAR	REM
					MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER						
		CENTRAL VALLEY SAN JOAQUIN VALLEY																		
25S/23E-10P01	M																			
06/06/75	5121	76.0F			8.0	.5	120	1.4	12	60	5.0	151	.5	.24	--		325	22		
	5806	25.5C	8.4	580	.40	.04	5.22	.04	.40	.98	.10	4.26	.01		20.0		348	0	11.1	
					7	1	92	1	7	17	2	74								
25S/23E-12R02	M																			
02/03/75	5617	76 F			1.9	.0	37	--	37	10	9.0	3.2	1.7	.05	--		96	5		
	5806	24 C	9.3	170	.09	.00	1.61		1.25	.16	.19	.09	.03		--		95	0	7.4	
					5		95		73	9	11	5	2							
25S/23E-16F80	M																			
12/21/74	5617	69 F			30	.2	139	--	0	40	52	207	1.7	.02	--		451	76		
	5806	21 C	7.8	770	1.50	.02	6.05		.00	.66	1.08	5.80	.03		--		450	43	7.0	
					20		80			9	14	77								
25S/23E-16K80	M																			
12/27/74	5617	71 F			3.9	.0	48	--	0	56	15	37	.9	.03	--		134	10		
	5806	22 C	7.3	240	.19	.00	2.09		.00	.92	.31	1.07	.01		--		133	0	6.7	
					8		92			40	13	46								
25S/23E-24R01	M																			
03/27/75	5617	75 F			4.3	.0	58	--	41	10	5.0	55	.5	.05	--		179	11		
	5806	24 C	9.1	290	.21	.00	2.52		1.39	.16	.10	1.58	.01		--		170	0	7.7	
					8		92		43	5	3	49								
25S/23E-24R80	M																			
05/15/75	5121	79 F			5.0	.0	62	1.1	23	37	5.0	53	.5	.01	--		168	13		
	5806	26 C	9.3	300	.25	.00	2.70	.03	.77	.61	.10	1.50	.01		20.0		188	0	7.6	
					8		91	1	26	20	3	50								
25S/23E-26D80	M																			
05/15/75	5121	78 F			3.0	.0	44	1.0	36	24	5.0	13	.5	.01	--		115	8		
	5806	26 C	9.0	200	.15	.00	1.91	.03	1.22	.39	.10	.38	.01		21.0		136	0	7.0	
					7		91	1	58	19	5	18								
25S/23E-27E01	M																			
04/08/75	5617	73 F			.1	.1	43	--	19	49	10	8.9	.5	.14	--		108	1		
	5806	23 C	9.6	180	.00	.01	1.87		.64	.80	.21	.25	.01		--		106	0	23.0	
						1	99		34	42	11	13	1							
25S/23E-27M01	M																			
05/09/75	5121	78 F			99	.4	172	2.6	0	27	111	344	2.1	.01	--		745	209		
	5806	26 C	7.0	1240	4.94	.03	7.48	.07	.00	.44	2.31	9.70	.03		11.0		755	227	4.7	
					39		60	1		4	19	78								
25S/23E-33E01	M																			
03/27/75	5617	75 F			24	.1	72	--	9.3	22	44	38	2.5	.03	--		263	61		
	5806	24 C	8.5	450	1.20	.01	3.13		.31	.36	.92	2.77	.04		--		261	27	4.0	
					28		72		7	8	21	63	1							
25S/23E-33R01	M																			
05/09/75	5121	76 F			1020	6.8	740	9.0	0	31	584	2520	6.2	.12	--		4902	2578		
	5806	24 C	7.3	8340	50.90	.56	32.19	.23	.00	.51	12.16	71.08	.10		9.0		4911	2850	6.3	
					61	1	38			1	15	85								
25S/23E-35Q01	M																			
04/08/75	5617	78 F			.1	.1	41	--	20	47	5.0	12	.5	.10	--		101	1		
	5806	26 C	9.7	180	.00	.01	1.78		.67	.77	.10	.35	.01		--		102	0	21.9	
						1	99		35	41	5	18	1							
25S/24E-06Q02	M																			
11/26/74	5617	73 F			21	.5	97	--	9.3	46	81	89	4.5	.12	--		327	55		
	5806	23 C	8.5	540	1.05	.04	4.22		.31	.75	1.69	2.52	.07		--		325	2	5.7	
					20	1	79		6	14	32	47	1							
25S/24E-10R01	M																			
05/09/75	5121	74 F			16	.1	48	1.4	0	70	36	35	2.1	.01	--		174	40		
	5806	23 C	7.7	300	.80	.01	2.09	.04	.00	1.15	.75	1.00	.03		24.0		197	0	3.3	
					27		71	1		39	26	34	1							
25S/24E-11R01	M																			
03/26/75	5617	75 F			44	.7	56	--	0	80	57	78	5.0	.03	--		284	113		
	5806	24 C	7.8	500	2.20	.06	2.44		.00	1.31	1.19	2.21	.08		--		280	48	2.3	
					47	1	52			27	25	46	2							
25S/24E-12M01	M																			
06/09/75	5121				9.0	.8	10	1.2	0	67	1.0	1.7	.4	.13	--		58	26		
	5191		7.6	110	.45	.07	.44	.03	.00	1.10	.02	.05	.01		--		57	0	0.9	
					45	7	44	3		93	2	4	1							5
25S/24E-13P02	M																			
06/09/75	5121				570	4.7	117	3.5	0	67	740	602	39.0	.05	--		2110	1443		
	5191		7.1	3400	28.44	.39	5.09	.09	.00	1.10	15.41	16.98	.63		--		2109	1388	1.3	
					84	1	15			3	45	50	2							
25S/24E-19R02	M																			
05/09/75	5121	75 F			67	.3	164	2.1	0	74	154	197	34.3	.01	--		656	169		
	5806	24 C	7.9	1020	3.34	.02	7.13	.05	.00	1.21	3.21	5.56	.55		16.0		671	108	5.5	
					36		68			11	30	53	5							
25S/24E-22M01	M																			
12/02/74	5617	76 F			11	.0	66	--	6.0	26	63	47	11.6	.03	--		221	29		
	5806	24 C	8.4	360	.57	.00	2.87		.20	.43	1.31	1.34	.19		--		218	0	5.4	
					17		83		6	12	38	39	5							
25S/24E-23P80	M																			
12/02/74	5617	73 F			46	.3	75	--	0	43	94	88	28.6	.02	--		357	116		
	5806	23 C	7.3	570	2.30	.02	3.26		.00	.70	1.96	2.51	.46		--		354	81	3.0	
					41		58			12	35	45	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 NCH	SAR	REM
						CENTRAL VALLEY SAN JOAQUIN VALLEY															
05/09/75	25S/24E-27R03	M	74	F																	
	5121		23	C	7.7	940	110	1.5	88	2.4	0	43	195	130	67.7	.01	--	615	281		
	5806						5.49	.12	3.83	.06	.00	.70	4.06	3.67	1.09		33.0	649	246	2.3	
							58	1	40	1		7	43	39	11						
12/12/74	25S/24E-27R06	M	76	F																	
	5017		24	C	7.5	210	10	.1	41	--	0	57	43	15	3.5	.03	--	142	26		
	5806						.50	.01	1.78		.00	.93	.90	.43	.06		--	141	0	3.5	
							22		78			40	39	19	3						
06/06/75	25S/24E-27R07	M	75	F																	
	5121		24	C	8.6	290	13	.2	50	.4	12	23	67	18	8.5	.07	--	182	33		
	5806						.65	.02	2.18	.01	.43	.38	1.39	.51	.14		19.0	200	0	3.8	
							23	1	76		15	13	49	18	5						
05/09/75	25S/24E-28R01	M	70	F																	
	5121		21	C	7.6	2900	460	3.2	117	4.7	0	52	468	623	16.6	.04	--	1718	1163		
	5806						22.95	.26	5.09	.12	.00	.15	9.74	17.57	.27		37.0	1755	1119	1.5	
							81	1	18			3	34	62	1						
04/08/75	25S/24E-30R01	M	80	F																	
	5017		27	C	9.5	200	.1	.1	45	--	20	48	10	11	.9	.12	--	113			
	5806						.00	.01	1.96		.67	.79	.21	.33	.01		--	112	0	24.1	
								1	99		33	39	10	16							
05/15/75	25S/24E-35E06	M	73	F																	
	5121		23	C	7.5	750	84	.4	79	2.3	0	45	202	41	30.2	.01	--	501	212		
	5806						4.19	.03	3.44	.06	.00	.74	4.21	2.30	.49		28.0	529	174	2.4	
							54		45	1		10	54	30	6						
06/06/75	25S/24E-35R01	M	76	F																	
	5121		24	C	8.5	250	7.3	.1	41	.7	13	26	41	18	11.3	.07	--	152	19		
	5806						.46	.01	1.78	.02	.45	.43	.85	.52	.18		21.0	167	0	4.1	S
							17		82	1	19	18	35	21	7						
06/06/75	25S/24E-36G01	M	77	F																	
	5121		25	C	7.5	390	20	.1	64	1.3	0	32	64	62	12.1	.06	--	240	51		
	5806						1.00	.01	2.78	.03	.00	.52	1.33	1.77	.20		16.0	256	25	3.9	
							26		73	1		14	35	46	5						
06/09/75	25S/25E-04C01	M					37	6.3	34	4.4	0	141	18	44	27.5	.05	--	242	118		
	5121				7.4	400	1.85	.52	1.48	.11	.00	2.31	.37	1.25	.44		--	241	3	1.4	S
	5191						47	13	37	3		53	8	29	10						
06/09/75	25S/25E-21J01	M					262	14	170	6.0	0	208	750	160	8.9	.10	--	1480	712		
	5121				7.8	2300	13.07	1.15	7.40	.15	.00	3.41	15.62	4.51	.14		--	1473	541	2.8	S
	5191						60	5	34	1		14	66	19	1						
06/09/75	25S/26E-04A02	M					27	4.5	80	6.3	0	195	40	33	27.5	.09	--	316	86		
	5121				7.9	530	1.35	.37	3.48	.16	.00	3.20	.83	.94	.44		--	315	0	3.8	
	5191						25	7	65	3		59	15	17	8						
06/08/75	25S/18E-18R03	M					51	115	217	6.1	0	248	580	174	8.0	2.50	--	1280	401		
	5121				7.6	2200	2.54	9.46	9.44	.16	.00	4.06	12.08	4.91	.13		--	1276	397	3.9	
	5191						12	44	44	1		19	57	23	1						
06/09/75	25S/18E-19R01	M					230	300	710	14	0	208	1760	534	151	3.00	--	3810	1809		
	5121				7.6	6000	11.48	24.67	30.89	.37	.00	3.41	36.64	15.06	2.44		--	3805	1638	7.3	S
	5191						17	37	46	1		6	64	26	4						
06/09/75	25S/21E-14M01	M					310	179	970	12	0	470	2200	862	3.1	3.40	--	4770	1511		E
	5121				7.7	6400	15.47	14.72	42.20	.31	.00	7.70	45.80	24.31	.05		--	4771	1125	10.9	S
	5191						21	20	58			10	59	31							
03/31/75	25S/22E-10G02	M					4.3	.3	70	--	12	37	42	50	.4	.23	--	200	11		
	5017				8.8	340	.21	.02	3.05		.40	.61	.87	1.43	.01		--	198	0	8.8	
	5806						6	1	93		12	18	26	43							
04/11/75	25S/22E-21A01	M				1050	114	7.1	108	7.5	0	121	287	110	.1	.60	--	758	320		
1340	5050				7.7	1130	5.69	.75	4.70	.19	.00	1.98	5.98	3.10	.00		--	695	221	2.6	
	5350						50	7	42	2		18	54	28							
06/09/75	25S/22E-27Q01	M					136	2.7	410	4.4	0	74	340	650	.9	.65	--	1580	351		
	5121				7.7	2900	6.79	.22	17.84	.11	.00	1.21	7.08	18.33	.01		--	1581	290	9.5	S
	5191						27	1	71			5	27	69							
06/18/75	25S/23E-02R06	M	78	F																	
	5121		26	C	9.0	181	1.0	.0	39	.4	25	32	5.0	8.1	2.8	.06	--	98	3		
	5806						.05	.00	1.70	.01	.84	.52	.10	.23	.05		21.0	118	0	10.7	T
							3		47	1	48	30	6	13	3						
02/03/75	25S/23E-04J01	M	71	F																	
	5017		22	C	7.9	1990	242	.7	179	--	0	29	145	583	7.1	.02	--	1177	608		
	5806						12.08	.06	7.79		.00	.48	3.02	16.45	.11		--	1171	583	3.2	
							61		39			2	15	82	1						
01/08/75	25S/23E-05R01	M	72	F																	
	5017		22	C	8.8	230	4.3	.1	44	--	13	25	35	13	.9	.03	--	130	11		
	5806						.21	.01	1.91		.45	.41	.73	.39	.01		--	124	0	5.7	
							10		90		23	21	37	20	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	B	F	SIO2	TDS SUM	TH NCM	SAR	REM
		CENTRAL VALLEY SAN JOAQUIN VALLEY																			
	26S/23E-07R80	M																			
04/28/75	5121		71	F		29	3.6	108	1.5	0	70	103	112	2.1	.01	--		394	88		
	5806		22	C	7.9	640	1.45	.30	4.70	.04	.00	1.15	2.14	3.16	.03		16.0	410	30	5.0	
							22	5	72	1		18	33	49							
	26S/23E-09F80	M																			
01/07/75	5617		71	F		43	.1	80	--	0	37	50	140	3.5	.03	--		338	108		
	5806		22	C	7.2	580	2.15	.01	3.48		.00	.61	1.04	3.97	.06		--	336	78	3.4	
							38		62			11	18	70	1						
	26S/23E-13F80	M																			
01/09/75	5617		77	F		2.5	.0	35	--	20	21	27	1.8	.9	.02	--		98	6		
	5806		25	C	9.1	160	.12	.00	1.52		.68	.34	.56	.05	.01		--	98	0	6.1	
							7		93		41	21	34	3	1						
	26S/23E-13H01	M																			
02/03/75	5617		77	F		14	.1	41	--	20	12	48	19	4.5	.03	--		155	36		
	5806		25	C	9.1	240	.70	.01	1.78		.68	.20	1.00	.56	.07		--	154	0	3.0	
							20		71		27	8	40	22	3						
	26S/23E-14H80	M																			
01/09/75	5617		77	F		17	.2	50	--	1.8	43	59	36	3.5	.05	--		190	44		
	5806		25	C	8.1	290	.86	.02	2.18		.06	.70	1.23	1.02	.06		--	189	6	3.3	
							28	1	71		2	23	40	33	2						
	26S/23E-17R01	M																			
04/08/75	5617		75	F		.1	.1	45	--	25	14	14	21	.9	.12	--		116			
	5806		24	C	9.1	200	.00	.01	1.96		.65	.23	.29	.62	.01		--	115	0	24.1	
								1	99		43	12	15	31	1						
	26S/23E-25A80	M																			
01/17/75	5617		74	F		73	.6	56	--	0	37	73	136	13.4	.05	--		373	185		
	5806		23	C		620	3.64	.05	2.44		.00	.61	1.52	3.85	.22		--	371	154	1.8	
							59	1	40			10	25	62	4						
	26S/23E-25F80	M																			
01/17/75	5617		76	F		3.3	.0	35	--	13	38	24	2.5	1.8	.03	--		100	8		
	5806		24	C	8.9	160	.16	.00	1.52		.45	.62	.50	.07	.03		--	99	0	5.3	
							10		90		27	37	30	4	2						
	26S/23E-25R01	M																			
03/26/75	5617		77	F		2.4	.0	30	--	25	10	9.0	7.4	3.3	.03	--		84	6		
	5806		25	C	9.2	160	.12	.00	1.31		.65	.16	.19	.21	.05		--	83	0	5.3	
							8		92		58	11	13	14	3						
	26S/23E-27R80	M																			
01/18/75	5617		74	F		6.4	.0	45	--	1.8	44	40	23	.9	.02	--		140	16		
	5806		23	C	8.0	240	.32	.00	1.96		.06	.72	.83	.67	.01		--	139	0	4.9	
							14		86		3	31	36	29							
	26S/23E-29J01	M																			
03/27/75	5617		76	F		2.0	.0	36	--	29	26	5.0	6.7	1.7	.05	--		93	5		
	5806		24	C	9.3	180	.10	.00	1.57		.99	.43	.10	.19	.03		--	94	0	7.0	
							6		94		57	25	6	11	2						
	26S/23E-32J02	M																			
03/27/75	5617		73	F		250	2.2	520	--	0	52	870	621	31.6	.28	--		2391	634		
	5806		23	C	7.7	3800	12.48	.18	22.62		.00	.85	18.11	17.53	.51		--	2321	591	9.0	
							35	1	64			2	49	47	1						
	26S/23E-34U80	M																			
01/20/75	5617		76	F		6.8	.0	43	--	23	19	33	14	2.6	.04	--		133	17		
	5806		24	C	8.8	230	.34	.00	1.87		.77	.31	.69	.41	.04		--	132	0	4.5	
							15		85		35	14	31	18	2						
	26S/23E-35F80	M																			
01/20/75	5617		74	F		10	.0	53	--	1.8	41	69	23	1.8	.02	--		181	27		
	5806		23	C	8.2	260	.53	.00	2.31		.06	.67	1.44	.67	.03		--	180	0	4.5	
							19		81		2	23	50	23	1						
	26S/23E-35Q80	M																			
06/11/75	5121		75	F		29	.1	63	.9	8.4	25	93	52	6.5	.04	--		266	73		
	5806		24	C	8.5	430	1.45	.01	2.74	.02	.28	.41	1.94	1.48	.10		15.0	281	39	3.2	
							34		65		7	10	46	35	2						
	26S/23E-36R80	M																			
01/20/75	5617		75	F		6.9	.0	40	--	10	37	39	9.9	3.6	.03	--		129	17		
	5806		24	C	8.9	200	.34	.00	1.74		.34	.61	.81	.28	.06		--	128	0	4.2	
							16		84		16	29	39	13	3						
	26S/24E-02G01	M																			
06/06/75	5121		75	F		4.9	.1	38	.5	14	24	30	9.9	8.5	.04	--		118	13		
	5806		24	C	8.7	200	.24	.01	1.65	.01	.48	.39	.62	.28	.14		22.0	140	0	4.7	
							13	1	86	1	25	20	32	15	7						
	26S/24E-02H01	M																			
02/03/75	5617		76	F		6.5	.1	32	--	0	59	22	9.6	3.5	.03	--		104	17		
	5806		24	C	7.6	170	.32	.01	1.39		.00	.97	.46	.27	.06		--	103	0	3.4	
							19	1	81			55	26	15	3						
	26S/24E-05J80	M																			
12/19/74	5617		70	F		50	.3	70	--	0	42	170	42	14.3	.05	--		370	126		
	5806		21	C	7.2	540	2.50	.02	3.05		.00	.69	3.54	1.19	.23		--	367	92	2.7	
							45		55			12	63	21	4						
	26S/24E-05R80	M																			
12/19/74	5617		73	F		5.0	.0	36	--	6.0	48	31	4.9	3.6	.03	--		111	13		
	5806		23	C	8.4	170	.25	.00	1.57		.20	.79	.65	.14	.06		--	110	0	4.4	
							14		86		11	43	35	8	3						

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TM NCM	SAR	REM
					MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER					
	CENTRAL VALLEY SAN JOAQUIN VALLEY																		
	26S/24E-07R80	M																	
01/10/75	5617	77	F		2.4	.0	30	--	0	75	6.0	1.8	.9	.04	--	79	6		
	5806	25	C	7.8	.12	.00	1.31		.00	1.23	.12	.05	.01		--	78	0	5.3	
				150	8		92			87	9	4	1						
	26S/24E-10P01	M																	
06/09/75	5121				15	.1	40	1.5	13	54	23	8.6	.9	.16	--	129	38		
	5191			8.6	.75	.01	1.74	.04	.44	.89	.48	.24	.01		--	129	0	2.8	5
				200	30		69	2	21	43	23	12							
	26S/24E-10RR0	M																	
01/13/75	5617	76	F		3.2	.0	33	--	7.8	43	26	2.8	2.7	.02	--	97	8		
	5806	24	C	8.7	.16	.00	1.44		.26	.70	.54	.08	.04		--	97	0	5.1	
				150	10		90		16	43	33	5	2						
	26S/24E-12P01	M																	
06/09/75	5121				15	.5	36	1.0	33	40	24	8.2	6.6	.18	--	145	40		
	5191			9.0	.75	.04	1.57	.03	1.10	.66	.50	.23	.11		--	144	0	2.5	5
				230	31	2	66	1	42	25	19	9	4						
	26S/24E-12R01	M																	
06/09/75	5121				7.0	.3	37	2.3	0	101	20	6.2	6.2	.24	--	130	19		
	5191			8.1	.35	.02	1.61	.06	.00	1.66	.42	.17	.10		--	129	0	3.7	5
				240	17	1	79	3		71	18	7	4						
	26S/24E-13M01	M																	
01/13/75	5617	76	F		6.0	.2	35	--	5.1	53	30	4.6	4.5	.03	--	112	16		
	5806	24	C	8.4	.30	.02	1.52		.17	.87	.62	.13	.07		--	111	0	3.8	
				180	16	1	83		9	47	33	7	4						
	26S/24E-15N80	M																	
01/10/75	5617	71	F		19	.4	35	--	0	64	42	15	11.2	.08	--	156	50		
	5806	22	C	7.7	.96	.03	1.52		.00	1.05	.87	.44	.18		--	155	0	2.2	
				250	38	1	61			41	34	17	7						
	26S/24E-16J02	M																	
01/10/75	5617	77	F		5.4	.0	30	--	0	22	5.0	3.5	4.3	.03	--	89	14		
	5806	25	C	8.2	.27	.00	1.31		.00	.36	.10	.10	.07		--	59	0	3.6	T
				160	17		83			57	16	16	11						
	26S/24E-16P80	M																	
01/10/75	5617	75	F		2.7	.0	28	--	0	73	5.0	2.5	1.7	.05	--	75	7		
	5806	24	C	7.8	.13	.00	1.22		.00	1.20	.10	.07	.03		--	76	0	4.7	
				140	10		90			86	7	5	2						
	26S/24E-16M02	M																	
01/10/75	5617				3.9	.1	29	--	0	74	5.0	4.6	2.6	.07	--	81	10		
	5806			8.1	.19	.01	1.26		.00	1.21	.10	.13	.04		--	82	0	4.0	
				150	13	1	86			82	7	9	3						
	26S/24E-17M80	M																	
01/10/75	5617	76	F		4.3	.0	30	--	9.9	52	6.0	6.4	2.6	.02	--	85	11		
	5806	24	C	8.4	.21	.00	1.31		.33	.85	.12	.18	.04		--	85	0	4.0	
				150	14		86		22	56	8	12	3						
	26S/24E-18M80	M																	
01/10/75	5617	77	F		2.1	.0	33	--	4.2	58	21	1.1	.9	.02	--	92	5		
	5806	25	C	8.2	.10	.00	1.44		.14	.95	.44	.03	.01		--	91	0	6.3	
				150	6		94		9	61	28	2	1						
	26S/24E-19M80	M																	
01/15/75	5617	77	F		8.0	.1	32	--	12	33	14	17	4.3	.02	--	107	21		
	5806	25	C	8.7	.40	.01	1.39		.43	.54	.29	.50	.07		--	105	0	3.1	
				190	22	1	77		23	30	16	27	4						
	26S/24E-20C80	M																	
01/15/75	5617	77	F		3.8	.1	30	--	10	43	7.0	9.2	2.6	.05	--	85	10		
	5806	25	C	8.6	.19	.01	1.31		.34	.70	.15	.26	.04		--	84	0	4.1	
				150	13	1	87		23	47	10	17	3						
	26S/24E-21M80	M																	
01/14/75	5617	77	F		2.8	.0	28	--	15	38	7.0	2.1	2.6	.01	--	77	7		
	5806	25	C	8.7	.14	.00	1.22		.51	.62	.15	.06	.04		--	76	0	4.8	
				130	10		90		37	45	11	4	3						
	26S/24E-21R80	M																	
01/14/75	5617	76	F		3.3	.0	27	--	8.7	56	7.0	1.8	2.6	.03	--	76	8		
	5806	24	C	8.3	.16	.00	1.17		.29	.92	.15	.05	.04		--	78	0	4.1	
				130	12		88		20	63	10	3	3						
	26S/24E-22F80	M																	
01/14/75	5617	75	F		6.8	.2	26	--	1.8	56	16	5.3	1.8	.03	--	86	10		
	5806	24	C	8.0	.34	.02	1.13		.06	.92	.33	.15	.03		--	85	0	2.7	
				160	23	1	76		4	62	22	10	2						
	26S/24E-23M01	M																	
03/26/75	5617	73	F		6.1	.1	31	--	7.8	35	19	9.6	11.6	.26	--	104	15		
	5806	23	C	8.6	.30	.01	1.35		.26	.57	.40	.27	.19		--	103	0	3.4	
				180	18	1	81		15	34	24	16	11						
	26S/24E-23R80	M																	
05/14/75	5121	78	F		8.0	.1	34	1.4	0	58	25	11	8.3	.01	--	117	21		
	5806	26	C	8.0	.40	.01	1.48	.04	.00	.95	.52	.31	.13		14.0	130	0	3.3	
				190	21	1	77	2		50	27	16	7						
	26S/24E-27P01	M																	
04/14/75	5617	76	F		9.0	.4	31	--	13	35	19	15	1.9	.01	--	114	24		
	5806	24	C	8.9	.45	.03	1.35		.44	.57	.40	.44	.03		--	107	0	2.7	
				190	25	2	74		23	30	21	23	2						

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE	B	F	SIO2	TDS SUM	TH NCM	SAR	REM
	CENTRAL VALLEY SAN JOAQUIN VALLEY																				
	26S/24E-28M80	M																			
01/16/75	5617	76	F		2.6	.0	26	--	0	68	5.0	1.8	2.6		.03	--		70	7		
	5806	24	C	8.0	130	.13	.00	1.13		.00	1.11	.10	.05	.04		--		71	0	4.4	
						10		90			85	8	4	3							
	26S/24E-30M80	M																			
01/15/75	5617	75	F		12	.0	--	--	6.9	43	34	4.6	1.8		.02	--		109	31		E
	5806	24	C	8.7	150	.61	.00		.23	.70	.71	.13	.03			--			0		
									13	39	39	7	2								S
	26S/24E-31N80	M																			
01/17/75	5617	76	F		4.7	.0	30	--	11	45	10	5.7	4.3		.02	--		89	12		
	5806	24	C	8.5	150	.23	.00	1.31		.38	.74	.21	.16	.07		--		88	0	3.8	
						15		85		24	47	13	10	4							
	26S/24E-33F01	M																			
06/09/75	5121					10	.5	32	1.0	13	54	17	19	5.3	.12	--		126	27		
	5191			8.7	190	.50	.04	1.39	.03	.44	.89	.35	.56	.09		--		125	0	2.7	
						26	2	71	2	19	38	15	24	4							S
	26S/24E-34F01	M																			
06/09/75	5121					7.0	.1	33	1.3	13	54	18	9.6	4.9	.27	--		114	18		
	5191			8.6	220	.35	.01	1.44	.03	.44	.89	.37	.27	.08		--		114	0	3.4	
						19	1	79	2	21	43	18	13	4							S
	26S/24E-34P01	M																			
06/09/75	5121					11	.1	35	1.7	6.6	54	21	17	8.0	.04	--		128	20		
	5191			8.2	210	.55	.01	1.52	.04	.22	.89	.44	.50	.13		--		128	0	2.9	
						26		72	2	10	41	20	23	6							
	26S/25E-08F01	M																			
05/15/75	5121					11	.7	28	1.5	19	54	16	7.5	6.2	.17	--		118	30		
	5191			8.5	210	.55	.06	1.22	.04	.66	.89	.33	.21	.10		--		117	0	2.2	
						29	3	65	2	30	41	15	10	5							S
						15	.6	28	1.2	26	54	18	4.8	7.1	.17	--		128	40		
06/06/75	5121																				
	5191			8.5	210	.75	.05	1.22	.03	.88	.89	.37	.14	.11		--		128	0	1.9	
						37	2	60	1	37	37	15	6	5							S
	26S/25E-11M01	M																			
05/09/75	5121	77	F			3.5	.0	30	1.0	12	32	14	7.1	3.1	.01	--		88	9		
	5806	25	C	8.6	150	.17	.00	1.31	.03	.43	.52	.29	.20	.05		15.0		102	0	4.4	
						11		87	2	29	35	19	13	3							
	26S/25E-31M01	M																			
06/09/75	5121					21	1.5	34	3.0	0	107	17	9.9	19.0	.13	--		159	59		
	5191			7.7	280	1.05	.12	1.48	.08	.00	1.75	.35	.28	.31		--		156	0	1.9	
						38	4	54	3		65	13	10	12							
	26S/25E-31R01	M																			
06/09/75	5121					20	1.4	32	2.8	0	87	24	9.9	19.5	.19	--		153	56		
	5191			7.6	220	1.00	.12	1.39	.07	.00	1.43	.50	.28	.31		--		153	0	1.9	
						39	5	54	3		57	20	11	12							
	26S/26E-02A02	M																			
06/09/75	5121					22	.9	192	12	0	289	215	87	5.3	.78	--		681	59		
	5191			7.7	1000	1.10	.07	8.35	.33	.00	4.74	4.48	2.47	.09		--		678	0	10.9	
						11	1	85	3		40	38	21	1							S
	26S/26E-06M02	M																			
06/09/75	5121					103	7.2	153	7.6	0	121	275	126	173	.09	--		905	287		
	5191			7.5	1340	5.14	.59	6.66	.19	.00	1.98	5.73	3.55	2.79		--		904	188	3.9	
						41	5	53	2		14	41	25	20							S
	26S/26E-30P01	M																			
06/09/75	5121					16	.2	23	2.1	6.6	74	17	5.8	7.0	.11	--		115	41		
	5191			8.0	200	.80	.02	1.00	.05	.22	1.21	.35	.16	.11		--		114	0	1.6	
						43	1	53	3	11	59	17	8	5							S
	27S/22E-06M01	M																			
06/09/75	5121					198	60	580	9.1	34	396	800	483	3.1	3.20	--		2380	741		
	5191			7.0	3600	9.88	4.93	25.23	.23	1.14	6.49	16.66	13.02	.05		--		2365	359	9.3	
						25	12	63	1	3	17	44	36								S
	27S/22E-11L02	M																			
04/11/75	5050	64	F	7.6	6000	30	6.8	102	.9	0	63	112	120	.1	.20	--		434	103		X
0930	5050	18	C	7.4	755	1.50	.56	4.44	.02	.00	1.03	2.33	3.38	.00		--		403	52	4.4	
						23	9	68			15	35	50								S
	27S/22E-13R01	M																			
04/11/75	5050	77	F	8.4	4500	144	22	1000	2.2	0	237	834	1080	10.0	3.10	--		3300	449		
1030	5050	25	C	7.7	5210	7.19	1.81	43.50	.06	.00	3.88	17.36	30.46	.48		--		3232	256	20.5	
						14	3	83			7	33	58	1							
	27S/22E-14B01	M																			
06/12/75	5050	68	F	7.4	17500	494	54	4320	7.2	0	256	3770	4730	17.0	8.30	--		13600	1450		E
0600	5050	20	C	8.0	18900	24.65	4.44	187.92	.18	.00	4.20	78.49	133.39	.27		--		13526	1245	49.3	
						11	2	87			2	36	62								
	27S/22E-14B02	M																			
04/10/75	5050	68	F	8.4	18000	330	67	5160	6.1	0	313	4650	5200	.1	12.0	--		15000	1100		E
1045	5050	20	C	8.0	21200	16.47	5.51	224.46	.16	.00	5.13	96.81	146.84	.00		--		15579	843	67.7	
						7	2	91			2	39	59								
	27S/22E-14B03	M																			
04/10/75	5050			7.0	16000	595	69	4380	--	0	222	--	5400	34.0	--	--			1770		
1045	5050			7.9	19400	29.69	5.87	190.53		.00	3.64		152.28	.55		--			1587	45.3	
						13	3	84			2		97								S

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR	REM
						MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					
						PERCENT REACTANCE VALUE														
		CENTRAL VALLEY SAN JOAQUIN VALLEY																		
	27S/22E-14N04	M																		
04/10/75	5050			8.0	19000	353	81	6350	--	0	343	--	6940	24.0	--	--		1210		x
1140	5050			8.1	24800	17.61	6.66	276.23		.00	5.62		195.71	.39		--		933	79.3	
						6	2	92			3		97							S
	27S/22E-14N05	M																		
04/10/75	5050			7.8	17000	690	88	3870	--	0	202	--	4840	49.0	--	--		2080		
1335	5050			7.9	18500	34.43	7.24	168.35		.00	3.31		136.49	.79		--		1920	36.9	
						16	3	80			2		97	1						S
	27S/22E-14N06	M																		
04/10/75	5050			7.9	17000	495	69	4490	--	0	294	--	4940	.3	--	--		1520		
0955	5050			8.0	19700	24.70	5.67	195.32		.00	4.82		139.31	.00		--		1279	50.1	
						11	3	87			3		97							S
	27S/22E-36Q01	M																		
03/10/75	5617		76	F		38	1.4	320	--	0	44	111	458	5.0	.51	--	961	101		
	5806		24	C	7.9 1600	1.90	.12	13.92		.00	.72	2.31	12.92	.08		--	956	65	13.9	
						12	1	87			4	14	81							
	27S/23E-01P80	M																		
01/21/75	5017		75	F		8.9	.1	41	--	7.8	35	47	13	3.4	.03	--	140	23		
	5806		24	C	8.5 230	.44	.01	1.78		.26	.57	.98	.37	.05		--	139	0	3.8	
						20		80		12	26	44	17	2						
	27S/23E-01R01	M																		
04/18/75	5017		77	F		10	.1	49	--	16	27	49	20	6.6	.31	--	166	26		
	5806		25	C	9.2 260	.50	.01	2.13		.54	.44	1.02	.57	.11		--	165	0	4.2	
						19		81		20	16	38	21	4						
	27S/23E-02H80	M																		
01/21/75	5017		78	F		2.0	.0	34	--	18	47	5.0	1.8	2.6	.03	--	89	5		
	5806		26	C	9.0 150	.10	.00	1.48		.62	.77	.10	.05	.04		--	87	0	6.6	
						6		94		39	49	6	3	3						
	27S/23E-02R01	M																		
05/12/75	5121		78	F		7.0	.0	42	1.1	11	44	28	18	1.1	.01	--	130	18		
	5806		26	C	8.7 210	.35	.00	1.83	.03	.37	.72	.58	.51	.02		18.0	148	0	4.4	
						16		83	1	17	33	26	23	1						
	27S/23E-03F80	M																		
01/21/75	5617		77	F		2.3	.0	36	--	18	42	13	4.2	.9	.04	--	96	6		
	5806		25	C	8.9 170	.11	.00	1.57		.60	.69	.27	.12	.01		--	95	0	6.5	
						7		93		36	41	16	7	1						
	27S/23E-03P01	M																		
01/21/75	5617		77	F		15	.3	75	--	10	43	102	29	3.4	.10	--	258	39		
	5806		25	C	8.5 400	.75	.02	3.26		.34	.70	2.12	.84	.05		--	257	0	5.2	
						19		81		8	17	52	21	1						
	27S/23E-04H80	M																		
01/21/75	5017		77	F		25	.2	116	--	10	52	176	50	5.2	.15	--	412	64		
	5806		25	C	8.5 610	1.27	.02	5.05		.34	.85	3.66	1.42	.08		--	409	5	6.3	
						20		80		5	13	58	22	1						
	27S/23E-05Q01	M																		
01/21/75	5617					163	1.5	940	--	0	37	85	1660	2.6	1.40	--	2877	414		
	5806			7.4	5100	8.13	.12	40.89		.00	.61	1.77	46.82	.04		--	2872	382	20.1	
						17		83			1	4	95							
	27S/23E-14M80	M																		
06/06/75	5121		77	F		90	.9	260	2.6	0	135	400	184	12.2	.52	--	1017	229		
	5806		25	C	7.7 1570	4.49	.07	11.31	.07	.00	2.21	8.33	5.20	.20		8.0	1025	118	7.5	
						28		71			14	52	33	1						
	27S/23E-14P02	M																		
06/09/75	5121					148	1.1	385	3.0	0	124	698	259	25.5	.87	--	1582	375		
	5806			7.8	2500	7.39	.09	16.75	.08	.00	2.03	14.53	7.31	.41		14.0	1596	273	8.7	
						30		69			8	60	30	2						
	27S/23E-16N80	M																		
02/26/75	5617		79	F		26	.5	240	--	0	47	37	366	.5	.55	--	699	67		
	5806		26	C	7.4 1200	1.30	.04	10.44		.00	.77	.77	10.34	.01		--	694	29	12.8	
						11		89			6	6	87							
	27S/23E-18R80	M																		
05/15/75	5121					46	.5	350	4.5	0	48	30	575	.5	.13	--	1031	117		
	5806			7.5	1790	2.30	.04	15.23	.12	.00	.79	.62	16.22	.01		9.0	1040	78	14.1	
						13		86	1		4	4	92							
	27S/23E-19N01	M																		
07/19/75	5050		72	F	7.2 4230	129	17	900	1.8	0	384	658	982	59.0	2.80	--	3030	393		
1415	5050		22	C	7.8 4930	6.44	1.40	39.15	.05	.00	6.29	13.70	27.69	.95		--	2938	78	19.8	
						14	3	83			13	28	57	2						S
	27S/23E-19N02	M																		
04/10/75	5050		66	F	8.0 5000	121	25	1120	2.5	0	482	709	1170	36.0	3.20	--	3430	406		
1450	5050		19	C	7.9 5550	6.04	2.06	48.72	.06	.00	7.90	14.76	32.99	.58		--	3424	10	24.2	
						11	4	86			14	26	59	1						
	27S/23E-19N03	M																		
04/10/75	5050			8.0	4500	114	26	940	--	0	294	--	1170	70.0	--	--		390		
1525	5050			8.0	4950	5.69	2.14	40.89		.00	4.82		32.99	1.13		--		151	20.7	
						12	4	84			12		85	3						S
	27S/23E-19N04	M																		
04/10/75	5050			8.0	4150	82	23	1000	--	0	273	--	1110	69.0	--	--		299		
1545	5050			8.1	4950	4.09	1.89	43.50		.00	4.47		31.30	1.11		--		76	25.2	
						8	4	88			12		85	3						S

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP		FIELD PH	LABORATORY EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TH NCH	SAR	REM
							MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE						MILLIGRAMS PER LITER				
					CENTRAL VALLEY SAN JOAQUIN VALLEY																	
	27S/23E-19H05	M																				
04/10/75	5050				8.0	4200	67	15	988	--	0	365	--	1000	34.0	--	--			228		
1435	5050				8.0	4710	3.34	1.23	42.98		.00	5.98		28.20	.55		--			0	28.4	
							7	3	90			17		81	2							S
	27S/23E-19A06	M																				
04/10/75	5050				8.0	4500	98	20	912	--	0	284	--	1030	44.0	--	--			329		
1510	5050				7.9	4750	4.89	1.64	39.67		.00	4.65		29.05	1.03		--			94	21.9	
							11	4	86			13		84	3							S
	27S/23E-19A07	M																				
04/10/75	5050				8.0	5000	117	26	1140	--	0	404	--	1230	48.0	--	--			399		
1538	5050				7.9	5740	5.84	2.14	50.46		.00	6.62		34.69	.77		--			68	25.3	
							10	4	86			16		82	2							S
	27S/23E-20J01	M																				
04/11/75	5050		66	F	7.6	6000	367	20	1220	2.0	0	363	2390	804	72.0	4.40	--	5020		999		E
1120	5050		19	C	7.7	6410	18.31	1.64	53.07	.05	.00	5.95	49.76	17.03	1.16		--	4858		701	16.8	
							25	2	73			8	67	23	2							
	27S/23E-25C80	M																				
05/10/75	5121		76	F			92	.8	260	4.4	0	89	490	146	10.6	.44	--	1055		233		
	5806		24	C	7.9	1610	4.59	.07	11.31	.11	.00	1.46	10.20	4.13	.27		12.0	1067		160	7.4	
							29		70	1		9	64	26	2							
	27S/23E-27J01	M																				
03/06/75	5617		77	F			42	.7	250	--	0	117	276	188	10.8	.91	--	831		108		
	5806		25	C	7.8	1290	2.10	.06	10.88		.00	1.92	5.75	5.31	.17		--	826		12	10.5	
							16		83			15	44	40	1							
	27S/23E-28A80	M																				
05/10/75	5121		76	F			23	.0	110	1.6	12	25	152	66	5.2	.01	--	383		58		
	5806		24	C	8.6	590	1.15	.00	4.79	.04	.43	.41	3.16	1.89	.08		11.0	395		16	6.3	
							19		80	1	7	7	53	32	1							
	27S/23E-34C01	M																				
04/11/75	5050				7.6	2200	17	2.1	567	.7	0	764	258	233	97.0	3.10	--	1630		51		
1215	5050				8.3	2540	.85	.17	24.66	.02	.00	12.52	5.37	6.57	1.56		--	1554		0	34.5	
							3	1	96			49	21	25	6							
	27S/23E-36A02	M																				
04/23/75	5050						51	.0	120	.9	0	64	208	74	11.0	.60	--	532		123		
1215	5050				8.1	827	2.54	.00	5.22	.02	.00	1.05	4.33	2.09	.18		--	497		75	4.8	
							33		67			14	57	27	2							
	27S/24E-06F80	M																				
06/05/75	5121		77	F			4.2	.1	34	.4	19	23	15	10	4.7	.06	--	100		11		
	5806		25	C	8.8	178	.21	.01	1.48	.01	.65	.38	.31	.29	.08		17.0	117		0	4.5	
							12	1	87	1	38	22	18	17	5							
	27S/24E-06J80	M																				
01/21/75	5617		76	F			5.6	.1	32	--	6.9	47	12	13	3.4	.02	--	97		14		
	5806		24	C	8.4	170	.28	.01	1.39		.23	.77	.25	.39	.05		--	97		0	3.7	
							17	1	83		14	46	15	23	3							
	27S/24E-06R01	M																				
06/05/75	5121		77	F			3.0	.1	32	.1	18	23	12	9.6	3.7	.04	--	90		8		
	5806		25	C		160	.15	.01	1.39	.00	.60	.38	.25	.27	.06		15.0	105		0	5.0	
							10	1	90		38	24	16	17	4							
	27S/24E-08F80	M																				
05/22/75	5121		76	F			4.3	.0	28	.9	18	45	5.0	2.0	1.1	.01	--	80		11		
	5806		24	C	8.8	140	.21	.00	1.22	.02	.61	.74	.10	.06	.02		12.0	94		0	3.7	
							14		84	1	40	48	7	4	1							
	27S/24E-16R01	M																				
06/09/75	5121						13	.1	38	1.1	19	54	18	13	6.6	.34	--	137		33		
	5191				8.9	220	.65	.01	1.65	.03	.66	.89	.37	.37	.11		--	136		0	2.9	
							28		71	1	28	37	15	15	5							
	27S/24E-19N80	M																				
03/05/75	5617		75	F			2.0	.0	34	--	21	29	5.0	10	2.5	.03	--	89		5		
	5806		24	C	9.1	170	.10	.00	1.48		.72	.48	.10	.29	.04		--	90		0	6.6	
							8		94		44	29	6	18	2							
	27S/24E-27R01	M																				
03/18/75	5617		73	F			24	.2	32	--	0	68	23	34	16.6	.02	--	163		61		
	5806		23	C	7.8	280	1.20	.02	1.39		.00	.98	.48	.96	.27		--	159		12	1.8	
							46	1	53			36	18	36	10							
	27S/24E-27R80	M																				
01/28/75	5617		74	F			26	.3	32	--	0	69	34	26	13.0	.05	--	169		67		
	5806		23	C	7.7	280	1.32	.02	1.39		.00	1.13	.71	.76	.21		--	167		11	1.7	
							48	1	51			40	25	27	7							
	27S/24E-28A80	M																				
01/28/75	5617		75	F			9.0	.1	35	--	0	73	5.0	23	2.6	.04	--	113		23		
	5806		24	C	8.2	200	.45	.01	1.52		.00	1.20	.10	.45	.04		--	111		0	3.2	
							23	1	77			66	5	33	2							
	27S/24E-28H80	M																				
01/28/75	5617		75	F			4.3	.0	30	--	9.0	56	6.0	5.7	2.6	.03	--	87		11		
	5806		24	C	8.3	160	.21	.00	1.31		.30	.92	.12	.16	.04		--	85		0	4.0	
							14		86		19	60	8	10	3							
	27S/24E-28R80	M																				
01/28/75	5617		75	F			14	.1	35	--	0	58	31	21	5.2	.04	--	138		37		
	5806		24	C	7.9	240	.72	.01	1.52		.00	.95	.65	.62	.08		--	136		0	2.5	
							32		68			41	28	27	3							

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	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 / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER					
				CENTRAL VALLEY SAN JOAQUIN VALLEY																
	27S/24E-32Q01	M																		
03/16/75	5017	F	77			8.0	.1	73	--	10	35	27	12	2.5	.05	--	112	20		
	5006	C	25	8.7	190	.40	.01	1.44		.34	.57	.56	.35	.04		--	110	0	3.2	
						22	1	78		18	31	30	19	2						
	27S/24E-33A80	M																		
06/11/75	5121	F	75			10	.0	34	1.3	0	43	24	26	3.7	.06	--	121	25		
	5906	C	24	7.7	200	.50	.00	1.48	.03	.00	.70	.50	.75	.06		16.0	137	0	3.0	
						25		74	1		35	25	37	3						
	27S/25E-03H01	M																		
06/09/75	5121					24	2.2	24	4.0	0	81	24	12	5.8	.17	--	136	69		
	5191			8.1	270	1.20	.18	1.04	.10	.00	1.33	.50	.34	.09		--	136	3	1.3	S
						48	7	41	4		59	22	15	4						
	27S/25E-25A01	M																		
06/20/75	5121					35	15	24	3.9	0	87	50	19	32.3	.18	--	224	149		
	5191			8.8	400	1.75	1.23	1.04	.10	.00	1.43	1.04	.56	.52		--	223	78	0.9	S
						42	30	25	2		40	29	16	15						
	27S/25E-27J01	M																		
06/20/75	5121					50	10	25	4.1	0	94	80	21	41.2	.14	--	279	166		
	5191			7.1	440	2.50	.82	1.09	.10	.00	1.54	1.67	.60	.66		--	278	89	0.8	
						55	18	24	2		34	37	13	15						
	27S/25E-28F01	M																		
06/09/75	5121					38	5.4	--	3.1	0	101	30	3.4	44.3	.07	--	203	117		
	5191			8.1	370	1.90	.44		.08	.00	1.66	.62	.10	.71		--		34		S
											54	20	3	23						
	27S/26E-02H01	M																		
06/09/75	5121					6.0	.1	73	2.1	0	101	38	37	.5	.19	--	208	15		
	5191			8.0	360	.30	.01	3.18	.05	.00	1.66	.79	1.07	.01		--	207	0	8.1	
						9		90	1		47	22	30							
	27S/26E-15L01	M																		
06/09/75	5121					85	18	37	4.1	0	101	22	174	15.5	.11	--	407	290		
	5191			7.8	820	4.24	1.55	1.61	.10	.00	1.66	.46	4.91	.25		--	406	207	0.9	S
						57	21	21	1		23	6	67	3						
	27S/26E-28A01	M																		
06/20/75	5121					125	33	39	6.4	0	107	145	232	66.4	.16	--	701	448		
	5191			6.9	1290	6.24	2.71	1.70	.16	.00	1.75	3.02	6.54	1.87		--	700	360	0.8	S
						58	25	16	1		14	24	53	9						
	28S/22E-19D02	M																		
06/09/75	5121					110	5.6	327	3.7	0	87	220	441	.5	2.15	--	1200	313		
	5191			7.8	2400	5.79	.46	14.22	.09	.00	1.43	4.58	13.56	.01		--	1199	241	8.0	S
						28	2	69			7	23	69							
	28S/22E-14M02	M																		
06/09/75	5121					57	2.9	144	1.8	1.9	138	177	31	.5	.39	--	547	154		
	5191			8.2	1300	2.84	.24	6.26	.05	.06	2.26	3.69	2.57	.01		--	545	38	5.0	C S
						30	3	67	1	1	26	43	30							
	28S/22E-25K01	M																		
06/09/75	5121					47	5.2	123	3.1	2.2	191	145	46	.5	.71	--	468	139		
	5191			8.2	840	2.35	.43	5.35	.08	.07	3.13	3.02	1.31	.01		--	467	0	4.5	S
						29	5	65	1	1	42	40	17							
	28S/23E-01A01	M																		
03/18/75	5017	F	77			12	.0	64	--	10	18	56	56	2.5	.05	--	213	30		
	5006	C	25	8.8	350	.60	.00	2.78		.34	.30	1.17	1.60	.04		--	210	0	5.1	
						18		82		10	9	34	46	1						
	28S/23E-07C90	M																		
03/18/75	5017	F	78			162	2.3	500	--	0	48	19	1083	3.3	.34	--	1866	415		
	5006	C	26	7.6	3200	8.08	.19	21.75		.00	.79	.40	30.55	.05		--	1794	374	10.7	
						27	1	72			2	1	96							
	28S/23E-12J80	M																		
06/18/75	5121	F	71			490	13	450	5.0	0	204	1247	531	59.6	.60	--	2898	1280		
	5906	C	22	7.4	4400	24.45	1.08	19.58	.13	.00	3.34	25.96	14.97	.96		26.0	2823	1110	5.5	
						54	2	43			7	57	33	2						
	28S/23E-16K80	M																		
06/06/75	5121	F	77			49	1.1	238	1.7	0	57	237	244	9.4	.35	--	809	127		
	5906	C	25	8.2	1290	2.45	.09	10.35	.04	.00	.93	4.93	6.89	.15		15.0	824	81	9.2	
						19	1	80			7	38	53	1						
	28S/23E-17K80	M																		
03/20/75	5017	F	77			63	1.6	250	--	5.1	28	6.0	479	.5	.39	--	825	164		
	5006	C	25	8.5	1420	3.14	.13	10.88		.17	.46	.12	13.53	.01		--	820	132	8.5	
						22	1	77		1	9	1	95							
	28S/23E-24N80	M																		
06/02/75	5121	F	71			14	.1	74	.5	4.2	29	98	40	9.4	.07	--	255	35		
	5906	C	22	8.3	380	.70	.01	3.22	.01	.14	.48	2.04	1.13	.15		11.0	266	5	5.4	
						18		82		4	12	52	29	4						
	28S/23E-34R01	M																		
06/09/75	5121					227	8.0	630	3.3	0	318	800	533	8.9	2.90	--	2370	600		
	5191			8.1	3900	11.33	.66	27.41	.08	.00	5.21	16.66	15.03	.14		--	2369	339	11.2	S
						29	2	69			14	45	41							
	28S/24E-09H80	M																		
06/06/75	5121	F	76			31	.3	66	1.6	0	48	77	68	11.3	.09	--	279	79		
	5906	C	24	7.9	460	1.56	.02	2.87	.04	.00	.79	1.60	1.92	.18		14.0	293	40	3.2	
						35		64	1		18	36	43	4						

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 NCH	SAR	REM
			CENTRAL VALLEY SAN JOAQUIN VALLEY																	
	28S/24E-15M01	M																		
04/08/75	5617	77 F			11	.1	45	--	7.8	40	18	45	1.9	.14	--		152	28		
	5806	25 C	8.6	260	.55	.01	1.96		.26	.66	.37	1.27	.03		--		149	0	3.7	
					22		78		10	25	14	49	1							
	28S/24E-21CA0	M																		
05/10/75	5121	78 F			4.0	.0	34	.9	0	54	14	18	.5	.01	--		99	10		
	5806	26 C	8.2	180	.20	.00	1.48	.02	.80	.89	.29	.51	.01		11.0		109	0	4.7	
					12		87	1		52	17	30	1							
	28S/24E-34J01	M																		
04/21/75	5617	78 F			.1	.0	35	--	12	33	5.0	18	.6	.17	--		89			
	5806	26 C	9.0	140	.00	.00	1.52		.43	.54	.10	.52	.01		--		88	0	30.5	
							100		27	34	6	33	1							
	28S/25E-02K01	M																		
06/20/75	5121				100	15	45	5.8	0	67	190	59	75.3	.11	--		529	311		
	5191		7.3	800	4.99	1.23	1.96	.15	.00	1.10	3.96	1.66	1.21		--		523	256	1.1	
					60	15	24	2		14	50	21	15							S
	28S/25E-10B01	M																		
06/09/75	5121				87	6.6	70	4.2	0	94	165	39	63.1	.09	--		473	244		
	5191		8.1	1000	4.34	.54	3.05	.11	.00	1.54	3.44	1.12	.86		--		472	167	1.9	C
					54	7	38	1		22	49	16	12							S
	28S/25E-10E02	M																		
06/09/75	5121				32	1.1	47	3.3	0	74	70	31	24.8	.10	--		246	84		E
	5191		8.1	350	1.60	.09	2.04	.08	.00	1.21	1.46	.87	.40		--		246	24	2.2	
					42	2	54	2		31	37	22	10							
	28S/25E-12F01	M																		
06/20/75	5121				200	30	83	7.0	0	94	450	102	101	.11	--		1020	623		
	5191		7.0	1760	9.98	2.47	3.61	.18	.00	1.54	9.37	2.88	1.63		--		1019	546	1.4	
					61	15	22	1		10	61	19	11							S
	28S/25E-16D03	M																		
06/09/75	5121				248	6.3	131	5.8	0	74	408	188	31.0	.04	--		1060	645		
	5191		7.8	2200	12.38	.52	5.70	.15	.00	1.21	8.49	5.30	.50		--		1055	585	2.2	C
					66	3	30	1		8	55	34	3							S
	28S/25E-21A00	M																		
06/09/75	5121				122	1.7	119	4.7	0	67	207	200	22.1	.15	--		503	312		
	5191		7.7	1360	6.09	.14	5.18	.12	.00	1.10	4.31	5.64	.36		--		710	257	2.9	T
					53	1	45	1		10	38	49	3							
	28S/25E-32F01	M																		
06/09/75	5121				8.0	.1	63	.7	.9	67	3.0	43	.5	.58	--		173	20		
	5191		8.5	380	.40	.01	2.74	.02	.03	1.10	.06	1.20	.01		--		174	0	6.1	
					13		86	1	1	37	2	60								S
	28S/26E-19C01	M																		
06/20/75	5121				90	4.5	63	5.0	0	67	204	73	35.7	.10	--		511	243		
	5191		7.4	760	4.49	.37	2.74	.13	.00	1.10	4.25	2.07	.41		--		499	188	1.8	
					58	5	35	2		14	54	26	5							
	28S/26E-29J01	M																		
06/20/75	5121				40	1.8	50	3.5	0	67	100	25	8.9	.18	--		268	107		
	5191		7.4	440	2.00	.15	2.18	.09	.00	1.10	2.08	.71	.14		--		262	53	2.1	
					45	3	49	2		27	52	18	3							S
	29S/23E-02G01	M																		
05/13/75	5121	78 F			28	.2	168	2.1	0	35	26	270	.5	.01	--		513	71		
	5806	26 C	7.8	880	1.40	.02	7.31	.05	.00	.57	.54	7.63	.01		10.0		523	43	8.7	
					16		83	1		7	6	87								
	29S/23E-02J01	M																		
04/21/75	5617	78 F			169	2.0	428	--	0	57	50	793	.1	.36	--		1417	281		
	5806	26 C	7.7	2500	5.44	.16	18.62		.00	.93	1.04	22.36	.00		--		1410	234	11.1	
					22	1	77			4	4	92								
	29S/24E-01H01	M																		
06/09/75	5121				10	.1	36	.9	0	94	11	12	2.2	.21	--		119	25		
	5191		7.7	260	.50	.01	1.57	.02	.00	1.54	.23	.34	.04		--		119	0	3.1	
					24		75	1		72	11	16	2							
	29S/24E-04E00	M																		
05/13/75	5121	77 F			10	.0	41	2.0	0	42	51	18	4.2	.01	--		147	25		
	5806	25 C	8.0	230	.50	.00	1.78	.05	.00	.69	1.06	.53	.07		7.0		155	0	3.6	
					21		76	2		29	45	23	3							
	29S/24E-07B00	M																		
06/03/75	5121	78 F			27	.1	125	2.1	0	48	74	159	1.1	.01	--		412	68		
	5806	26 C	7.8	690	1.35	.01	5.44	.05	.00	.79	1.54	4.49	.02		9.0		421	29	6.6	
					20		79	1		12	23	66								
	29S/24E-07C01	M																		
06/09/75	5121				22	.2	129	1.2	0	67	85	160	4.9	.33	--		437	56		
	5191		7.5	840	1.10	.02	5.61	.03	.00	1.10	1.77	4.51	.08		--		436	1	7.5	
					16		83			15	24	60	1							S
	29S/24E-10H01	M																		
03/25/75	5617	71 F			8.0	.0	43	--	6.0	33	37	24	4.2	.33	--		142	20		
	5806	22 C	8.7	240	.40	.00	1.87		.20	.54	.77	.70	.07		--		140	0	4.2	
					18		82		9	24	34	31	3							
	29S/24E-14R02	M																		
05/13/75	5121	74 F			9.0	.0	39	1.1	0	51	43	11	7.3	.01	--		136	23		
	5806	23 C	7.7	220	.45	.00	1.70	.03	.00	.84	.90	.32	.12		10.0		146	0	3.6	
					21		78	1		39	41	15	6							
06/09/75	5121				12	.5	43	.9	0	74	18	29	6.6	.21	--		147	32		
	5806		7.7	240	.60	.04	1.87	.02	.00	1.21	.37	.83	.11		--		147	0	3.3	
					24	2	74	1		48	15	33	4							

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TM NCM	SAR	REM
					MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER					
	CENTRAL VALLEY SAN JOAQUIN VALLEY																			
03/25/75	29S/24E-18A01 M 5617 5806	76 24	F C	7.9	510	12 .60 12	.3 .02	105 4.57 88	--	0 .00	103 1.69 32	5.0 .10 2	125 3.54 66	.5 .01	.37	-- --	299 300	31 0	8.2	
06/09/75	29S/24E-19H01 M 5121 5191			7.7	370	9.0 .45 12	.1 .01	74 3.22 87	.5 .01	0 .00	67 1.10 26	13 .27 6	98 2.77 66	1.8 .03 1	.18	-- --	230 230	23 0	6.7	S
06/09/75	29S/24E-23H01 M 5121 5191			7.5	260	8.0 .40 16	.1 .01	46 2.00 82	.9 .02	0 .00	67 1.10 41	34 .71 27	13 .39 15	29.2 .47 18	.24	-- --	166 165	20 0	4.4	S
06/09/75	29S/24E-24F01 M 5121 5191			7.5	250	12 .60 21	.1 .01	52 2.26 78	1.0 .03	0 .00	60 .98 33	55 1.15 38	22 .63 21	15.5 .25 8	.18	-- --	188 188	30 0	4.1	E
06/09/75	29S/24E-24H01 M 5161 5191			7.4	480	25 1.25 30	.3 .02	67 2.91 69	1.9 .05	0 .00	67 1.10 23	103 2.14 45	50 1.41 30	4.4 .07 1	.13	-- --	285 285	64 9	3.7	S
06/09/75	29S/24E-30P80 M 5121 5191			7.6	1160	106 5.29 49	11 .96 9	103 4.48 41	4.0 .10 1	0 .00	362 4.95 46	212 4.41 41	51 1.46 13	2.2 .04	.26	-- --	642 639	313 65	2.5	
06/09/75	29S/25E-03N01 M 5161 5191			8.0	350	35 1.75 46	.8 .07 2	44 1.91 50	2.4 .06 2	0 .00	67 1.10 28	57 1.19 31	36 1.02 26	34.5 .56 14	.13	-- --	244 243	91 36	2.0	
06/09/75	29S/25E-05A02 M 5121 5191			7.5	640	57 2.84 47	.5 .04 1	70 3.05 51	3.8 .10 2	--	94 1.54 23	108 2.25 34	62 2.33 35	35.4 .57 9	.12	-- --	405	144	2.5	
06/09/75	29S/25E-06J02 M 5161 5191			7.5	660	89 4.44 64	2.1 .17 2	50 2.18 32	4.0 .10 1	0 .00	67 1.10 17	113 2.35 36	107 3.12 46	8.9 .14 2	.29	-- --	408 407	231 176	1.4	S
06/09/75	29S/25E-10P02 M 5121 5191			8.1	260	25 1.25 45	.3 .02 1	34 1.48 53	1.7 .04 1	0 .00	68 1.11 50	19 .40 18	24 .68 31	1.3 .02 1	.17	-- --	140 139	64 8	1.9	S
06/09/75	29S/25E-19N01 M 5121 5191			7.7	310	27 1.35 39	.3 .02 1	46 2.00 58	1.8 .05 1	0 .00	11 .18 8	55 1.15 51	24 .68 30	15.9 .26 11	.30	-- --	224 176	69 60	2.4	E T S
06/09/75	29S/25E-23A01 M 5121 5191			7.5	560	59 2.94 53	1.9 .16 3	55 2.39 43	3.8 .10 2	0 .00	67 1.10 20	95 1.98 36	75 2.14 39	17.7 .29 5	.10	-- --	342 341	155 100	1.9	
06/09/75	29S/25E-28A01 M 5121 5191			8.0	340	43 2.15 55	2.5 .21 5	35 1.52 39	2.3 .06 2	0 .00	168 2.75 66	35 .73 18	12 .34 8	20.4 .33 8	.22	-- --	234 233	118 0	1.4	S
06/09/75	29S/25E-28G01 M 5121 5191			8.3	340	34 1.70 53	1.7 .14 4	31 1.35 42	1.5 .04 1	0 .00	161 2.64 84	10 .21 7	6.9 .19 6	5.8 .09 3	.14	-- --	172 170	92 0	1.4	
06/09/75	29S/25E-30P80 M 5121 5191			8.9	230	22 1.10 31	.3 .02 1	54 2.35 67	1.3 .03 1	0 .00	74 1.21 34	65 1.35 38	27 .78 22	16.3 .26 7	.16	-- --	224 223	56 0	3.1	E C
06/09/75	29S/25E-31H01 M 5121 5191			7.7	720	72 3.59 53	1.3 .11 2	70 3.05 45	3.2 .08 1	0 .00	201 3.29 45	100 2.08 28	55 1.56 21	23.5 .38 5	.41	-- --	426 424	185 21	2.2	S
06/09/75	29S/25E-36H01 M 5121 5191			8.1	560	64 3.19 58	9.3 .76 14	35 1.52 27	2.4 .06 1	0 .00	156 2.56 48	68 1.42 26	29 .83 15	34.1 .55 10	.16	-- --	320 319	198 70	1.1	
06/20/75	29S/26E-02L01 M 5121 5191			7.5	530	35 1.75 34	.9 .07 1	73 3.18 62	3.7 .09 2	0 .00	74 1.21 23	110 2.29 43	53 1.51 28	21.7 .35 7	.21	-- --	335 334	91 31	3.3	S
06/20/75	29S/26E-04A01 M 5121 5191			7.4	800	75 3.74 49	13 1.07 14	63 2.74 36	5.5 .14 2	0 .00	121 1.98 25	230 4.79 60	26 .76 9	31.9 .51 6	.39	-- --	506 505	241 142	1.8	S
06/20/75	29S/26E-07M01 M 5121 5191			7.6	400	43 2.15 56	2.0 .16 4	33 1.44 38	3.3 .08 2	0 .00	74 1.21 28	77 1.60 37	42 1.21 28	21.3 .34 8	.21	-- --	260 259	116 55	1.3	S

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				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/26E-08P01	M																					
06/20/75	5121					100	8.5	45	4.7	0	107	145	78	43.0		.33	--		487	276			
	5191			7.4	760	4.99	.53	1.96	.12	.00	1.75	3.02	2.22	.69			--		476	189	1.2		
						66	7	26	2		23	39	29	9									
	29S/26E-16P01	M																					
06/09/75	5121					51	3.2	35	3.4	0	85	70	34	24.8		.17	--		265	141			
	5191			7.9	440	2.54	.26	1.52	.09	.00	1.39	1.46	.97	.40			--		264	71	1.3		
						50	6	34	2		33	35	23	9									S
	29S/26E-16Q01	M																					
06/09/75	5121					72	5.2	46	3.8	0	114	120	41	36.8		.28	--		383	201			
	5191			7.7	730	3.59	.43	2.00	.10	.00	1.87	2.50	1.17	.59			--		382	108	1.4		
						59	7	33	2		31	41	19	10									
	29S/26E-17M01	M																					
06/09/75	5121					104	10	52	4.1	0	121	120	110	37.6		.18	--		499	303			
	5191			8.0	1060	5.19	.86	2.26	.10	.00	1.98	2.50	3.10	.61			--		498	204	1.3		C
						62	10	27	1		24	31	38	7									
	29S/26E-22F01	M																					
06/20/75	5121					53	7.0	42	4.3	0	121	110	37	36.8		.26	--		379	166			
	5191			7.5	720	2.74	.58	1.83	.11	.00	1.98	2.29	1.06	.59			--		352	67	1.4		C
						52	11	35	2		33	39	18	10									S
	29S/26E-28M01	M																					
06/20/75	5121					50	4.4	35	3.7	0	101	70	37	35.9		.28	--		287	143			
	5191			7.6	450	2.50	.36	1.52	.09	.00	1.66	1.46	1.06	.58			--		286	60	1.3		
						56	8	34	2		35	31	22	12									S
	29S/26E-32N03	M																					
06/09/75	5121					18	3.5	18	1.0	.0	81	9.0	5.2	1.3		.11	--		96	59			
	5191			7.9	220	.90	.29	.78	.03	.00	1.33	.19	.15	.02			--		96	0	1.0		
						45	15	39	2		79	11	9	1									S
	29S/27E-07J01	M																					
06/26/75	5121					45	.2	78	3.2	0	48	158	44	13.0		.09	--		372	113			
	5806			7.7	550	2.25	.02	3.39	.08	.00	.79	3.29	1.25	.21			12.0		377	74	3.2		
						39		59	1		14	59	23	4									S
	29S/27E-23H01	M																					
02/12/75	5701		66	F			25	4.0	19	1.7	.5	111	14	17	3.0		--	.1	160	80			
	5701		19	C	7.9	249	1.25	.33	.83	.04	.02	1.66	.29	.48	.05			26.0	160	0	0.9		
							51	13	34	2	1	68	12	19	2								
	29S/27E-24N01	M																					
10/09/74	5701		63	F	7.3	227		25	1.0	17	1.0	.1	93	13	13	4.0		--	.2	145	69		
	5701		17	C		227	1.25	.08	.74	.04	.00	1.52	.27	.37	.06			24.0	144	0	0.9		
							54	4	35	2		68	12	17	3								
	29S/27E-25D02	M																					
03/24/75	5701		62	F			22	3.0	18	1.4	.2	95	14	13	2.0		--	.1	144	70			
	5701		17	C	7.5	225	1.10	.25	.78	.04	.01	1.56	.29	.37	.03			23.0	143	0	1.0		
							51	12	36	2		69	13	16	1								
	29S/27E-25D02	M																					
05/12/75	5701		64	F			26	3.0	19	3.3	.4	102	15	13	6.0		.11	.1	162	78			
	5701		18	C	7.8	243	1.30	.25	.83	.08	.01	1.67	.31	.37	.10			26.0	162	0	0.9		
							53	10	34	3		68	13	15	4								
	29S/27E-25G01	M																					
08/04/75	5701		65	F			27	3.0	19	2.4	.3	109	16	12	4.0		--	.2	159	82			
	5701		18	C	7.6	248	1.35	.25	.83	.06	.01	1.79	.33	.34	.06			21.0	158	0	0.9		
							54	10	33	2		71	13	13	2								
	29S/27E-25R01	M																					
01/13/75	5701		65	F			29	5.0	19	1.6	.3	107	21	15	3.0		--	.2	168	92			
	5701		18	C	7.6	265	1.45	.41	.83	.04	.01	1.75	.44	.42	.05			22.0	169	5	0.9		
							53	15	30	1		66	16	16	2								
	29S/27E-26J01	M																					
07/07/75	5701		65	F			25	2.0	18	1.9	.6	94	15	12	1.0		--	.2	142	70			
	5701		18	C	8.0	219	1.25	.16	.78	.05	.02	1.54	.31	.34	.02			20.0	142	0	0.9		
							56	7	35	2	1	69	14	15	1								
	29S/27E-35A02	M																					
08/04/75	5701		68	F			22	2.0	17	2.1	.2	90	14	11	.0		--	.2	132	64			
	5701		20	C	7.5	200	1.10	.16	.74	.05	.01	1.48	.29	.31	.00			20.0	133	0	0.9		
							54	8	36	2		71	14	15									
	29S/27E-35E01	M																					
03/24/75	5701		65	F			26	5.0	19	1.3	.2	109	14	14	.0		--	.2	154	84			
	5701		18	C	7.5	239	1.30	.41	.83	.03	.01	1.79	.29	.39	.00			21.0	154	0	0.9		
							51	16	32	1		72	12	16									
	29S/27E-35G01	M																					
08/04/75	5701		67	F			23	3.0	18	1.9	.1	97	14	12	2.0		--	.2	151	72			
	5701		19	C	7.4	220	1.15	.25	.78	.05	.00	1.59	.29	.34	.03			20.0	142	0	0.9		
							52	11	35	2		71	13	15	1								
	29S/27E-36H01	M																					
09/09/75	5701		67	F			47	9.0	25	2.3	.1	137	27	46	6.0		--	.1	256	154			
	5701		19	C	7.1	430	2.35	.74	1.09	.06	.00	2.25	.56	1.30	.10			26.0	256	42	0.9		
							55	17	26	1		53	13	31	2								
	29S/27E-36K01	M																					
10/18/74	5701		65	F	7.5	259	29	4.0	19	2.0	.2	105	18	17	.0		--	.2	165	88			
	5701		18	C	7.5	259	1.45	.33	.83	.05	.01	1.72	.37	.48	.00			25.0	166	3	0.9		
							55	12	31	2		67	14	19									
	29S/27E-36K01	M																					
08/04/75	5701		66	F			30	5.0	20	2.1	.2	127	21	22	2.0		--	.2	187	96			
	5701		19	C	7.5	287	1.50	.41	.87	.05	.01	2.08	.44	.62	.03			22.0	187	0	0.9		
							53	14	31	2		65	14	19	1								S

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TH NCH	SAR	REM
						MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER						
		CENTRAL VALLEY SAN JOAQUIN VALLEY																			
	29S/27E-36KR2	M																			
10/18/74	5701		66	F 7.4	258	30	4.0	19	1.9	.2	117	17	15	.0	--	.2		169	91		
	5701		19	C	258	1.50	.33	.83	.05	.01	1.92	.35	.42	.00		25.0		170	0	0.9	
						55	12	31	2		71	13	16								
03/24/75	5701		65	F		24	3.0	19	1.8	.3	95	16	15	2.0	--	.3		156	72		
	5701		18	C 7.7	230	1.20	.25	.83	.05	.01	1.56	.33	.42	.03		28.0		156	0	1.0	
						52	11	36	2		66	14	18	1							
	29S/28E-16E01	M																			
08/04/75	5701		66	F		32	3.0	19	1.9	.4	119	18	14	.0	--	.1		178	92		
	5701		19	C 7.7	261	1.60	.25	.83	.05	.01	1.95	.37	.39	.00		20.0		187	0	0.9	
						59	9	30	2		72	14	14								
	29S/28E-16M01	M																			
02/12/75	5701		71	F		38	4.0	20	1.4	.7	106	37	25	2.0	.30	.2		204	114		
	5701		22	C 8.0	330	1.90	.33	.87	.04	.02	1.74	.77	.71	.03		23.0		204	24	0.8	
						61	11	28	1	1	53	24	22	1							
02/18/75	5701		7	F		39	4.0	21	1.5	.9	106	38	24	5.0	--	.1		208	116		
	5701		21	C 8.1	328	1.95	.33	.91	.04	.03	1.74	.79	.68	.08		22.0		208	26	0.9	
						60	10	28	1	1	52	24	20	2							
	29S/28E-16Q01	M																			
06/04/75	5701		78	F		36	3.0	23	2.2	.5	107	34	24	.0	--	.1		195	102		
	5701		26	C 7.8	314	1.80	.25	1.00	.06	.02	1.75	.71	.68	.00		20.0		195	14	1.0	
						58	8	32	2	1	55	22	22								
	29S/28E-16R01	M																			
07/07/75	5701		78	F		27	2.0	27	1.6	.8	89	33	18	2.0	--	.2		168	76		
	5701		26	C 8.1	272	1.35	.16	1.17	.04	.03	1.46	.69	.51	.03		14.0		169	1	1.4	
						50	6	43	1	1	54	25	19	1							
	29S/28E-17R01	M																			
06/04/75	5701		70	F		46	6.0	22	2.7	.6	106	42	42	.0	--	.1		235	142		
	5701		21	C 7.9	400	2.30	.49	.96	.07	.02	1.74	.87	1.18	.00		21.0		234	52	0.8	
						60	13	25	2	1	46	23	31								
	29S/28E-19J02	M																			
01/13/75	5701		67	F		25	4.0	18	2.0	.3	97	16	12	2.0	--	.1		150	78		
	5701		19	C 7.7	231	1.25	.33	.78	.05	.01	1.59	.33	.34	.03		24.0		151	0	0.9	
						52	14	32	2		69	14	15	1							
	29S/28E-19J03	M																			
01/20/75	5701		60	F		20	3.0	17	1.2	.4	85	15	10	1.0	--	.1		135	62		
	5701		21	C 7.8	197	1.00	.25	.74	.03	.01	1.39	.31	.28	.02		28.0		135	0	0.9	
						50	12	37	1		69	15	14	1							
	29S/28E-19L01	M																			
03/24/75	5701		65	F		27	4.0	18	2.0	.5	107	17	16	.0	--	.2		165	86		
	5701		18	C 7.8	259	1.35	.33	.78	.05	.02	1.75	.35	.45	.00		28.0		165	0	0.9	
						54	13	31	2	1	68	14	18								
	29S/28E-19N02	M																			
08/04/75	5701		68	F		31	4.0	20	2.8	.2	114	29	12	1.0	--	.2		180	94		
	5701		20	C 7.4	276	1.55	.33	.87	.07	.01	1.87	.60	.34	.02		24.0		180	0	0.9	
						55	12	31	2		66	21	12	1							
	29S/28E-19Q01	M																			
06/04/75	5701		66	F		25	2.0	18	2.1	.2	100	13	10	.0	--	.1		137	70		
	5701		19	C 7.5	217	1.25	.16	.78	.05	.01	1.64	.27	.28	.00		18.0		137	0	0.9	
						56	7	35	2		75	12	13								
	29S/28E-20A01	M																			
02/12/75	5701		73	F		66	7.0	25	1.8	.6	84	82	66	7.0	--	.0		321	196		
	5701		23	C 8.0	541	3.29	.58	1.09	.05	.02	1.38	1.71	1.86	.11		23.0		320	124	0.8	
						66	12	22	1		27	34	37	2							
	29S/28E-20G02	M																			
03/24/75	5701		72	F		70	7.0	27	2.1	.5	77	81	83	.0	--	.1		337	206		
	5701		22	C 8.0	569	3.49	.58	1.17	.05	.02	1.26	1.69	2.34	.00		28.0		336	140	0.8	
						66	11	22	1		24	32	44								
	29S/28E-20H01	M																			
05/17/75	5701		76	F		24	.0	19	2.0	.7	82	16	14	.0	--	.1		140	60		
	5701		24	C 8.1	215	1.20	.00	.83	.05	.02	1.34	.33	.39	.00		24.0		140	0	1.1	
						58		40	2	1	64	16	19								
	29S/28E-20L01	M																			
05/05/75	5701		72	F		62	4.0	25	1.9	.4	82	70	61	1.0	--	.2		290	172		
	5701		22	C 7.9	496	3.09	.33	1.09	.05	.01	1.34	1.46	1.72	.02		24.0		290	104	0.8	
						68	7	24	1		29	32	38								
	29S/28E-21C01	M																			
07/07/75	5701		77	F		38	2.0	23	1.3	.6	72	51	29	.0	--	.1		196	102		
	5701		25	C 8.1	326	1.90	.16	1.00	.03	.02	1.18	1.06	.82	.00		16.0		196	43	1.0	
						61	5	32	1	1	38	34	27								
	29S/28E-21D01	M																			
07/07/75	5701		78	F		41	2.0	21	1.5	.3	85	39	34	.0	--	.1		196	112		
	5701		24	C 7.7	327	2.05	.16	.91	.04	.01	1.39	.81	.96	.00		16.0		197	41	0.9	
						65	5	29	1		44	26	30								
	29S/28E-21E01	M																			
03/24/75	5701		76	F		27	1.0	18	1.2	.7	69	23	22	1.0	--	.1		150	72		
	5701		24	C 8.2	238	1.35	.08	.78	.03	.02	1.13	.48	.62	.02		22.0		150	14	0.9	
						60	4	35	1	1	50	21	27	1							
	29S/28E-21G01	M																			
05/05/75	5701		78	F		26	.0	27	.6	1.0	49	27	26	1.0	--	.2		142	50		
	5701		26	C	244	1.30	.00	1.17	.02	.03	.80	.56	.73	.02		16.0		143	9	1.7	
						48		53	1	1	37	26	34	1							

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR	REM
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER					
				CENTRAL VALLEY SAN JOAQUIN VALLEY																
	29S/28E-21M01	M																		
01/13/75	5701	76 F				31	2.0	19	.8	.5	67	40	23	.0	--	.2	172	88		
	5701	24 C	8.0		275	1.55	.16	.83	.02	.02	1.10	.83	.65	.00		22.0	171	30	0.9	
						61	6	32	1	1	42	32	25							
	29S/28E-29Q01	M																		
01/13/75	5701	70 F				30	2.0	20	1.4	.4	94	22	20	.0	--	.1	166	84		
	5701	21 C	7.8		263	1.50	.16	.87	.04	.01	1.54	.46	.56	.00		24.0	166	6	1.0	
						58	6	34	2		60	18	22							
	29S/28E-29L01	M																		
06/04/75	5701	70 F				18	.0	22	1.3	.8	74	15	12	.0	--	.1	118	44		
	5701	21 C	8.2		190	.90	.00	.96	.03	.03	1.21	.31	.34	.00		13.0	118	0	1.4	
						48		51	2	2	64	16	18							
	29S/28E-29P01	M																		
06/04/75	5701	70 F				23	1.0	39	1.7	.8	74	63	18	.0	--	.1	192	62		
	5701	21 C	8.2		310	1.15	.08	1.70	.04	.03	1.21	1.31	.51	.00		9.0	192	0	2.2	
						39	3	57	1	1	40	43	17							
	29S/28E-29Q01	M																		
06/04/75	5701	80 F				15	1.0	52	1.6	1.4	104	37	23	.0	.12	.2	193	42		
	5701	27 C	8.3		323	.75	.08	2.26	.04	.05	1.70	.77	.65	.00		10.0	192	0	3.5	
						24	3	72	1	2	54	24	21							
	29S/28E-30A01	M																		
09/09/75	5701	68 F				23	1.0	17	1.1	.2	90	14	8.0	4.0	--	.1	136	64		
	5701	20 C	7.6		202	1.15	.08	.74	.03	.01	1.48	.29	.23	.06		22.0	135	0	0.9	
						58	4	37	2		71	14	11	3						
	29S/28E-30F02	M																		
06/04/75	5701	66 F				38	4.0	22	2.8	.3	124	32	17	3.0	--	.2	201	112		
	5701	19 C	7.5		320	1.90	.33	.96	.07	.01	2.03	.67	.48	.05		21.0	201	10	0.9	
						58	10	29	2		63	21	15	2						
	29S/28E-30G01	M																		
07/07/75	5701	67 F				38	6.0	22	2.6	.2	127	36	18	5.0	--	.1	212	122		
	5701	19 C	7.3		341	1.90	.49	.96	.07	.01	2.08	.75	.51	.08		22.0	212	15	0.9	
						56	14	28	2		61	22	15	2						
	29S/28E-30H02	M																		
07/07/75	5701	68 F				29	3.0	19	1.9	.4	102	24	13	2.0	--	.1	162	84		
	5701	20 C	7.9		251	1.45	.25	.83	.05	.01	1.67	.50	.37	.03		20.0	162	1	0.9	
						56	10	32	2		65	19	14	1						
	29S/28E-30K02	M																		
11/11/74	5701	68 F	7.6		324	36	5.0	22	2.5	.3	126	25	18	1.0	--	--	197	110		
	5701	20 C	7.6		324	1.80	.41	.96	.06	.01	2.07	.52	.51	.02		25.0	197	7	0.9	
						56	13	30	2		66	17	16	1						
05/05/75	5701	66 F				33	2.0	21	1.8	.2	112	23	13	.0	--	.1	173	90		
	5701	19 C	7.5		278	1.65	.16	.91	.05	.01	1.84	.48	.37	.00		24.0	173	0	1.0	
						60	6	33	2		68	18	14							
	29S/28E-30Q02	M																		
06/04/75	5701	68 F				33	4.0	20	2.9	.1	124	24	13	1.0	--	.1	184	100		
	5701	20 C	7.2		287	1.65	.33	.87	.07	.00	2.03	.50	.37	.02		25.0	184	0	0.9	
						57	11	30	2		70	17	13	1						
	29S/28E-30Q04	M																		
08/04/75	5701	68 F				34	5.0	20	2.4	.2	122	25	14	5.0	--	.2	190	104		
	5701	20 C	7.4		299	1.70	.41	.87	.06	.01	2.00	.52	.39	.08		24.0	190	5	0.8	
						56	13	29	2		67	17	13	3						
	29S/28E-31B02	M																		
06/04/75	5701	66 F				31	4.0	20	2.9	.3	119	20	14	2.0	--	.1	172	94		
	5701	19 C	7.5		283	1.55	.33	.87	.07	.01	1.95	.42	.39	.03		20.0	173	0	0.9	
						55	12	31	2		70	15	14	1						
	29S/28E-31B04	M																		
06/04/75	5701	66 F				31	3.0	21	2.4	.5	121	21	13	3.0	--	.1	176	92		
	5701	19 C	7.8		275	1.55	.25	.91	.06	.02	1.98	.44	.37	.05		21.0	175	0	1.0	
						56	9	33	2	1	69	15	13	2						
	29S/28E-31F02	M																		
05/05/75	5701	67 F				42	5.0	24	3.6	.2	139	28	21	9.0	.11	.0	229	124		
	5701	19 C	7.4		360	2.10	.41	1.04	.09	.01	2.28	.58	.59	.15		26.0	229	11	0.9	
						58	11	29	2		63	16	16	4						
	29S/28E-31G02	M																		
01/13/75	5701	67 F				19	2.0	25	1.0	.6	87	18	13	2.0	--	.1	143	56		
	5701	19 C	8.0		220	.95	.16	1.09	.03	.02	1.43	.37	.37	.03		20.0	143	0	1.5	
						43	7	49	1	1	64	17	17	1						
03/13/75	5701	67 F				19	1.0	25	1.3	1.2	90	17	12	2.0	.17	.1	144	54		
	5701	19 C	8.3		222	.95	.08	1.09	.03	.04	1.48	.35	.34	.03		20.0	143	0	1.5	
						44	4	51	1	2	66	16	15	1						
	29S/28E-31J02	M																		
01/13/75	5701	68 F				23	3.0	25	2.2	.5	94	23	16	4.0	--	.2	167	70		
	5701	20 C	7.9		255	1.15	.25	1.09	.06	.02	1.54	.48	.45	.06		24.0	167	0	1.3	
						45	10	43	2	1	60	19	18	2						
01/13/75	5701					--	--	--	--	--	--	--	--	--	.13	--				
	5701															--				
	29S/28E-31K02	M																		
08/04/75	5701	69 F				34	5.0	21	2.8	.1	120	28	17	3.0	--	.2	193	104		
	5701	21 C	7.0		304	1.70	.41	.91	.07	.00	1.97	.58	.48	.05		23.0	193	7	0.9	
						55	13	29	2		64	19	16	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	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR	REM
						MILLIEQUIVALENTS PER LITER															
						PERCENT REACTANCE VALUE															
	CENTRAL VALLEY SAN JOAQUIN VALLEY																				
	29S/28E-31D03	M					44	7.0	27	2.5	.3	141	38	29	9.0	--	.2	253	140		
03/24/75	5701	66	F				2.20	.58	1.17	.06	.01	2.31	.79	.82	.15		28.0	254	23	1.0	
	5701	14	C	7.5	403		55	14	29	1		57	19	20	4						
	29S/26E-32D01	M					114	8.0	49	5.2	.2	70	268	80	5.0	--	.1	583	332		
06/04/75	5701	71	F				5.94	.66	2.13	.13	.01	1.15	5.58	2.26	.08		14.0	583	272	1.2	
	5701	21	C	7.7	940		67	7	24	1		13	61	25	1						
	29S/28E-32L01	M					126	13	42	5.0	.3	80	268	85	17.0	--	.1	610	368		
08/04/75	5701	71	F				6.29	1.07	1.83	.13	.01	1.31	5.58	2.40	.27		15.0	611	302	1.0	
	5701	22	C	7.7	917		67	11	20	1		14	58	25	3						
	29S/28E-32N01	M					52	5.0	30	3.1	.6	91	73	46	7.0	--	.1	288	150		
07/07/75	5701	71	F				2.59	.41	1.31	.08	.02	1.49	1.52	1.30	.11		18.0	279	75	1.1	
	5701	21	C	8.0	455		59	9	30	2		34	34	29	2						
	29S/28E-32P02	M					88	12	42	3.7	.4	121	155	66	19.0	--	.1	467	268		
08/04/75	5701	71	F				4.39	.99	1.83	.09	.01	1.98	3.23	1.86	.31		21.0	467	170	1.1	
	5701	22	C	7.7	726		60	14	25	1		27	44	25	4						
	29S/28E-34J01	M					317	6.0	209	9.2	.1	26	815	275	71.0	--	.1	1732	818		E
05/14/75	5701	77	F				15.82	.49	9.09	.24	.00	.43	16.97	7.76	1.15		16.0	1731	795	3.2	S
	5701	25	C	7.7	2250		62	2	35	1		2	65	29	4						
	29S/28E-35E03	M					51	.0	89	5.5	.4	119	115	70	8.0	--	.1	416	128		
05/05/75	5701	76	F				2.54	.00	3.87	.14	.01	1.95	2.39	1.97	.13		19.0	416	29	3.4	
	5701	26	C	7.7	687		39		59	2		30	37	31	2						
		79	F				50	3.0	83	5.5	.6	116	115	69	9.0	--	.1	406	136		
05/14/75	5701							.25	3.61	.14	.02	1.90	2.39	1.95	.15		14.0	406	42	3.1	
	5701	26	C	7.3	675		38	4	56	2		30	37	30	2						
	30S/24E-06H01	M					50	12	100	2.0	0	207	135	51	.4	.40	--	455	174		
06/09/75	5121						2.50	.99	4.35	.05	.00	3.39	2.81	1.46	.01		--	453	5	3.3	
	5191			8.6	790		32	13	55	1		44	37	19							
	30S/24E-11J01	M					30	.4	76	1.3	0	67	120	42	.5	.09	--	305	77		
06/09/75	5121						1.50	.03	3.31	.03	.00	1.10	2.50	1.19	.01		--	304	22	3.8	
	5191			7.3	520		31	1	68	1		23	52	25							
	30S/25E-03M01	M					62	3.4	49	2.1	0	97	18	144	13.7	.26	--	336	169		
06/09/75	5121						3.09	.28	2.13	.05	.00	1.43	.37	4.06	.22		--	335	97	1.6	S
	5191			7.7	940		56	5	38	1		24	6	67	4						
	30S/25E-04R01	M					49	1.7	46	1.9	0	141	45	21	28.8	.19	--	264	129		
06/09/75	5121						2.45	.14	2.00	.05	.00	2.31	.94	.60	.46		--	263	14	1.8	S
	5191			8.1	450		53	3	43	1		54	22	14	11						
	30S/25E-09L01	M					15	.3	35	.7	0	94	10	9.6	2.7	.04	--	120	39		
06/09/75	5121						.75	.02	1.52	.02	.00	1.54	.21	.27	.04		--	120	0	2.4	S
	5191			8.1	230		32	1	66	1		75	10	13	2						
	30S/25E-24A01	M					20	1.5	35	.6	0	114	7.0	7.7	2.7	.03	--	132	56		
06/09/75	5121						1.00	.12	1.52	.02	.00	1.87	.15	.22	.04		--	131	0	2.0	S
	5191			8.1	250		38	5	57	1		82	7	10	2						
	30S/25E-29M01	M					4.0	.2	75	.6	0	67	6.0	76	.5	.56	--	197	11		
06/09/75	5121						.20	.02	3.26	.02	.00	1.10	.12	2.17	.01		--	197	0	9.9	
	5191			8.1	360		8	1	93	1		32	4	64							
	30S/26E-34A01	M					33	1.4	37	2.0	0	116	42	21	1.9	.15	--	197	88		
06/26/75	5121						1.65	.12	1.61	.05	.00	1.90	.87	.61	.03		16.0	212	0	1.7	
	5806			7.6	340		48	3	47	1		56	26	18	1						
	30S/27E-01B02	M					21	1.0	20	1.6	.5	92	12	8.0	.0	--	.1	134	58		
05/05/75	5701	66	F				1.05	.08	.87	.04	.02	1.51	.25	.23	.00		24.0	133	0	1.2	
	5701	16	C	7.9	207		51	4	43	2	1	75	12	11							
	30S/27E-01G02	M					66	10	39	4.3	.2	198	63	37	36.0	--	.1	370	210		
06/04/75	5701	68	F				3.39	.82	1.70	.11	.01	3.25	1.31	1.04	.42		26.0	371	48	1.2	
	5701	21	C	7.1	600		56	14	28	2		54	22	17	7						
	30S/27E-01J01	M					33	4.0	21	2.3	.6	123	25	15	3.0	--	.2	183	100		
07/07/75	5701	66	F				1.65	.33	.91	.06	.02	2.02	.52	.42	.05		18.0	182	0	0.9	
	5701	19	C	7.9	293		56	11	31	2	1	67	17	14	2						
	30S/27E-01K01	M					42	6.0	32	3.7	.3	153	36	20	14.0	--	.1	255	130		
05/05/75	5701	67	F				2.10	.49	1.39	.09	.01	2.51	.75	.56	.23		26.0	255	4	1.2	
	5701	14	C	7.4	395		52	12	34	2		62	18	14	6						

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 NCH	SAR	REM
					CENTRAL VALLEY SAN JOAQUIN VALLEY														
	30S/27E-01M01	M																	
09/09/75	5701	65	F		43	8.0	21	2.2	.1	159	28	16	14.0	--	.1	236	142		
	5701	18	C	7.0	378	2.15	.66	.91	.06	.00	2.61	.58	.45	.23		25.0	235	10	0.8
						57	17	24	2		67	15	12	6					
	30S/27E-02A02	M																	
01/13/75	5701	65	F		28	4.0	20	2.6	.3	109	17	14	5.0	--	.2	169	88		
	5701	18	C	7.6	267	1.40	.33	.87	.07	.01	1.79	.35	.39	.08		24.0	168	0	0.9
						52	12	33	3		68	13	15	3					
	30S/27E-02F01	M																	
08/04/75	5701	67	F		34	6.0	22	2.4	.1	122	19	21	5.0	--	.2	193	108		
	5701	19	C	7.2	317	1.70	.49	.96	.06	.00	2.00	.40	.59	.08		24.0	193	10	0.9
						53	15	30	2		65	13	19	3					
	30S/27E-02H01	M																	
09/09/75	5701	67	F		43	6.0	23	2.3	.1	151	27	17	20.0	--	.1	240	134		
	5701	19	C	7.0	374	2.15	.49	1.00	.06	.00	2.47	.56	.48	.32		26.0	239	9	0.9
						58	13	27	2		64	15	13	8					
	30S/27E-02P01	M																	
10/09/74	5701	65	F	7.2	342	35	6.0	23	1.9	.1	115	23	23	14.0	--	.2	210	110	
	5701	18	C	7.2	342	1.75	.49	1.00	.05	.00	1.88	.48	.65	.23		28.0	211	18	0.9
						53	15	30	2		58	15	20	7					
	30S/27E-11B01	M																	
10/09/74	5701	65	F	7.2	391	39	7.0	27	2.4	.2	144	25	24	10.0	--	.2	235	126	
	5701	18	C	7.2	391	1.95	.58	1.17	.06	.01	2.36	.52	.68	.16		30.0	235	8	1.0
						52	15	31	2		63	14	18	4					
	30S/27E-11D02	M																	
02/12/75	5701	65	F			24	3.0	18	1.6	.5	99	14	12	2.0	--	.2	147	72	
	5701	18	C	7.9	288	1.20	.25	.78	.04	.02	1.62	.29	.34	.03		23.0	147	0	0.9 C
						53	11	34	2	1	70	13	15	1					
	30S/27E-11R01	M																	
10/09/74	5701	66	F	7.1	454	45	10	30	2.8	.1	168	39	21	20.0	--	.1	282	154	
	5701	19	C	7.1	454	2.25	.82	1.31	.07	.00	2.75	.81	.59	.32		31.0	282	16	1.1
						51	18	29	2		62	18	13	7					
	30S/27E-12L02	M																	
10/07/74	5701					--	--	--	--	--	--	--	--	--	.18	--			
	5701															--			
05/05/75	5701	67	F			54	9.0	30	4.1	.2	183	43	22	16.0	--	.0	300	172	
	5701	19	C	7.2	467	2.69	.74	1.31	.10	.01	3.00	.90	.62	.26		32.0	300	21	1.0
						56	15	27	2		63	19	13	5					
	30S/27E-12N02	M																	
10/09/74	5701	64	F	7.3	405	45	8.0	23	2.1	.2	163	34	18	8.0	--	.2	247	145	
	5701	18	C	7.3	405	2.25	.66	1.00	.05	.01	2.67	.71	.51	.13		29.0	247	12	0.8
						57	17	25	1		66	18	13	3					
	30S/27E-12R01	M																	
09/09/75	5701	67	F			27	5.0	19	1.6	.2	107	20	10	8.0	--	.2	169	88	
	5701	19	C	7.4	256	1.35	.41	.83	.04	.01	1.75	.42	.28	.13		26.0	169	0	0.9
						51	16	32	2		68	16	11	5					
	30S/27E-13C01	M																	
10/09/74	5701	65	F	7.8	399	41	8.0	27	2.0	.1	164	31	16	14.0	--	.2	249	135	
	5701	18	C	7.8	399	2.05	.66	1.17	.05	.00	2.69	.65	.45	.23		30.0	250	1	1.0
						52	17	30	1		67	16	11	6					
	30S/27E-13M01	M																	
02/12/75	5701	64	F			33	6.0	19	1.8	.5	124	22	13	5.0	--	.1	182	106	
	5701	18	C	7.8	295	1.65	.49	.83	.05	.02	2.03	.46	.37	.08		22.0	183	5	0.8
						55	16	27	2	1	69	16	13	3					
	30S/27E-13M02	M																	
02/18/75	5701	66	F			28	5.0	19	1.8	.8	118	19	12	6.0	--	.2	174	92	
	5701	19	C	8.0	263	1.40	.41	.83	.05	.03	1.93	.40	.34	.10		24.0	174	0	0.9
						52	15	31	2	1	69	14	12	4					
	30S/27E-14M02	M																	
10/09/74	5701	64	F	7.6	262	28	5.0	18	1.9	.3	114	18	12	1.0	--	.2	166	90	
	5701	18	C	7.6	262	1.40	.41	.78	.05	.01	1.87	.37	.34	.02		25.0	165	0	0.8
						53	16	30	2		72	14	13	1					
02/12/75	5701	64	F			26	4.0	17	1.6	.6	106	16	11	2.0	--	.2	156	82	
	5701	18	C	7.9	238	1.30	.33	.74	.04	.02	1.74	.33	.31	.03		26.0	156	0	0.8
						54	14	31	2	1	72	14	13	1					
	30S/27E-18C01	M																	
06/26/75	5121					53	8.9	27	2.9	0	178	37	21	21.4	.11	--	260	170	
	5806			7.8	440	2.64	.73	1.17	.07	.00	2.92	.77	.62	.35		25.0	285	23	0.9
						57	16	25	2		63	17	13	8					
	30S/27E-20F01	M																	
06/20/75	5121					25	8.0	25	3.0	0	128	35	14	13.7	.26	--	188	95	
	5191			7.8	380	1.25	.66	1.09	.08	.00	2.10	.73	.40	.22		--	187	0	1.1 5
						41	21	35	3		61	21	12	6					
	30S/27E-23C02	M																	
07/07/75	5701	68	F			38	6.0	21	2.1	.7	126	29	15	3.0	--	.2	192	114	
	5701	20	C	7.9	315	1.80	.49	.91	.05	.02	2.07	.60	.42	.05		18.0	193	10	0.9
						55	15	28	2	1	66	19	13	2					
	30S/27E-23C03	M																	
05/05/75	5701	64	F			38	5.0	22	2.0	.4	136	29	14	4.0	--	.2	206	116	
	5701	18	C	7.6	332	1.90	.41	.96	.05	.01	2.23	.60	.39	.06		24.0	205	4	0.9
						57	12	29	2		68	18	12	2					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TM NCM	SAR	REM
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER						
		CENTRAL VALLEY SAN JOAQUIN VALLEY																			
	30S/27E-23C04	M																			
07/07/75	5701	67	F			39	6.0	21	2.1	.5	136	31	17	8.0	--	.1	213	124			
	5701	19	C	7.7	337	1.95	.49	.91	.05	.02	2.23	.65	.48	.13		21.0	212	10	0.8		
						57	14	27	1	1	64	19	14	4							
	30S/27E-23D01	M																			
03/24/75	5701	64	F			27	3.0	19	1.4	.3	102	18	12	4.0	--	.2	155	82			
	5701	18	C	7.7	248	1.35	.25	.83	.04	.01	1.67	.37	.34	.06		19.0	154	0	0.9		
						55	10	34	2		68	15	14	2							
	30S/28E-05B01	M																			
02/12/75	5701	70	F			54	10	33	2.6	.9	133	45	58	23.0	--	.1	322	178			
	5701	21	C	8.0	510	2.69	.82	1.44	.07	.03	2.18	.94	1.64	.37		30.0	322	65	1.1		
						54	16	29	1	1	42	18	32	7							
	30S/28E-05C01	M																			
09/10/75	5701	67	F			63	11	32	2.7	.3	175	49	44	20.0	--	.1	335	202			
	5701	19	C	7.4	537	3.14	.90	1.39	.07	.01	2.87	1.02	1.24	.32		27.0	335	58	1.0		
						57	16	25	1		53	19	23	6							
	30S/28E-05E01	M																			
01/13/75	5701	66	F			46	8.0	25	2.7	.2	132	35	36	8.0	--	.1	251	148			
	5701	19	C	7.4	415	2.30	.66	1.09	.07	.01	2.16	.73	1.02	.13		24.0	250	40	0.9		
						56	16	26	2		53	18	25	3							
	30S/28E-05F01	M																			
02/03/75	5701	68	F			38	6.0	27	2.5	.7	123	34	26	12.0	.11	.1	230	120			
	5701	20	C	7.9	365	1.90	.49	1.17	.06	.02	2.02	.71	.73	.19		24.0	231	18	1.1		
						52	14	32	2	1	55	19	20	5							
	30S/28E-05K01	M																			
03/24/75	5701	68	F			39	5.0	29	2.0	.9	125	41	21	8.0	--	.1	230	120			
	5701	20	C	8.0	364	1.95	.41	1.28	.05	.03	2.05	.85	.59	.13		22.0	229	14	1.2		
						53	11	34	1	1	56	23	16	4							
	30S/28E-05N01	M																			
02/12/75	5701	70	F			23	2.0	27	1.8	1.1	105	20	15	3.0	--	.2	161	68			
	5701	21	C	8.2	264	1.15	.16	1.17	.05	.04	1.72	.42	.42	.05		17.0	162	0	1.5		
						45	6	46	2	2	65	16	16	2							
	30S/28E-06C02	M																			
09/10/75	5701	66	F			47	8.0	24	2.7	.1	151	36	21	14.0	--	.1	252	144			
	5701	19	C	7.9	398	2.35	.49	1.04	.07	.00	2.47	.75	.59	.23		26.0	251	19	0.9		
						59	12	26	2		61	19	15	6							
	30S/28E-06C03	M																			
05/05/75	5701	66	F			41	5.0	25	2.4	.2	124	26	32	3.0	--	.1	220	122			
	5701	19	C	7.4	371	2.05	.41	1.09	.06	.01	2.03	.54	.90	.05		24.0	220	21	1.0		
						57	11	30	2		58	15	25	1							
	30S/28E-06G02	M																			
08/04/75	5701	67	F			48	8.0	25	3.0	.2	151	40	27	4.0	--	.2	251	148			
	5701	19	C	7.2	407	2.30	.66	1.09	.08	.01	2.47	.83	.76	.06		23.0	250	24	0.9		
						56	16	26	2		60	20	18	1							
	30S/28E-06M02	M																			
03/24/75	5701	66	F			30	5.0	22	2.2	.3	112	25	17	6.0	.14	.2	188	96			
	5701	19	C	7.6	290	1.50	.41	.96	.06	.01	1.84	.52	.48	.10		26.0	189	3	1.0		
						51	14	33	2		62	18	16	3							
	30S/28E-07C01	M																			
09/09/75	5701	68	F			42	8.0	23	2.2	.1	139	34	22	13.0	--	.1	240	138			
	5701	20	C	7.2	378	2.10	.66	1.00	.06	.00	2.28	.71	.62	.21		27.0	240	24	0.9		
						55	17	26	2		60	19	16	5							
	30S/28E-07E01	M																			
07/07/75	5701	68	F			37	6.0	21	2.3	.2	127	29	18	7.0	--	.2	204	118			
	5701	20	C	7.4	327	1.85	.49	.91	.06	.01	2.08	.60	.51	.11		22.0	205	13	0.8		
						56	15	27	2		63	18	15	3							
	30S/28E-08B01	M																			
10/07/74	5701					--	--	--	--	--	--	--	--	--	.08	--					
	5701															--					
07/07/75	5701	69	F			59	7.0	42	3.3	.7	128	96	40	12.0	--	.1	341	176			
	5701	21	C	7.9	550	2.94	.58	1.83	.08	.02	2.10	2.00	1.13	.19		18.0	341	70	1.4		
						54	11	34	1		39	37	21	3							
	30S/28E-08H02	M																			
01/13/75	5701	72	F			26	4.0	32	2.6	.5	99	25	25	12.0	.13	.2	193	82			
	5701	22	C	7.9	322	1.30	.33	1.39	.07	.02	1.62	.52	.71	.19		18.0	194	0	1.5		
						42	11	45	2	1	53	17	23	6							
	30S/28E-17A01	M																			
10/09/74	5701	70	F	7.9	492	35	12	42	3.5	.7	131	40	43	26.0	--	.3	296	135			
	5701	21	C	7.9	492	1.75	.99	1.83	.09	.02	2.15	.83	1.21	.42		30.0	297	29	1.6		
						36	21	39	2		46	18	26	9							
	30S/28E-18B01	M																			
05/05/75	5701	70	F			43	9.0	47	5.0	.6	138	46	46	32.0	--	.3	328	144			
	5701	21	C	7.8	523	2.15	.74	2.04	.13	.02	2.26	.96	1.30	.52		32.0	328	31	1.7		
						42	15	40	3		45	19	26	10							
	30S/28E-18H01	M																			
09/09/75	5701	66	F			46	7.0	25	1.8	.2	146	39	20	17.0	--	.2	253	144			
	5701	19	C	7.3	395	2.30	.58	1.09	.05	.01	2.39	.81	.56	.27		25.0	253	24	0.9		
						57	14	27	1		59	20	14	7							
	30S/28E-18E01	M																			
02/12/75	5701	67	F			34	6.0	20	1.5	.5	128	24	14	6.0	--	.2	195	108			
	5701	19	C	7.8	318	1.70	.49	.87	.04	.02	2.10	.50	.39	.10		26.0	195	4	0.8		
						55	16	28	1	1	68	16	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		MILLIGRAMS PER LITER					REM
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TH NCH	SAR	
	CENTRAL VALLEY SAN JOAQUIN VALLEY																			
	3S/26E-25N01 M																			
06/26/75	5121				58	12	48	6.5	0	222	73	31	6.5	.17	--		347	196		
	5906		7.9	580	2.89	1.00	2.09	.17	.00	3.64	1.52	.89	.10			22.0	367	13	1.5	
					47	16	34	3		59	25	14	2							
	3S/28E-28J01 M																			
06/26/75	5121				67	11	35	4.3	0	211	73	27	14.0	.17	--		338	217		
	5906		7.5	580	3.34	.98	1.52	.11	.00	3.46	1.52	.77	.23			29.0	365	43	1.0	
					56	16	26	2		58	25	13	4							
	3S/28E-32H01 M																			
06/26/75	5121				31	9.0	46	5.3	0	167	48	19	9.3	.15	--		252	115		
	5906		7.7	430	1.55	.74	2.00	.14	.00	2.74	1.00	.54	.15			28.0	278	0	1.9	
					35	17	45	3		62	23	12	3							
	3S/28E-32N01 M																			
06/09/75	5121				30	9.6	50	5.2	0	175	100	13	2.2	.33	--		298	114		
	5191		8.0	450	1.50	.79	2.18	.13	.00	2.87	2.08	.38	.04		--		297	0	2.0	
					33	17	47	3		53	39	7	1							S
	3S/29E-22J01 M																			
06/09/75	5121				500	120	1010	23	0	0	2100	1140	59.8	3.80	--		5030	1992		
	5191		6.1	8600	27.94	9.87	43.94	.60	.00	.00	43.72	32.15	.96		--		5017	1892	10.1	
					34	12	53	1			57	42	1							S
	3S/25E-11G01 M																			
06/09/75	5121				10	.2	111	.5	0	101	110	64	.5	.65	--		347	26		E
	5191		8.0	490	.50	.02	4.83	.01	.00	1.66	2.29	1.81	.01		--		347	0	9.5	
					9		90			29	40	31								S
	3S/25E-13R01 M																			
06/09/75	5121				3.0	.1	72	1.0	68	0	45	17	.5	.55	--		208	8		
	5191		8.8	330	.15	.01	3.13	.03	2.27	.00	.94	.50	.01		--		208	0	11.1	
					5		94	1	61		25	13								S
	3S/26E-26M01 M																			
06/20/75	5121				7.5	1.0	63	3.5	0	101	64	12	.9	.53	--		203	23		
	5191		7.9	380	.37	.08	2.74	.09	.00	1.66	1.33	.35	.01		--		203	0	5.7	
					11	2	84	3		50	40	10								
	3S/26E-27M02 M																			
06/20/75	5121				10	.5	47	2.5	0	67	132	10	.5	.45	--		262	40		
	5191		7.1	440	.75	.04	2.91	.06	.00	1.10	2.75	.30	.01		--		262	0	4.8	
					20	1	77	2		26	66	7								S
	3S/26E-30G02 M																			
06/26/75	5121				8.0	.1	74	1.5	0	110	81	6.0	.5	.34	--		226	20		
	5906		8.2	360	.40	.01	3.22	.04	.00	1.80	1.69	.17	.01			23.0	249	0	7.1	
					11		88	1		49	46	5								
	3S/26E-31G01 M																			
06/20/75	5121				9.5	1.0	75	3.2	0	114	90	7.1	.5	.51	--		244	28		
	5191		7.9	460	.47	.08	3.26	.08	.00	1.87	1.87	.20	.01		--		243	0	6.2	
					12	2	84	2		47	47	5								
	3S/26E-36A01 M																			
06/26/75	5121				10	1.1	64	1.2	0	96	74	9.6	.5	.15	--		209	30		
	5906		7.8	330	.50	.09	2.78	.03	.00	1.57	1.54	.27	.01			26.0	234	0	5.1	
					15	3	82	1		46	45	8								
	3S/27E-02G01 M																			
06/26/75	5121				38	6.6	21	2.4	0	153	24	11	6.5	.13	--		186	123		
	5906		7.9	340	1.90	.54	.91	.06	.00	2.51	.50	.31	.10			26.0	211	0	0.8	
					56	16	27	2		73	15	9	3							
	3S/27E-04L01 M																			
06/26/75	5121				23	2.5	21	2.0	0	118	17	6.0	.5	.13	--		126	68		
	5906		7.7	240	1.15	.21	.91	.05	.00	1.80	.35	.17	.01			24.0	150	0	1.1	
					50	9	39	2		77	15	7								
	3S/27E-10C02 M																			
06/26/75	5121				92	9.3	32	3.2	0	181	82	20	6.5	.15	--		305	194		
	5906		7.4	520	3.09	.76	1.39	.08	.00	2.97	1.71	.57	.10			28.0	332	44	1.0	
					58	14	26	2		56	32	11	2							
	3S/27E-12J02 M																			
06/20/75	5121				55	6.5	40	4.0	0	168	52	16	26.6	.25	--		284	164		
	5191		7.7	450	2.74	.53	1.74	.10	.00	2.75	1.08	.45	.43		--		283	26	1.4	
					54	10	34	2		58	23	10	9							S
	3S/27E-14F01 M																			
06/26/75	5121				45	5.6	40	2.6	0	176	51	20	.9	.19	--		253	136		
	5906		8.0	440	2.25	.46	1.74	.07	.00	2.88	1.06	.57	.01			28.0	280	0	1.5	
					50	10	38	2		64	23	13								
	3S/27E-14J02 M																			
06/20/75	5121				10	1.8	20	1.7	0	80	35	3.5	.5	.30	--		103	32		E
	5191		7.4	130	.50	.15	.87	.04	.00	.98	.73	.10	.01		--		102	0	1.5	C
					32	10	56	3		54	40	5	1							S
	3S/27E-15L01 M																			
06/20/75	5121				70	8.0	45	4.5	0	228	110	32	9.3	.30	--		393	208		
	5191		7.3	660	3.49	.66	1.96	.12	.00	3.74	2.29	.91	.15		--		391	21	1.4	
					56	11	31	2		53	32	13	2							S
	3S/27E-17J01 M																			
06/20/75	5121				75	5.0	45	5.0	0	235	120	28	5.3	.26	--		402	208		
	5191		7.7	700	3.74	.41	1.96	.13	.00	3.85	2.50	.81	.09		--		400	15	1.4	
					60	7	31	2		53	34	11	1							S

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 NCH	SAR	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
06/20/75	31S/27E-29F01 5121 5191	M		7.7	850	90 4.49 54	6.0 .49 6	73 3.18 38	4.8 .12 1	0 .00	289 4.74 61	110 2.29 30	25 .71 9	.4 .01	.20	-- --	454 452	249 12	2.0	S
06/20/75	31S/27E-30A01 5121 5191	M		7.8	370	40 2.00 43	3.8 .31 7	53 2.31 49	2.0 .05 1	0 .00	154 2.52 58	62 1.29 29	19 .56 13	.5 .01	.29	-- --	258 257	116 0	2.1	C S
06/26/75	31S/27E-31C01 5806	M		7.7	320	13 .65 20	.8 .07 2	56 2.44 78	1.2 .03 1	0 .00	116 1.90 60	46 .96 30	11 .32 10	.5 .01	.21	-- 27.0	187 213	36 0	4.1	
06/26/75	31S/28E-13H02 5806	M		7.9	680	64 3.19 45	9.7 .80 11	69 3.00 42	5.5 .14 2	0 .00	203 3.33 47	99 2.06 29	42 1.20 17	34.5 .56 8	.23	-- 23.0	426 447	200 33	2.1	
06/26/75	31S/28E-16E01 5806	M		7.5	880	81 4.04 46	9.0 .74 8	90 3.92 44	5.3 .14 2	0 .00	142 2.33 26	149 3.10 35	120 3.40 38	.5 .01	.15	-- 22.0	526 547	240 123	2.5	
06/26/75	31S/28E-31D01 5806	M		7.9	340	25 1.25 30	2.4 .20 6	46 2.00 57	1.7 .04 1	0 .00	121 1.98 57	42 .87 25	21 .61 18	.5 .01	.15	-- 19.0	200 218	73 0	2.4	
06/26/75	31S/28E-33J03 5806	M		8.0	260	8.0 .40 15	1.9 .15 6	46 2.00 78	2.8 .07 3	0 .00	111 1.82 69	33 .69 26	3.9 .11 4	.5 .01	.13	-- 10.0	151 161	28 0	3.8	
06/26/75	31S/28E-36A01 5806	M		7.9	260	8.0 .40 16	2.1 .17 7	44 1.91 75	3.2 .08 3	0 .00	99 1.62 64	29 .60 24	11 .32 13	.9 .01	.11	-- 10.0	148 157	29 0	3.6	
05/23/75	31S/29E-02A01 5806	M		7.5	850	77 3.84 44	24 1.97 23	60 2.61 30	8.1 .21 2	0 .00	267 4.38 51	98 2.04 24	46 1.31 15	58.5 .94 11	.22	-- 22.0	505 526	293 72	1.5	
05/23/75	31S/29E-03A02 5806	M		7.5	680	55 2.74 39	24 1.97 28	50 2.18 31	8.0 .20 3	0 .00	250 4.10 58	81 1.69 24	19 .56 8	48.4 .78 11	.18	-- 22.0	411 431	238 31	1.4	
05/23/75	31S/29E-04P01 5806	M		7.8	590	53 2.64 43	11 .95 15	56 2.44 39	7.0 .18 3	0 .00	201 3.29 53	72 1.50 24	48 1.37 22	4.0 .06 1	.22	-- 22.0	352 373	180 15	1.8	
06/26/75	31S/29E-07A01 5806	M		8.0	620	56 2.79 44	13 1.12 18	51 2.22 35	6.4 .16 3	0 .00	204 3.34 53	81 1.69 27	31 .88 14	24.2 .39 6	.15	-- 22.0	366 386	197 29	1.6	
05/23/75	31S/29E-11D01 5806	M		7.4	860	82 4.09 47	17 1.40 16	70 3.05 35	7.0 .18 2	0 .00	256 4.20 48	97 2.02 23	59 1.69 19	61.5 .83 9	.18	-- 22.0	512 532	276 65	1.8	
06/26/75	31S/29E-16C80 5806	M		7.9	740	72 3.59 48	16 1.34 18	54 2.35 32	6.5 .17 2	0 .00	225 3.69 49	79 1.64 22	47 1.33 18	50.3 .81 11	.09	-- 22.0	437 458	248 62	1.5	
06/26/75	31S/29E-19R01 5806	M		7.9	730	58 2.89 39	9.4 .77 10	82 3.57 49	5.2 .13 2	0 .00	207 3.39 46	82 1.71 23	60 1.71 23	34.5 .56 8	.59	-- 25.0	436 459	184 14	2.6	
06/26/75	32S/26E-04G01 5806	M		7.3	1350	154 7.68 57	8.6 .54 4	120 5.22 39	6.0 .15 1	0 .00	72 1.18 9	578 12.03 88	12 .34 2	3.7 .06	.38	-- 23.0	916 939	413 352	2.6	
06/26/75	32S/26E-10R01 5806	M		7.5	1180	106 5.29 44	1.7 .14 1	150 6.53 54	3.7 .09 1	0 .00	70 1.15 10	519 10.81 90	3.5 .10 1	.5 .01	.57	-- 16.0	819 835	272 214	4.0	E
05/23/75	32S/26E-25P01 5806	M		7.7	1600	150 7.49 48	13 1.14 7	172 7.49 46	8.2 .21 1	0 .00	45 1.56 10	693 14.43 88	12 .34 2	.5 .01	.33	-- 17.0	1097 1114	433 354	3.6	
06/26/75	32S/27E-03P01 5806	M		7.4	430	30 1.50 34	6.6 .54 12	52 2.26 52	3.1 .08 2	0 .00	147 2.41 55	74 1.54 35	14 .42 10	.5 .01	.30	-- 28.0	255 282	103 0	2.2	
06/20/75	32S/27E-14A01 5191	M		7.5	440	25 1.25 28	8.0 .66 14	63 2.74 57	5.6 .14 3	0 .00	195 3.20 65	57 1.19 24	17 .50 10	3.1 .05 1	.45	-- --	277 276	95 0	2.8	

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR	REM
			MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE											WILLIGRAMS PER LITER					
		CENTRAL VALLEY SAN JOAQUIN VALLEY																	
	32S/27E-15A01 M																		
06/20/75	5121				35	6.0	67	5.6	0	195	110	21	5.8	.38	--	348	112		
	5191		7.5	650	1.75	.49	2.91	.14	.00	3.20	2.29	.60	.09		--	347	0	2.0	
					33	9	55	3		52	37	10	1						S
	32S/27E-23A01 M																		
06/26/75	5121				57	10	93	5.1	0	148	227	24	.6	.38	--	491	184		
	5806		7.9	770	2.84	.82	4.05	.13	.00	2.43	4.73	.68	.01		17.0	507	62	3.0	
					36	10	52	2		31	60	9							
	32S/27E-23N01 M																		
06/20/75	5121				56	12	95	6.6	0	175	200	28	.4	.37	--	486	189		
	5191		7.9	840	2.79	.99	4.13	.17	.00	2.87	4.16	.81	.01		--	485	46	3.0	
					35	12	51	2		37	53	10							S
	32S/27E-24N01 M																		
06/20/75	5121				71	24	113	9.5	0	181	300	30	1.3	.53	--	640	276		
	5191		7.8	1090	3.54	1.97	4.92	.24	.00	2.97	6.25	.86	.02		--	639	127	3.0	
					33	18	46	2		29	62	9							S
	32S/27E-32L01 M																		
05/23/75	5121				166	30	190	10	0	35	814	60	5.0	.31	--	1293	540		
	5806		7.5	1910	8.28	2.47	8.27	.26	.00	.57	16.95	1.70	.08		.5	1293	909	3.6	
					43	13	43	1		3	88	9							
	32S/26E-01P01 M																		
06/26/75	5121				5.0	1.3	47	2.9	0	95	39	3.9	.8	.15	--	147	18		
	5806		8.0	240	.25	.11	2.04	.07	.00	1.56	.79	.11	.01		8.0	154	0	4.8	
					10	4	83	3		63	32	4							
	09N/20W-29R01 S																		
01/06/75	5803				23	33	46	3.7	0	231	78	15	4.9	--	.3	318*	196		E
	5803		7.8	400	1.16	2.77	2.02	.09	.00	3.79	1.64	.44	.08		--	320	7	1.4	C
					19	46	33	1		64	28	7	1						
09/25/75	5050			480	41	12	45	3.0	2.0	211	50	11	3.9	.20	--	267	152		
1010	5050		8.4	475	2.05	.99	1.96	.08	.07	3.46	1.04	.31	.06		--	272	0	1.6	
					40	19	39	2	1	70	21	6	1						
	09N/20W-30D01 S																		
09/25/75	5050			614	57	16	45	1.7	0	198	109	11	14.0	.10	--	336	209		
0900	5050		8.3	586	2.84	1.32	1.96	.04	.00	3.25	2.27	.31	.23		--	351	46	1.4	
					46	21	32	1		54	37	5	4						
	09N/21W-25A01 S																		
09/25/75	5050			450	48	6.3	39	1.2	0	158	77	7.6	8.2	.00	--	256	146		
	5050		8.3	452	2.40	.52	1.70	.03	.00	2.59	1.60	.21	.13		--	265	17	1.4	
					52	11	37	1		57	35	5	3						
	11N/18W-16P80 S																		
08/05/75	5649				57	16	48	--	0	314	35	11	12.4	.32	--	339	209		
	5806		7.7	650	2.84	1.32	2.09		.00	5.15	.73	.31	.20		--	334	0	1.4	
					45	21	33			81	11	5	3						
	11N/20W-13M01 S																		
05/23/75	5121				7.8	1.6	66	4.3	0	143	43	9.2	.1	.24	--	204	26		
	5806		7.5	360	.39	.13	2.87	.11	.00	2.34	.90	.26	.00		12.0	215	0	5.6	
					11	4	82	3		67	26	7							
	11N/20W-14M01 S																		
05/23/75	5121				1.1	.1	310	7.6	0	143	493	34	9.1	.49	--	926	3		
	5806		8.1	1340	.05	.01	13.49	.19	.00	2.34	10.26	.96	.15		19.0	945	0	75.9	
							98	1		17	75	7	1						

TABLE E-2

MINOR ELEMENT ANALYSES OF GROUND WATER

Abbreviations and Codes used in this table are:

Abbreviations

D	Dissolved Concentration
T	Total Concentration
REM	Remarks

Sampler (SAMP) and Laboratory (LAB) Codes

5701	California Water Service Company
5803	Hornkohl Laboratory

TABLE E-2

MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH FC	TEMP FH		ARSENIC	BARIUM CADMIUM	CHROM (ALL) CHROM (HEX)	COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
							CONSTITUENTS IN MILLIGRAMS PER LITER						
							CENTRAL VALLEY SAN JOAQUIN VALLEY						
	18S/22E-31A01			M									
09/11/75	5701			68	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.04 T	
	18S/22E-32L01			M									
05/27/75	5701			70	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/22E-05C01			M									
08/18/75	5701			68	F		--	--	0.01 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/22E-05C02			M									
09/11/75	5701			70	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/22E-05E01			M									
03/03/75	5701			68	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.00 T	
09/16/75	5701						0.13 T	0.002 T	--	0.00 T	0.000 T	--	
	5701					0.002 T	0.000 T	--	--	--	0.000 T	--	
	18S/22E-05E02			M									
07/02/75	5701			70	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.06 T	
	18S/22E-05H01			M									
05/27/75	5701			69	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.02 T	0.00 T	--	0.03 T	
	18S/22E-06B01			M									
04/01/75	5701			67	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.00 T	
	18S/22E-06K01			M									
03/03/75	5701			69	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.00 T	
05/22/75	5701						0.00 T	0.001 T	--	0.000 T	0.000 T	--	
	5701					0.003 T	0.000 T	--	--	--	0.000 T	--	
	18S/22E-08A01			M									
08/18/75	5701			71	F		--	--	0.01 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.03 T	
	18S/22E-08A01			M									
04/01/75	5701			67	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.00 T	
	18S/22E-17C02			M									
08/18/75	5701			71	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.01 T	
	18S/24E-25L01			M									
10/07/74	5701			67	F		--	--	0.02 T	--	--	--	
	5701		414	7.9		--	--	--	0.00 T	0.00 T	--	0.02 T	
05/29/75	5701			68	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/24E-27K02			M									
04/19/75	5701						--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.03 T	
	18S/24E-35N01			M									
07/03/75	5701			67	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/24E-36C01			M									
04/16/75	5701			66	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.00 T	
	18S/24E-36E01			M									
05/29/75	5701			67	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.01 T	
	18S/24E-36N01			M									
01/17/75	5701			65	F		--	--	0.00 T	--	--	--	
	5701					--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/24E-36Q01			M									
10/07/74	5701			67	F		--	--	0.01 T	--	--	--	
	5701		285	7.9		--	--	--	0.00 T	0.00 T	--	0.04 T	

TABLE B-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/25E-14N01			M								
04/16/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.01 T	
	18S/25E-14N02			M								
10/08/74	5701			66 F		--	--	0.02 T	--	--	--	
	5701		237	7.2	--	--	--	0.10 T	0.00 T	--	0.07 T	
02/04/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
06/06/75	5701					0.07 T	0.001 T	--	0.000 T	0.000 T	--	
	5701				0.002 T	0.000 T	--	--	--	0.000 T	--	
	18S/25E-19N01			M								
04/17/75	5701			66 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.00 T	
	18S/25E-20E01			M								
02/25/75	5701					0.09 T	0.000 T	0.00 T	0.000 T	0.0000 T	--	
	5701				0.0030 T	0.000 T	--	0.00 T	0.00 T	0.0010 T	0.00 T	
	18S/25E-23C01			M								
09/29/75	5701			60 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.12 T	0.02 T	--	0.01 T	
	18S/25E-27N01			M								
09/02/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/25E-27P01			M								
09/02/75	5701			65 F		--	--	0.01 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.04 T	
	18S/25E-28N01			M								
04/16/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.00 T	
	18S/25E-28L01			M								
03/21/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.05 T	
	18S/25E-29H01			M								
05/29/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.03 T	
	18S/25E-29C01			M								
02/04/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/25E-29R01			M								
02/04/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/25E-30F01			M								
03/21/75	5701			66 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.01 T	
	18S/25E-30P01			M								
10/07/74	5701			66 F		--	--	0.01 T	--	--	--	
	5701		398	7.9	--	--	--	0.00 T	0.00 T	--	0.08 T	
09/02/75	5701			66 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.03 T	
	18S/25E-30W02			M								
05/29/75	5701			67 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.03 T	
	18S/25E-31H01			M								
02/04/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
04/17/75	5701					0.09 T	0.000 T	--	--	0.000 T	--	
	5701				0.000 T	0.000 T	--	--	--	--	--	
	18S/25E-31A03			M								
09/02/75	5701			66 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.01 T	
	18S/25E-31E01			M								
09/02/75	5701			66 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	18S/25E-31K01			M								
02/04/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.05 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							
		18S/25E-31R01		M								
03/19/75	57J1					0.06 T	0.001 T	0.00 T	0.000 T	0.000 T	--	
	57J1				0.003 T	0.000 T	--	0.00 T	0.00 T	0.000 T	0.01 T	
		18S/25E-32E01		M								
05/29/75	57J1			65 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.01 T	
		18S/25E-32E02		M								
05/29/75	57J1			65 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.01 T	
		18S/25E-32G01		M								
04/18/75	57J1			66 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.02 T	
09/19/75	57J1					0.10 T	--	--	0.00 T	--	--	
	57J1				0.000 T	0.000 T	--	--	--	0.000 T	--	
		18S/25E-32K01		M								
07/03/75	57J1			66 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.00 T	
		19S/24E-01G01		M								
07/03/75	57J1			65 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.00 T	
		19S/24E-01N01		M								
04/16/75	57J1			64 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.00 T	
		19S/24E-02H01		M								
09/02/75	57J1			67 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.01 T	
		19S/25E-05B01		M								
10/07/74	57J1			65 F		--	--	0.00 T	--	--	--	
	57J1		210	8.5	--	--	--	0.00 T	0.00 T	--	0.01 T	
10/07/74	57J1					0.05 T	0.001 T	0.00 T	0.00 T	0.0005 T	--	
	57J1				0.0000 T	0.000 T	--	--	--	0.000 T	0.03 T	
07/03/75	57J1			66 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.01 T	--	0.06 T	
		19S/25E-06E01		M								
07/03/75	57J1			66 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.01 T	--	0.06 T	
		19S/25E-06M01		M								
07/03/75	57J1			65 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.03 T	
		19S/25E-07A01		M								
04/16/75	57J1			65 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 TT	0.00 T	--	0.04 T	
		19S/25E-19E02		M								
10/07/74	57J1			67 F		--	--	0.00 T	--	--	--	
	57J1		197	8.[illegible]	--	--	--	0.00 T	0.00 T	--	0.01 T	
02/04/75	57J1			65 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.02 T	
		19S/25E-19E03		M								
04/17/75	57J1			65 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.03 T	
		29S/27E-23H01		M								
02/12/75	57J1			66 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.00 T	
		29S/27E-24N01		M								
10/09/74	57J1			63 F		--	--	0.00 T	--	--	--	
	57J1		227	7.3	--	--	--	0.05 T	0.00 T	--	0.04 T	
03/24/75	57J1			62 F		--	--	0.30 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.01 T	
		29S/27E-25D02		M								
05/12/75	57J1			64 F		0.17 T	0.000 T	0.00 T	0.000 T	0.000 T	--	
	57J1				0.000 T	0.000 T	-- T	0.00 T	0.00 T	0.000 T	0.00 T	
		29S/27E-25G01		M								
08/04/75	57J1			65 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.10 T	0.00 T	--	0.04 T	

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

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
					CONSTITUENTS IN MILLIGRAMS PER LITER							
				CENTRAL VALLEY SAN JOAQUIN VALLEY								
		29S/27E-25R01		M								
01/13/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.03 T	
		29S/27E-26J01		M								
07/07/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.04 T	
		29S/27E-35A02		M								
08/04/75	5701			68 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.06 T	
		29S/27E-35E01		M								
03/24/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.04 T	--	0.03 T	
		29S/27E-35G01		M								
08/04/75	5701			67 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.01 T	--	0.06 T	
		29S/27E-36H01		M								
09/09/75	5701			67 F		--	--	0.01 T	--	--	--	
	5701				--	--	--	0.04 T	0.00 T	--	0.00 T	
		29S/27E-36K01		M								
10/18/74	5701			65 F		--	--	0.00 T	--	--	--	
	5701		259	7.5	--	--	--	0.00 T	0.00 T	--	0.02 T	
08/04/75	5701			66 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.00 T	
		29S/27E-36K02		M								
10/18/74	5701			66 F		--	--	0.00 T	--	--	--	
	5701		258	7.4	--	--	--	0.00 T	0.00 T	--	0.00 T	
03/24/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.01 T	
		29S/28E-16E01		M								
08/04/75	5701			66 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.04 T	0.10 T	--	0.05 T	
		29S/28E-16M01		M								
02/12/75	5701			71 F		0.19 T	0.000 T	0.00 T	0.000 T	0.0000 T	--	
	5701				0.0000 T	0.000 T	--	0.00 T	0.04 T	0.0010 T	0.01 T	
02/18/75	5701			70 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.04 T	--	0.02 T	
		29S/28E-16Q01		M								
06/04/75	5701			78 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.02 T	0.07 T	--	0.01 T	
		29S/28E-16R01		M								
07/07/75	5701			78 F		--	--	0.01 T	--	--	--	
	5701				--	--	--	0.02 T	0.09 T	--	0.02 T	
		29S/28E-17R01		M								
06/04/75	5701			70 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.06 T	0.60 T	--	0.03 T	
		29S/28E-19J02		M								
01/13/75	5701			67 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.02 T	--	0.04 T	
		29S/28E-19J03		M								
01/13/75	5701			69 F		--	--	0.01 T	--	--	--	
	5701				--	--	--	0.00 T	0.03 T	--	0.03 T	
		29S/28E-19L01		M								
03/24/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.01 T	--	0.01 T	
		29S/28E-19N02		M								
08/04/75	5701			68 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.04 T	
		29S/28E-19Q01		M								
06/04/75	5701			66 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.01 T	--	0.00 T	
		29S/28E-20A01		M								
02/12/75	5701			73 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.07 T	--	0.02 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							
	29S/28E-20G02			M								
03/24/75	57J1			72 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.10 T	--	0.01 T	
	29S/28E-20H01			M								
05/05/75	57J1			76 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.01 T	--	0.01 T	
	29S/28E-20L01			M								
05/05/75	57J1			72 F		--	--	0.01 T	--	--	--	
	57J1				--	--	--	0.00 T	0.06 T	--	0.08 T	
	29S/28E-21C01			M								
07/07/75	57J1			77 F		--	--	0.01 T	--	--	--	
	57J1				--	--	--	0.08 T	0.12 T	--	0.04 T	
	29S/28E-21D01			M								
07/07/75	57J1			76 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.09 T	--	0.07 T	
	29S/28E-21E01			M								
03/24/75	57J1			76 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.02 T	--	0.01 T	
	29S/28E-21G01			M								
05/05/75	57J1			78 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.01 T	--	0.01 T	
	29S/28E-21H01			M								
01/13/75	57J1			76 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.04 T	--	0.04 T	
	29S/28E-29D01			M								
01/13/75	57J1			70 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.08 T	
	29S/28E-29L01			M								
06/04/75	57J1			70 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.02 T	--	0.02 T	
	29S/28E-29P01			M								
06/04/75	57J1			70 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.02 T	0.00 T	--	0.09 T	
	29S/28E-29J01			M								
06/04/75	57J1			80 F		0.03 T	--	0.00 T	0.000 T	0.000 T	--	
	57J1				0.06 T	0.000 T	--	0.02 T	0.04 T	0.0005 T	0.03 T	
	29S/28E-30A01			M								
09/09/75	57J1			68 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.02 T	
	29S/28E-30F02			M								
06/04/75	57J1			68 F		--	--	0.01 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.02 T	
	29S/28E-30G01			M								
07/07/75	57J1			67 F		--	--	0.01 T	--	--	--	
	57J1				--	--	--	0.02 T	0.00 T	--	0.01 T	
	29S/28E-30H02			M								
07/07/75	57J1			68 F		--	--	0.01 T	--	--	--	
	57J1				--	--	--	0.02 T	0.01 T	--	0.06 T	
	29S/28E-30K02			M								
11/11/74	57J1			68 F		--	--	0.00 T	--	--	--	
	57J1		324	7.8	--	--	--	0.00 T	0.00 T	--	0.02 T	
05/05/75	57J1			66 F		--	--	0.01 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.07 T	
	29S/28E-30Q02			M								
06/04/75	57J1			68 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.04 T	0.00 T	--	0.05 T	
	29S/28E-30Q04			M								
08/04/75	57J1			68 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.08 T	
	29S/28E-31H02			M								
06/04/75	57J1			66 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.02 T	0.00 T	--	0.02 T	

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								
	29S/28E-31B04		M									
06/04/75	5701		66 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.00 T	
	29S/28E-31F02		M									
05/05/75	5701		67 F			0.17 T	0.000 T	0.00 T	0.000 T	0.000 T	--	
	5701				0.000 T	0.000 T	--	0.00 T	0.00 T	0.000 T	0.03 T	
	29S/28E-31G02		M									
01/13/75	5701		67 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.01 T	--	0.04 T	
03/13/75	5701		67 F			0.00 T	0.001 T	0.00 T	0.000 T	0.0000 T	--	
	5701				0.0040 T	0.000 T	--	0.00 T	0.00 T	0.0010 T	0.00 T	
	29S/28E-31J02		M									
01/13/75	5701					0.04 T	0.000 T	--	0.00 T	0.000 T	--	
	5701				0.000 T	0.000 T	--	--	--	0.000 T	--	
01/13/75	5701		68 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	29S/28E-31K02		M									
08/04/75	5701		69 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.05 T	
	29S/28E-31Q03		M									
03/24/75	5701		66 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.01 T	
	29S/28E-32D01		M									
06/04/75	5701		70 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.03 T	0.01 T	--	0.02 T	
	29S/28E-32L01		M									
08/04/75	5701		71 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	29S/28E-32N01		M									
07/07/75	5701		70 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.04 T	
	29S/28E-32R02		M									
08/04/75	5701		71 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.03 T	
	29S/28E-34J01		M									
05/14/75	5701		77 F			--	--	0.02 T	--	--	--	
	5701				--	--	--	0.04 T	0.02 T	--	0.06 T	
	29S/28E-35E03		M									
05/05/75	5701		78 F			--	--	0.01 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.04 T	
05/14/75	5701		79 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	30S/27E-01B02		M									
05/05/75	5701		66 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.03 T	
	30S/27E-01G02		M									
06/04/75	5701		68 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.03 T	0.00 T	--	0.03 T	
	30S/27E-01J01		M									
07/07/75	5701		66 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.01 T	--	0.01 T	
	30S/27E-01K01		M									
05/05/75	5701		67 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	30S/27E-01M01		M									
09/09/75	5701		65			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.05 T	
	30S/27E-02A02		M									
01/13/75	5701		65 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.05 T	
	30S/27E-02F01		M									
08/04/75	5701		67 F			--	--	0.00 T	--	--	--	
	5701				--	--	--	0.02 T	0.00 T	--	0.05 T	

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-02H01			M								
09/09/75	5701			67 F		--	--	0.00 T	--	--	0.05 T	
	5701				--	--	--	0.00 T	0.00 T	--	--	
	30S/27E-02P01			M								
10/09/74	5701			65 F		--	--	0.00 T	--	--	--	
	5701		342	7.2	--	--	--	0.00 T	0.00 T	--	0.06 T	
	30S/27E-11H01			M								
10/09/74	5701			65 F		--	--	0.00 T	--	--	--	
	5701		391	7.2	--	--	--	0.00 T	0.00 T	--	0.06 T	
	30S/27E-11Q02			M								
02/12/75	5701			65 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	30S/27E-11R01			M								
10/09/74	5701			66 F		--	0.002 T	0.00 T	0.000 T	0.0000 T	--	
	5701		494	7.1	0.0040 T	0.000 T	--	0.00 T	0.00 T	--	0.14 T	
	30S/27E-12L02			M								
10/07/74	5701					0.12 T	0.000 T	0.01 T	0.00 T	0.0000 T	--	
	5701				0.0031 T	0.000 T	--	--	--	--	0.04 T	
05/05/75	5701			67 F		--	--	0.01 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.07 T	
	30S/27E-12N02			M								
10/09/74	5701			64 F		--	--	0.00 T	--	--	--	
	5701		495	7.3	--	--	--	0.01 T	0.00 T	--	0.04 T	
	30S/27E-12R01			M								
09/09/75	5701			67 F		--	--	0.01 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.01 T	
	30S/27E-13C01			M								
10/09/74	5701			65 F		--	--	0.00 T	--	--	--	
	5701		399	7.[illegible]	--	--	--	0.00 T	0.00 T	--	0.06 T	
	30S/27E-13H01			M								
02/12/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	30S/27E-13H02			M								
02/18/75	5701			66 F		0.18 T	0.002 T	0.01 T	0.000 T	0.0000 T	--	
	5701				0.0030 T	0.000 T	--	0.00 T	0.00 T	0.0000 T	0.02 T	
	30S/27E-14H02			M								
10/09/74	5701			64 F		--	--	0.00 T	--	--	--	
	5701		262	7.6	--	--	--	0.00 T	0.00 T	--	0.06 T	
02/12/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	30S/27E-23C02			M								
07/07/75	5701			68 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.01 T	
	30S/27E-23C03			M								
05/05/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	30S/27E-23C04			M								
07/07/75	5701			67 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.02 T	
	30S/27E-23D01			M								
03/24/75	5701			64 F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.01 T	
	30S/28E-05H01			M								
02/12/75	5701			70 F		--	--	0.01 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.03 T	
	30S/28E-05C01			M								
09/10/75	5701			67 F		--	--	0.01 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.05 T	
	30S/28E-05F01			M								
01/13/75	5701			66. F		--	--	0.00 T	--	--	--	
	5701				--	--	--	0.00 T	0.00 T	--	0.04 T	
	30S/28E-05F01			M								
02/03/75	5701			68 F		0.2 T	0.002 T	0.01 T	0.000 T	0.0000 T	--	
	5701				0.0040 T	0.000 T	--	0.00 T	0.00 T	0.002 T	0.04 T	

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/28E-05K01		M								
03/24/75	57J1			68 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.01 T	
		30S/28E-05N01		M								
02/12/75	57J1			70 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.04 T	
		30S/28E-06C02		M								
09/10/75	57J1			66 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.06 T	
		30S/28E-06C03		M								
05/05/75	57J1			66 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.04 T	
		30S/28E-06G02		M								
08/04/75	57J1			67 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.05 T	
		30S/28E-06M02		M								
03/24/75	57J1			66 F		0.08 T	0.000 T	0.00 T	0.00 T	0.0000 T	--	
	57J1				0.000 T	.000 T	--	0.00 T	0.01 T	0.000 T	0.00 T	
		30S/28E-07C01		M								
09/09/75	57J1			68 F		--	--	0.01 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.07 T	
		30S/28E-07E01		M								
07/07/75	57J1			68 F		--	--	0.01 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.04 T	
		30S/28E-08H01		M								
10/07/74	57J1					--	0.001 T	0.00 T	0.00 T	0.0000 T	--	
	57J1				0.0119 T	0.000 T	--	--	--	0.000 T	0.06 T	
07/07/75	57J1			69 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.02 T	--	0.04 T	
		30S/28E-08M02		M								
01/13/75	57J1			72 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.08 T	
		30S/28E-17A01		M								
10/09/74	57J1			70 F		--	--	0.00 T	--	--	--	
	57J1		492	7.9	--	--	--	0.00 T	0.00 T	--	0.04 T	
05/05/75	57J1			70 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.02 T	
		30S/28E-18B01		M								
09/09/75	57J1			66 F		--	--	0.01 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.02 T	
		30S/28E-18E01		M								
02/12/75	57J1			67 F		--	--	0.00 T	--	--	--	
	57J1				--	--	--	0.00 T	0.00 T	--	0.09 T	
		09N/26W-29P01		S								
01/06/75	58J3					--	--	--	--	--	--	
	58J3				0.01 T	--	--	0.1 T	0.0 T	--	--	

TABLE E-3

SUPPLEMENTAL MINOR ELEMENT ANALYSES OF GROUND WATER

Abbreviations and Codes used in this table are:

Abbreviations

T	Total Concentration
REM	Remarks

Sampler (SAMP) and Laboratory (LAB) Codes

5701	California Water Service Company

TABLE E-3

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH FC	TEMP PH	ALUMINUM	ANTIMONY BERYLLIUM	BISMUTH COBALT	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
					CONSTITUENTS IN MILLIGRAMS PER LITER							
				CENTRAL VALLEY SAN JOAQUIN VALLEY								
		15S/22E-31A01		M								
09/11/75	5701 5701			68 F	--	-- --	-- --	-- --	0.000 T --	-- 0.32 T	-- --	
		15S/22E-32L01		M								
05/27/75	5701 5701			70 F	--	-- --	-- --	-- --	0.002 T --	-- 0.22 T	-- --	
		16S/22E-05C01		M								
08/18/75	5701 5701			69 F	--	-- --	-- --	-- --	0.004 T --	-- 0.24 T	-- --	
		16S/22E-05C02		M								
09/11/75	5701 5701			70 F	--	-- --	-- --	-- --	0.000 T --	-- 0.20 T	-- --	
		16S/22E-05E01		M								
03/03/75	5701 5701			68 F	--	-- --	-- --	-- --	0.004 T --	-- 0.26 T	-- --	
		16S/22E-05E02		M								
07/02/75	5701 5701			70 F	--	-- --	-- --	-- --	0.000 T --	-- 0.12 T	-- --	
		16S/22E-05M01		M								
05/27/75	5701 5701			69 F	--	-- --	-- --	-- --	0.004 T --	-- 0.32 T	-- --	
		16S/22E-06G01		M								
04/01/75	5701 5701			67 F	--	-- --	-- --	-- --	0.006 T --	-- 0.52 T	-- --	
		16S/22E-06K01		M								
03/03/75	5701 5701			69 F	--	-- --	-- --	-- --	0.002 T --	-- 0.22 T	-- --	
		16S/22E-06M01		M								
08/18/75	5701 5701			71 F	--	-- --	-- --	-- --	0.004 T --	-- 0.30 T	-- --	
		16S/22E-07A01		M								
04/01/75	5701 5701			67 F	--	-- --	-- --	-- --	0.006 T --	-- 0.44 T	-- --	
		16S/22E-07C02		M								
08/18/75	5701 5701			71 F	--	-- --	-- --	-- --	0.002 T --	-- 0.16 T	-- --	
		18S/24E-25L01		M								
10/07/74	5701 5701		418	67 F 7.0	--	-- --	-- --	-- --	0.002 T --	-- 0.44 T	-- --	
05/29/75	5701 5701			68 F	--	-- --	-- --	-- --	0.002 T --	-- 0.36 T	-- --	
		18S/24E-27R02		M								
04/19/75	5701 5701				--	-- --	-- --	-- --	0.004 T --	-- 0.28 T	-- --	
		18S/24E-35A01		M								
07/03/75	5701 5701			67 F	--	-- --	-- --	-- --	0.002 T --	-- 0.24 T	-- --	
		18S/24E-36C01		M								
04/16/75	5701 5701			66 F	--	-- --	-- --	-- --	0.000 T --	-- 0.28 T	-- --	
		18S/24E-36E01		M								
05/29/75	5701 5701			67 F	--	-- --	-- --	-- --	0.002 T --	-- 0.32 T	-- --	
		18S/24E-36N01		M								
01/17/75	5701 5701			65 F	--	-- --	-- --	-- --	0.000 T --	-- 0.34 T	-- --	
		18S/24E-36Q01		M								
10/07/74	5701 5701		285	67 F 7.0	--	-- --	-- --	-- --	0.002 T --	-- 0.36 T	-- --	
		18S/25E-14N01		M								
04/16/75	5701 5701			65 F	--	-- --	-- --	-- --	0.002 T --	-- 0.24 T	-- --	

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	REM
				CENTRAL VALLEY SAN JOAQUIN VALLEY								
	18S/25E-14N02			M								
10/08/74	5701			66 F		--	--	--	0.000 T	--	--	
	5701		237	7.2	--	--	--	--	--	0.20 T	--	
02/04/75	5701			64 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.20 T	--	
	18S/25E-19N01			M								
04/17/75	5701			66 F		--	--	--	0.001 T	--	--	
	5701				--	--	--	--	--	0.16 T	--	
	18S/25E-20E01			M								
02/25/75	5701					--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
	18S/25E-23C01			M								
09/29/75	5701			60 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.14 T	--	
	18S/25E-27N01			M								
09/02/75	5701			65 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.20 T	--	
	18S/25E-27P01			M								
09/02/75	5701			65 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.12 T	--	
	18S/25E-28D01			M								
04/16/75	5701			64 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.22 T	--	
	18S/25E-28L01			M								
03/21/75	5701			64 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
	18S/25E-29B01			M								
05/29/75	5701			64 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.20 T	--	
	18S/25E-29C01			M								
02/04/75	5701			64 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.14 T	--	
	18S/25E-29R01			M								
02/04/75	5701			64 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.24 T	--	
	18S/25E-30F01			M								
03/21/75	5701			66 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.22 T	--	
	18S/25E-30P01			M								
10/07/74	5701			66 F		--	--	--	0.002 T	--	--	
	5701		398	7.0	--	--	--	--	--	0.50 T	--	
09/02/75	5701			66 F		--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.52 T	--	
	18S/25E-30R02			M								
05/29/75	5701			67 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
	18S/25E-31B01			M								
02/04/75	5701			65 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
	18S/25E-31M03			M								
09/02/75	5701			66 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.40 T	--	
	18S/25E-31E01			M								
09/02/75	5701			66 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.30 T	--	
	18S/25E-31K01			M								
02/04/75	5701			65 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.22 T	--	
	18S/25E-31R01			M								
03/19/75	5701					--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
	18S/25E-32E01			M								
05/29/75	5701			65 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.24 T	--	

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH		ALUMINUM	ANTIMONY	BISMUTH	GALLIUM	LITHIUM	NICKEL	TITANIUM	REM
						CONSTITUENTS IN MILLIGRAMS PER LITER							
						BERYLLIUM	COBALT	GERMANIUM	MOLYBDENUM	STRONTIUM	VANADIUM		
						CENTRAL VALLEY SAN JOAQUIN VALLEY							
	18S/25E-32E02			M									
05/29/75	5701			65	F	--	--	--	--	0.000 T	--	--	
	5701					--	--	--	--	--	0.26 T	--	
	18S/25E-32G01			M									
04/18/75	5701			66	F	--	--	--	--	0.001 T	--	--	
	5701					--	--	--	--	--	0.30 T	--	
	18S/25E-32K01			M									
07/03/75	5701			66	F	--	--	--	--	0.003 T	--	--	
	5701					--	--	--	--	--	0.22 T	--	
	19S/24E-01G01			M									
07/03/75	5701			65	F	--	--	--	--	0.004 T	--	--	
	5701					--	--	--	--	--	0.54 T	--	
	19S/24E-01K01			M									
04/16/75	5701			64	F	--	--	--	--	0.004 T	--	--	
	5701					--	--	--	--	--	0.56 T	--	
	19S/24E-02M01			M									
09/02/75	5701			67	F	--	--	--	--	0.000 T	--	--	
	5701					--	--	--	--	--	0.42 T	--	
	19S/25E-05M01			M									
10/07/74	5701			65	F	--	--	--	--	0.000 T	--	--	
	5701		210	8.		--	--	--	--	--	0.24 T	--	
07/03/75	5701			66	F	--	--	--	--	0.00 T	--	--	
	5701					--	--	--	--	--	0.26 T	--	
	19S/25E-06E01			M									
07/03/75	5701			66	F	--	--	--	--	0.000 T	--	--	
	5701					--	--	--	--	--	0.22 T	--	
	19S/25E-06M01			M									
07/03/75	5701			65	F	--	--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.38 T	--	
	19S/25E-07A01			M									
04/16/75	5701			65	F	--	--	--	--	0.001 T	--	--	
	5701					--	--	--	--	--	0.44 T	--	
	19S/25E-19E02			M									
10/07/74	5701			67	F	--	--	--	--	0.000 T	--	--	
	5701		197	8.		--	--	--	--	--	0.36 T	--	
	19S/25E-19E03			M									
04/17/75	5701			65	F	--	--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.42 T	--	
	29S/27E-23H01			M									
02/12/75	5701			66	F	--	--	--	--	0.006 T	--	--	
	5701					--	--	--	--	--	0.22 T	--	
	29S/27E-24N01			M									
10/09/74	5701			63	F	--	--	--	--	0.005 T	--	--	
	5701		227	7.7		--	--	--	--	--	0.20 T	--	
03/24/75	5701			62	F	--	--	--	--	0.006 T	--	--	
	5701					--	--	--	--	--	0.02 T	--	
	29S/27E-25D02			M									
05/12/75	5701			64	F	--	--	--	--	0.000 T	--	--	
	5701					--	--	--	--	--	0.26 T	--	
	29S/27E-25G01			M									
08/04/75	5701			65	F	--	--	--	--	0.004 T	--	--	
	5701					--	--	--	--	--	0.23 T	--	
	29S/27E-25H01			M									
01/13/75	5701			65	F	--	--	--	--	0.004 T	--	--	
	5701					--	--	--	--	--	0.24 T	--	
	29S/27E-26J01			M									
07/07/75	5701			65	F	--	--	--	--	0.004 T	--	--	
	5701					--	--	--	--	--	0.22 T	--	
	29S/27E-35A02			M									
08/04/75	5701			66	F	--	--	--	--	0.006 T	--	--	
	5701					--	--	--	--	--	0.19 T	--	
	29S/27E-35E01			M									
03/24/75	5701			65	F	--	--	--	--	0.008 T	--	--	
	5701					--	--	--	--	--	0.27 T	--	

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DISCH DEPTH	EC	TEMP PH	ALUMINUM	ANTIMONY BERYLLIUM	BISMUTH COBALT	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
					CONSTITUENTS IN MILLIGRAMS PER LITER							
				CENTRAL VALLEY SAN JOAQUIN VALLEY								
		29S/27E-35G01		M								
08/04/75	5701			67 F		--	--	--	0.004 T	--	--	
	5701				--	--	--	--	--	0.19 T	--	
		29S/27E-36H01		M								
09/09/75	5701			67 F		--	--	--	0.018 T	--	--	
	5701				--	--	--	--	--	0.92 T	--	
		29S/27E-36K01		M								
10/18/74	5701			65 F		--	--	--	0.005 T	--	--	
	5701		259	7.5	--	--	--	--	--	0.28 T	--	
08/04/75	5701			69 F		--	--	--	0.011 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
		29S/27E-36K02		M								
10/18/74	5701			66 F		--	--	--	0.008 T	--	--	
	5701		258	7.4	--	--	--	--	--	0.25 T	--	
03/24/75	5701			65 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
		29S/28E-16E01		M								
08/04/75	5701			66 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
		29S/28E-16M01		M								
02/12/75	5701			71 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.44 T	--	
02/18/75	5701			70 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.46 T	--	
		29S/28E-16Q01		M								
06/04/75	5701			78 F		--	--	--	0.004 T	--	--	
	5701				--	--	--	--	--	0.68 T	--	
		29S/28E-16R01		M								
07/07/75	5701			78 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.56 T	--	
		29S/28E-17K01		M								
06/04/75	5701			76 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
		29S/28E-19J02		M								
01/13/75	5701			67 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.22 T	--	
		29S/28E-19J03		M								
01/13/75	5701			69 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.18 T	--	
		29S/28E-19L01		M								
03/24/75	5701			65 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
		29S/28E-19N02		M								
08/04/75	5701			68 F		--	--	--	0.004 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
		29S/28E-19Q01		M								
06/04/75	5701			66 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
		29S/28E-20A01		M								
02/12/75	5701			73 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.34 T	--	
		29S/28E-20G02		M								
03/24/75	5701			72 F		--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.74 T	--	
		29S/28E-20H01		M								
05/05/75	5701			76 F		--	--	--	0.001 T	--	--	
	5701				--	--	--	--	--	0.46 T	--	
		29S/28E-20L01		M								
05/05/75	5701			72 F		--	--	--	0.004 T	--	--	
	5701				--	--	--	--	--	0.50 T	--	
		29S/28E-21C01		M								
07/07/75	5701			77 F		--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.76 T	--	

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 CORALT	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
							CENTRAL VALLEY SAN JOAQUIN VALLEY						
		29S/28E-21D01		M									
07/07/75	5701			76	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.34 T	--	
		29S/28E-21E01		M									
03/24/75	5701			76	F		--	--	--	0.000 T	--	--	
	5701					--	--	--	--	--	0.44 T	--	
		29S/28E-21G01		M									
05/05/75	5701			78	F		--	--	--	0.004 T	--	--	
	5701					--	--	--	--	--	0.38 T	--	
		29S/28E-21M01		M									
01/13/75	5701			76	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.34 T	--	
		29S/28E-29D01		M									
01/13/75	5701			70	F		--	--	--	0.000 T	--	--	
	5701					--	--	--	--	--	0.30 T	--	
		29S/28E-29L01		M									
06/04/75	5701			70	F		--	--	--	0.004 T	--	--	
	5701					--	--	--	--	--	0.34 T	--	
		29S/28E-29P01		M									
06/04/75	5701			70	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.28 T	--	
		29S/28E-29Q01		M									
06/04/75	5701			80	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.22 T	--	
		29S/28E-30A01		M									
09/09/75	5701			68	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.22 T	--	
		29S/28E-30F02		M									
06/04/75	5701			66	F		--	--	--	0.008 T	--	--	
	5701					--	--	--	--	--	0.36 T	--	
		29S/28E-30G01		M									
07/07/75	5701			67	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.34 T	--	
		29S/28E-30H02		M									
07/07/75	5701			68	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.28 T	--	
		29S/28E-30K02		M									
11/11/74	5701			68	F		--	--	--	0.002 T	--	--	
	5701		324	7.6		--	--	--	--	--	0.36 T	--	
05/05/75	5701			66	F		--	--	--	0.006 T	--	--	
	5701					--	--	--	--	--	0.32 T	--	
		29S/28E-30Q02		M									
06/04/75	5701			68	F		--	--	--	0.010 T	--	--	
	5701					--	--	--	--	--	0.26 T	--	
		29S/28E-30Q04		M									
08/04/75	5701			68	F		--	--	--	0.009 T	--	--	
	5701					--	--	--	--	--	0.29 T	--	
		29S/28E-31H02		M									
06/04/75	5701			66	F		--	--	--	0.008 T	--	--	
	5701					--	--	--	--	--	0.32 T	--	
		29S/28E-31H04		M									
06/04/75	5701			66	F		--	--	--	0.004 T	--	--	
	5701					--	--	--	--	--	0.40 T	--	
		29S/28E-31F02		M									
05/05/75	5701			67	F		--	--	--	0.014 T	--	--	
	5701					--	--	--	--	--	0.42 T	--	
		29S/28E-31G02		M									
01/13/75	5701			67	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.20 T	--	
03/13/75	5701			67	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.24 T	--	
		29S/28E-31J02		M									
01/13/75	5701			68	F		--	--	--	0.002 T	--	--	
	5701					--	--	--	--	--	0.26 T	--	

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	REM
							CENTRAL VALLEY SAN JOAQUIN VALLEY						
		29S/28E-31K02		M									
08/04/75	5701			69	F		--	--	--	0.013 T	--	--	
	5701					--	--	--	--	--	0.27 T	--	
		29S/28E-31Q03		M									
03/24/75	5701			68	F		--	--	--	0.012 T	--	--	
	5701					--	--	--	--	--	0.40 T	--	
		29S/28E-32D01		M									
06/04/75	5701			70	F		--	--	--	0.006 T	--	--	
	5701					--	--	--	--	--	1.44 T	--	
		29S/28E-32L01		M									
08/04/75	5701			71	F		--	--	--	0.007 T	--	--	
	5701					--	--	--	--	--	1.45 T	--	
		29S/28E-32N01		M									
07/07/75	5701			70	F		--	--	--	0.008 T	--	--	
	5701					--	--	--	--	--	0.62 T	--	
		29S/28E-32R02		M									
08/04/75	5701			71	F		--	--	--	0.010 T	--	--	
	5701					--	--	--	--	--	0.93 T	--	
		29S/28E-34J01		M									
05/14/75	5701			77	F		--	--	--	0.018 T	--	--	
	5701					--	--	--	--	--	2.00 T	--	
		29S/28E-35E03		M									
05/05/75	5701			78	F		--	--	--	0.014 T	--	--	
	5701					--	--	--	--	--	0.60 T	--	
05/14/75	5701			79	F		--	--	--	0.008 T	--	--	
	5701					--	--	--	--	--	0.82 T	--	
		30S/27E-01R02		M									
05/05/75	5701			66	F		--	--	--	0.006 T	--	--	
	5701					--	--	--	--	--	0.30 T	--	
		30S/27E-01G02		M									
06/04/75	5701			68	F		--	--	--	0.022 T	--	--	
	5701					--	--	--	--	--	0.68 T	--	
		30S/27E-01J01		M									
07/07/75	5701			66	F		--	--	--	0.010 T	--	--	
	5701					--	--	--	--	--	0.36 T	--	
		30S/27E-01K01		M									
05/05/75	5701			67	F		--	--	--	0.016 T	--	--	
	5701					--	--	--	--	--	0.46 T	--	
		30S/27E-01M01		M									
09/09/75	5701			65	F		--	--	--	0.014 T	--	--	
	5701					--	--	--	--	--	0.36 T	--	
		30S/27E-02A02		M									
01/13/75	5701			65	F		--	--	--	0.004 T	--	--	
	5701					--	--	--	--	--	0.30 T	--	
		30S/27E-02F01		M									
08/04/75	5701			67	F		--	--	--	0.008 T	--	--	
	5701					--	--	--	--	--	0.30 T	--	
		30S/27E-02H01		M									
09/09/75	5701			67	F		--	--	--	0.006 T	--	--	
	5701					--	--	--	--	--	0.38 T	--	
		30S/27E-02P01		M									
10/09/74	5701			65	F		--	--	--	0.008 T	--	--	
	5701		342	7.2		--	--	--	--	--	0.34 T	--	
		30S/27E-11B01		M									
10/09/74	5701			65	F		--	--	--	0.012 T	--	--	
	5701		391	7.2		--	--	--	--	--	0.38 T	--	
		30S/27E-11D02		M									
02/12/75	5701			65	F		--	--	--	0.008 T	--	--	
	5701					--	--	--	--	--	0.24 T	--	
		30S/27E-11R01		M									
10/09/74	5701			66	F		--	--	--	0.014 T	--	--	
	5701		454	7.1		--	--	--	--	--	0.45 T	--	

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

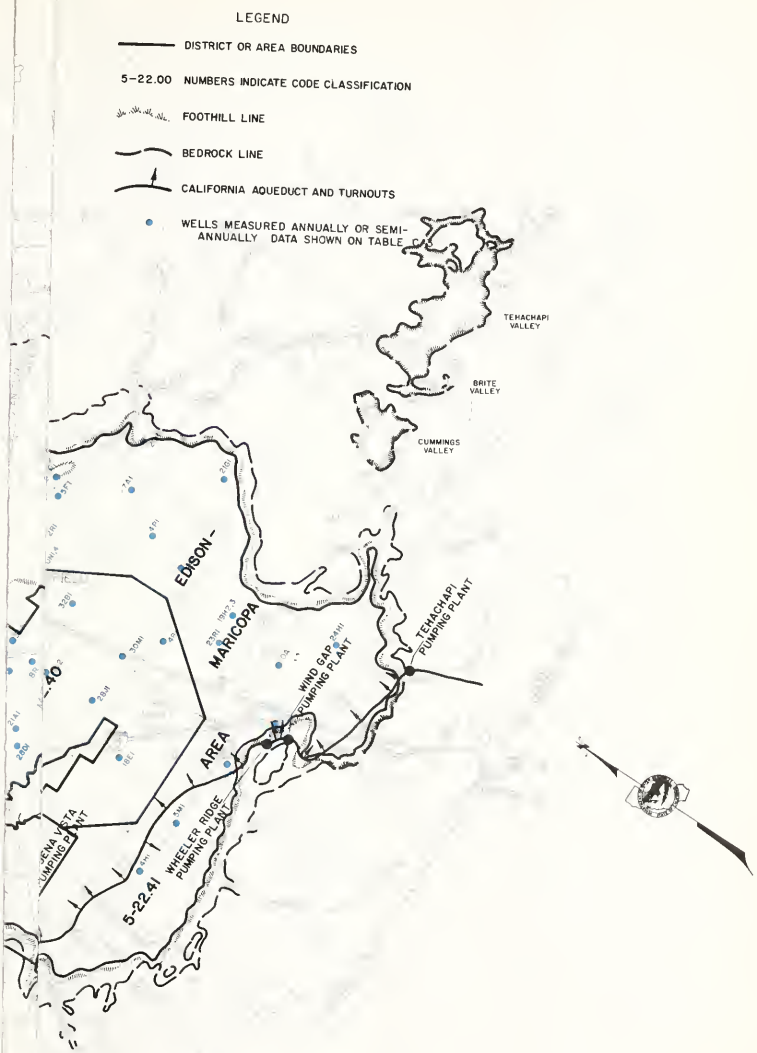
CONSTITUENTS IN MILLIGRAMS PER LITER

DATE TIME	SAMP LAB	DISCH DEPTH	FC	TEMP PH	ALUMINUM	ANTIMONY BERYLLIUM	BISMUTH CORALT	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
				CENTRAL VALLEY SAN JOAQUIN VALLEY								
	30S/27E-12L02			M								
05/05/75	5701			67 F		--	--	--	0.024 T	--	--	
	5701				--	--	--	--	--	0.52 T	--	
	30S/27E-12N02			M								
10/09/74	5701			64 F		--	--	--	0.016 T	--	--	
	5701	405		7.3	--	--	--	--	--	0.44 T	--	
	30S/27E-12R01			M								
09/09/75	5701			67 F		--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.24 T	--	
	30S/27E-13C01			M								
10/09/74	5701			65 F		--	--	--	0.015 T	--	--	
	5701	399		7.[illegible]	--	--	--	--	--	0.38 T	--	
	30S/27E-13H01			M								
02/12/75	5701			64 F		--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
	30S/27E-13H02			M								
02/18/75	5701			66 F		--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
	30S/27E-14H02			M								
10/09/74	5701			64 F		--	--	--	0.010 T	--	--	
	5701	262		7.[illegible]	--	--	--	--	--	0.26 T	--	
02/12/75	5701			64 F		--	--	--	0.008 T	--	--	
	5701				--	--	--	--	--	0.24 T	--	
	30S/27E-23C02			M								
07/07/75	5701			68 F		--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.34 T	--	
	30S/27E-23C03			M								
05/05/75	5701			64 F		--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.36 T	--	
	30S/27E-23C04			M								
07/07/75	5701			67 F		--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.36 T	--	
	30S/27E-23D01			M								
03/24/75	5701			64 F		--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.22 T	--	
	30S/28E-05K01			M								
02/12/75	5701			70 F		--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.54 T	--	
	30S/28E-05C01			M								
09/10/75	5701			67 F		--	--	--	0.018 T	--	--	
	5701				--	--	--	--	--	0.62 T	--	
	30S/28E-05E01			M								
01/13/75	5701			66 F		--	--	--	0.008 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
	30S/28E-05F01			M								
02/03/75	5701			68 F		--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.40 T	--	
	30S/28E-05K01			M								
03/24/75	5701			68 F		--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.38 T	--	
	30S/28E-06C02			M								
09/10/75	5701			66 F		--	--	--	0.013 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
	30S/28E-06C03			M								
05/05/75	5701			68 F		--	--	--	0.016 T	--	--	
	5701				--	--	--	--	--	0.40 T	--	
	30S/28E-06G02			M								
08/04/75	5701			67 F		--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
	30S/28E-06M02			M								
03/24/75	5701			66 F		--	--	--	0.006 T	--	--	
	5701				--	--	--	--	--	0.32 T	--	

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	REM
						CENTRAL VALLEY SAN JOAQUIN VALLEY							
		305/28E-07C01			M								
09/09/75	5701			68	F		--	--	--	0.018 T	--	--	
	5701					--	--	--	--	--	0.42 T	--	
		305/28E-07E01			M								
07/07/75	5701			68	F		--	--	--	0.016 T	--	--	
	5701					--	--	--	--	--	0.36 T	--	
		305/28E-08B01			M								
07/07/75	5701			69	F		--	--	--	0.010 T	--	--	
	5701					--	--	--	--	--	0.46 T	--	
		305/28E-08H02			M								
01/13/75	5701			72	F		--	--	--	0.008 T	--	--	
0001	5701					--	--	--	--	--	0.26 T	--	
		305/26E-17A01			M								
10/09/74	5701			70	F		--	--	--	0.016 T	--	--	
	5701		492	7.4		--	--	--	--	--	0.54 T	--	
05/05/75	5701			70	F		--	--	--	0.020 T	--	--	
	5701					--	--	--	--	--	0.60 T	--	
		305/26E-18B01			M								
09/09/75	5701			66	F		--	--	--	0.018 T	--	--	
	5701					--	--	--	--	--	0.41 T	--	
		305/28E-18E01			M								
02/12/75	5701			67	F		--	--	--	0.014 T	--	--	
	5701					--	--	--	--	--	0.42 T	--	



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THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

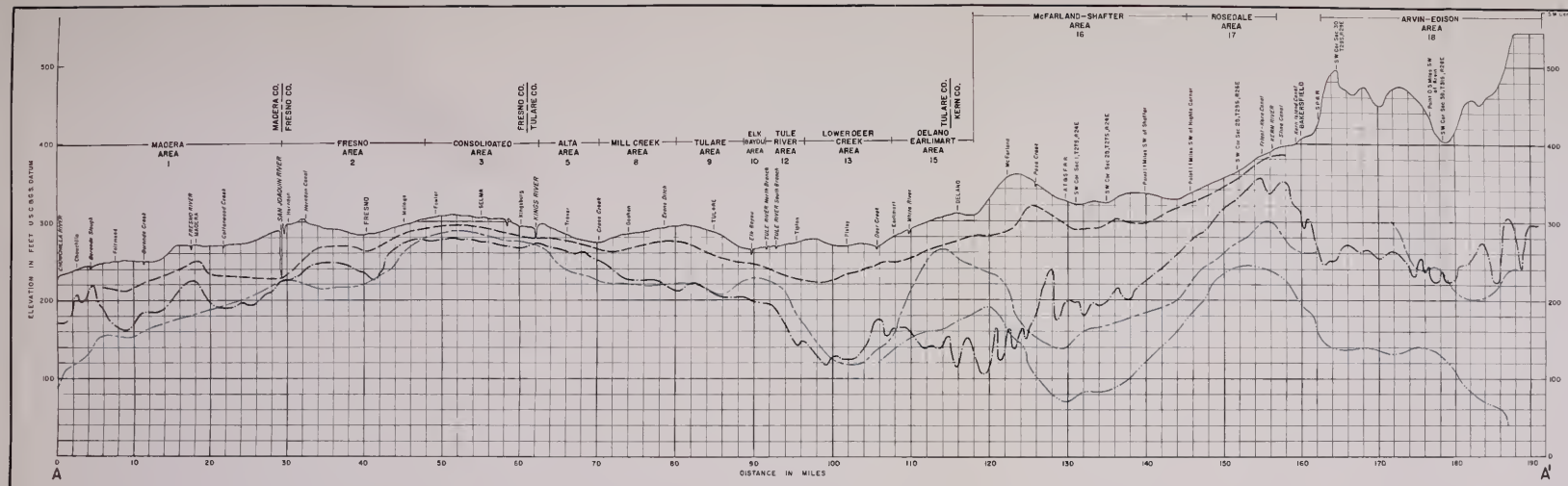
HYDROLOGIC DATA 1975

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 1975
GROUND WATER AREAS AND SELECTED OBSERVATION WELLS
MADERA I.D.
5-22.03
FRESNO I.D.
5-22.16
CONSOLIDATED I.D.
5-22.18
ALTA I.D.
5-22.19
KAWEAH DELTA W.C.D.
5-22.24
TULARE I.D.
5-22.25
LINDMORE I.D.
5-22.28
LOWER TULE RIVER I.D.
5-22.30
POSEY I.D.
5-22.33
ALPAUGH-ALLENSWORTH AREA
5-22.34
SOUTHERN SAN JOAQUIN M.U.D.
5-22.36
NORTH KERN W.S.D.
5-22.37
SHAFTER-WASCO I.D.
5-22.38
KERN RIVER DELTA AREA
5-22.40
SEMITROPIC W.S.D.
5-22.42
LOST HILLS AREA
5-22.43
TULARE LAKE-CORCORAN I.D.
5-22.46
LOWER KINGS RIVER AREA
5-22.20
HURON AREA
5-22.47
FRESNO-SLOUGH AREA
5-22.9
WILSON-CHOWCHILLA-MADERA AREA
5-22.4
CHOWCHILLA W.C.D.
5-22.5
MERCED BOTTOMS
5-22.54
MERCED I.D.
5-22.56
TURLOCK I.D.
5-22.6
MODESTO I.D.
5-22.07
OAKDALE I.D.
5-22.08
SAN LUIS CANAL I.D.
5-22.09
PIXLEY P.U.D.
5-22.18
MENDOTA-DELTA AREA
5-22.17
MENDOTA-MANTTROCK AREA
5-22.44
DELANO-EARLIMART I.D.
5-22.26
ARVIN-EDISON M.W.D.
5-22.41

ON
180
33



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 1975, UNCONFINED AQUIFER
- GROUND WATER LEVEL SPRING 1975, PRESSURE SURFACE
- GROUND WATER LEVEL PROFILE SECTION

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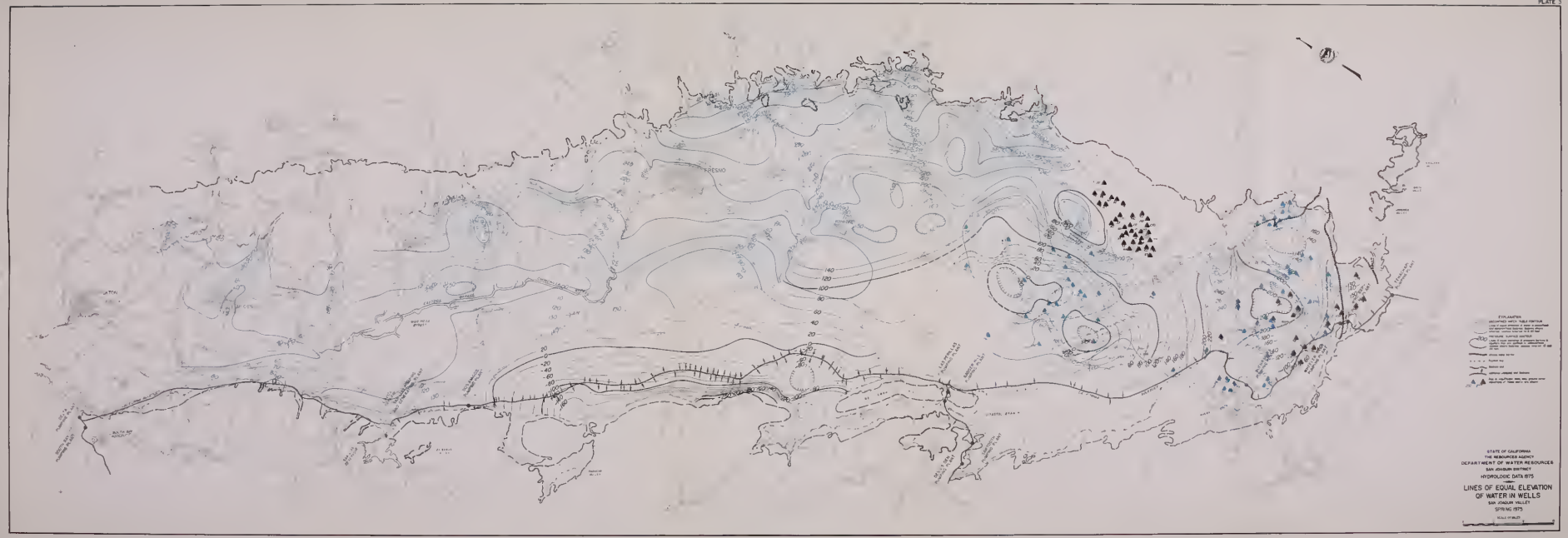
HYDROLOGIC DATA 1975

MAP OF SELECTED GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951 & 1975

SCALE OF MILES

6 3 0 6 12 18


FRESNO
140
120
100
80
60
40
20
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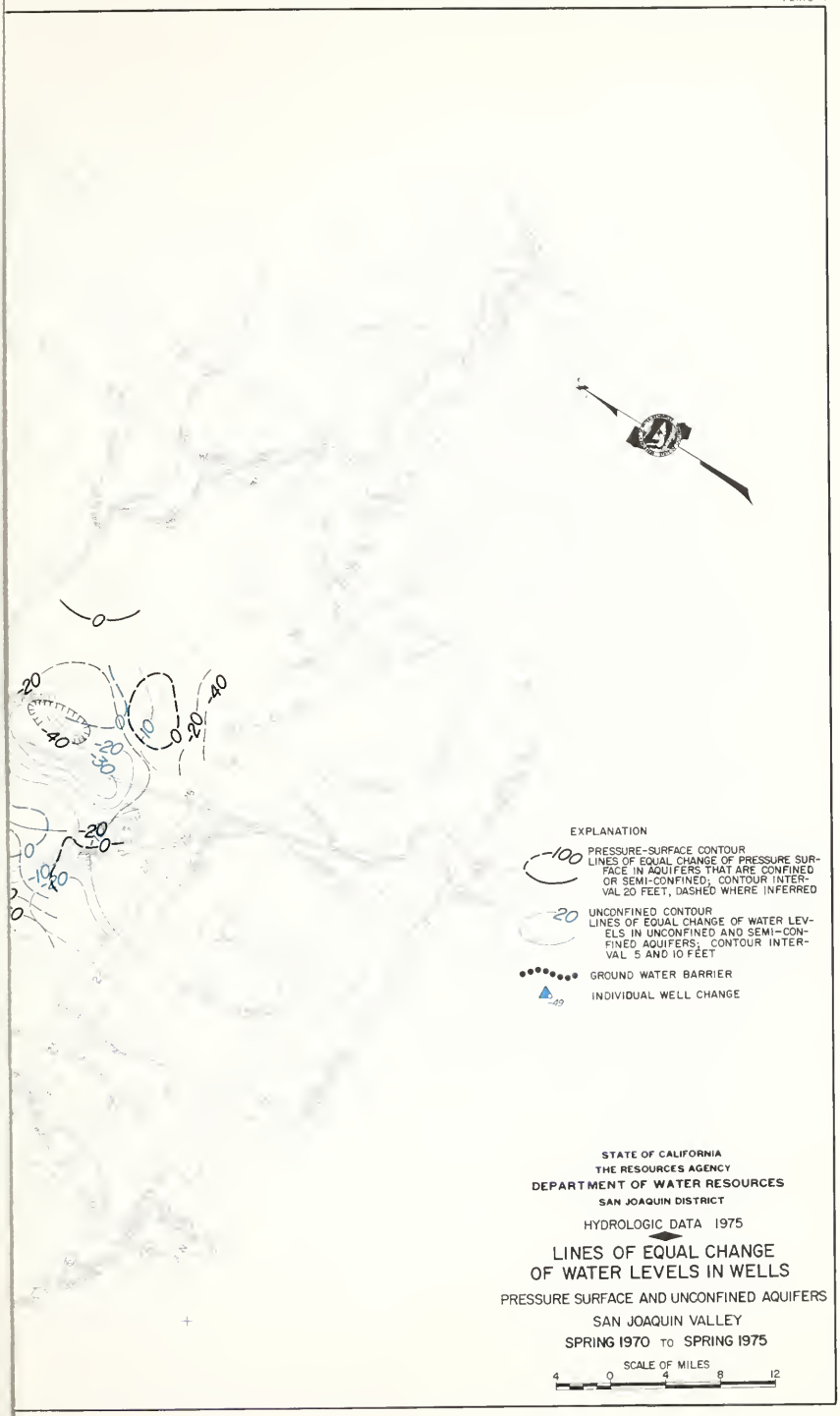
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1975
LINES OF EQUAL ELEVATION
OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1975


EXPLANATION
-100 PRESSURE-SURFACE CONTOUR
LINES OF EQUAL CHANGE OF PRESSURE SURFACE IN AQUIFERS THAT ARE CONFINED OR SEMI-CONFINED; CONTOUR INTERVAL 20 FEET, DASHED WHERE INFERRED
-20 UNCONFINED CONTOUR
LINES OF EQUAL CHANGE OF WATER LEVELS IN UNCONFINED AND SEMI-CONFINED AQUIFERS; CONTOUR INTERVAL 5 AND 10 FEET
GROUND WATER BARRIER
-49 INDIVIDUAL WELL CHANGE
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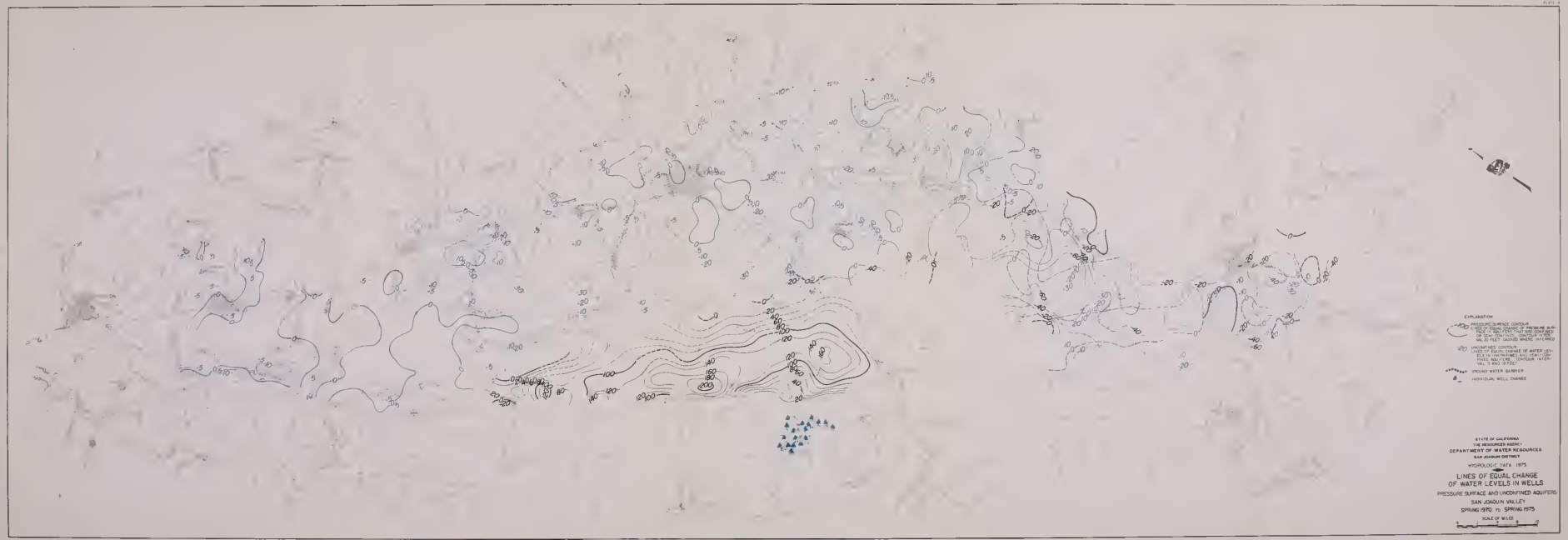
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1975
LINES OF EQUAL CHANGE
OF WATER LEVELS IN WELLS
PRESSURE SURFACE AND UNCONFINED AQUIFERS
SAN JOAQUIN VALLEY
SPRING 1970 TO SPRING 1975
SCALE OF MILES
4 0 4 8 12


EXPLANATION
PRESSURE SURFACE CONTOUR
LINES OF EQUAL CHANGE OF PRESSURE SURFACE IN AQUIFERS THAT ARE CONFINED OR SEMI-CONFINED. CONTOUR INTERVAL 20 FEET (ASHES WHERE INFERRED)
UNCONFINED CONTOUR
LINES OF EQUAL CHANGE OF WATER LEVELS IN UNCONFINED AND SEMI-CONFINED AQUIFERS. CONTOUR INTERVAL 5 AND 10 FEET
GROUND WATER BARRIER
INDIVIDUAL WELL CHANGE
STATE OF CALIFORNIA
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SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1975
LINES OF EQUAL CHANGE
OF WATER LEVELS IN WELLS
PRESSURE SURFACE AND UNCONFINED AQUIFERS
SAN JOAQUIN VALLEY
SPRING 1970 TO SPRING 1975
SCALE OF MILES

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