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BULLETIN No. 130-68

HYDROLOGIC DATA: 1968

Volume IV: SAN JOAQUIN VALLEY

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METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre-foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.699	Cubic meters per minute
1 part per million (ppm)	Milligram per liter (mg/l)	
1 part per billion (ppb)	Microgram per liter (ug/l)	
1 part per trillion (ppt)	Nanogram per liter (ng/l)	
1 equivalent per million (epm)	Milliequivalent per liter (me/l)	
Degrees Fahrenheit (°F)	Degrees Centigrade = (°F-32°)5/9	

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ACKNOWLEDGMENTS

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

U. S. Weather Bureau

U. S. Bureau of Reclamation

U. S. Army Corps of Engineers

U. S. Geological Survey

State Department of Public Health

City and County of San Francisco

City of Modesto

Kern County Water Agency

Kern County Land 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

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 1967-68 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 1968; profile of ground water levels; cooperative study areas; ground water level changes; and well locations.

APPENDIX A

CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the San Joaquin Valley from July 1, 1967 to September 30, 1968. Storage gage precipitation data are annual values. Thirty-two cooperating agencies and 93 local observers supplied the data for the 352 stations reported. Detailed daily and hourly data for some stations, not published here, are available in the files of the Department of Water Resources.

To insure accuracy, stations are inspected annually or semiannually to see that the equipment is properly maintained and that observations generally are taken in accordance with U. S. Weather Bureau standards.

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

HYDROGRAPHIC AREA B

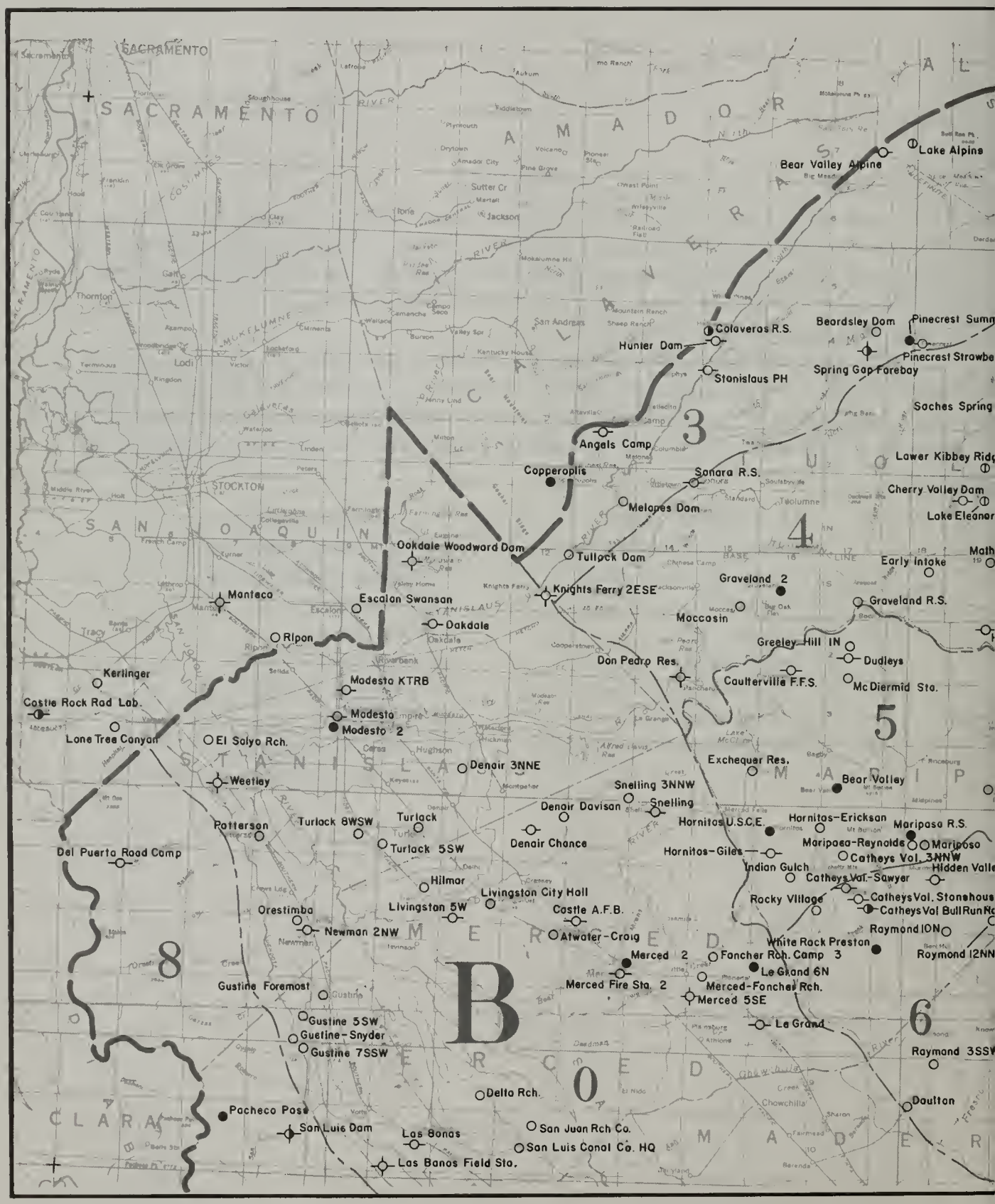
SAN JOAQUIN RIVER BASIN

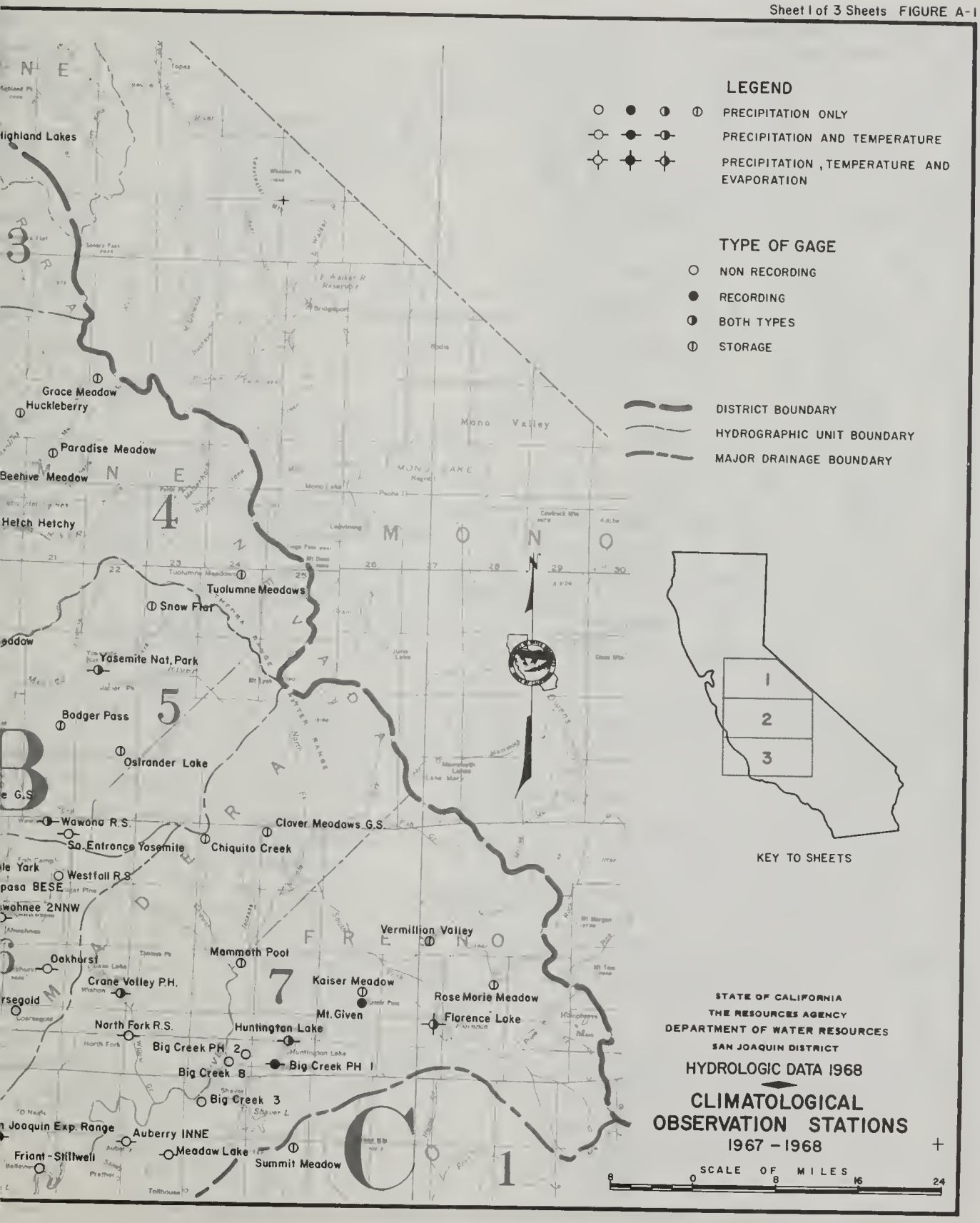
B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

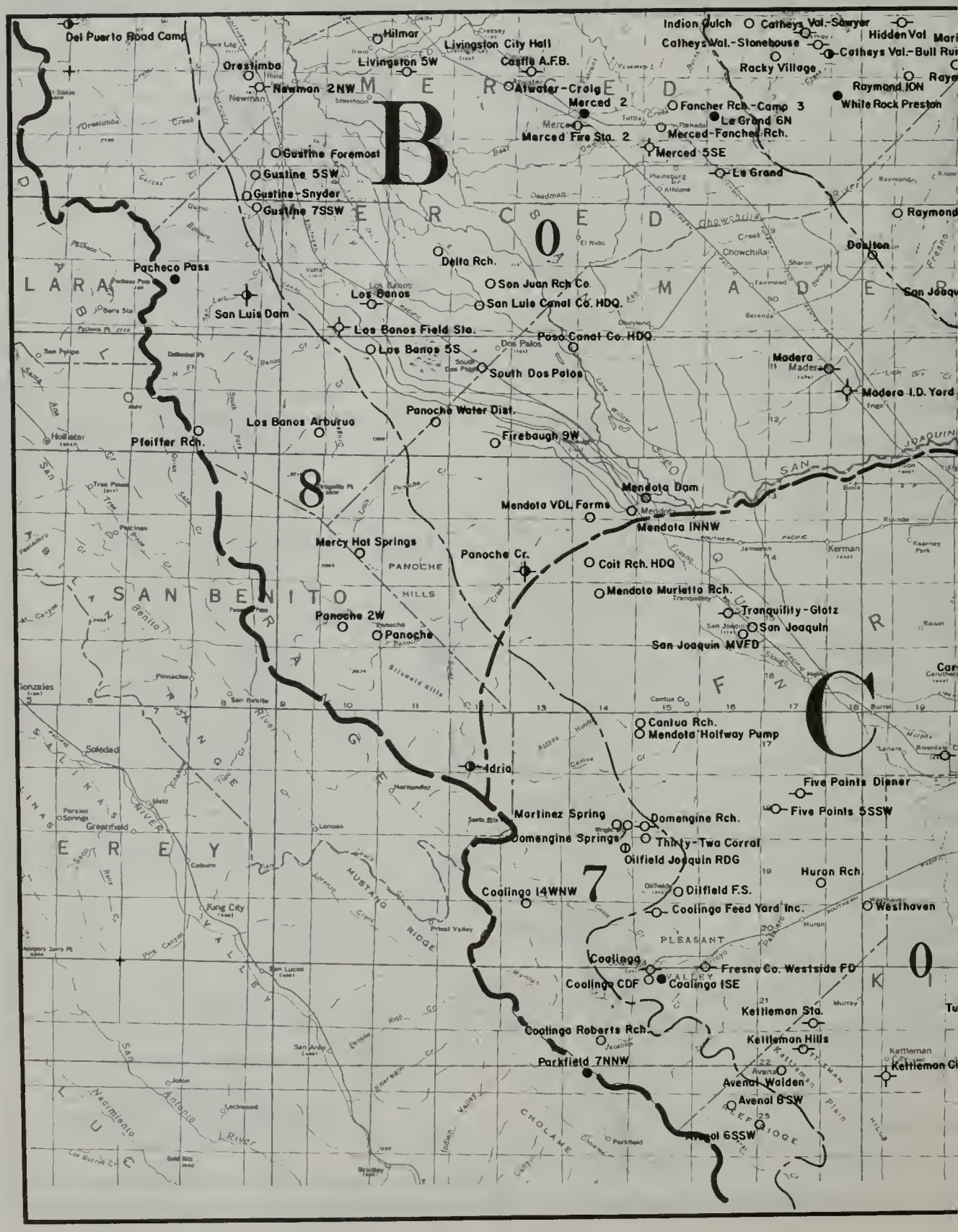
HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

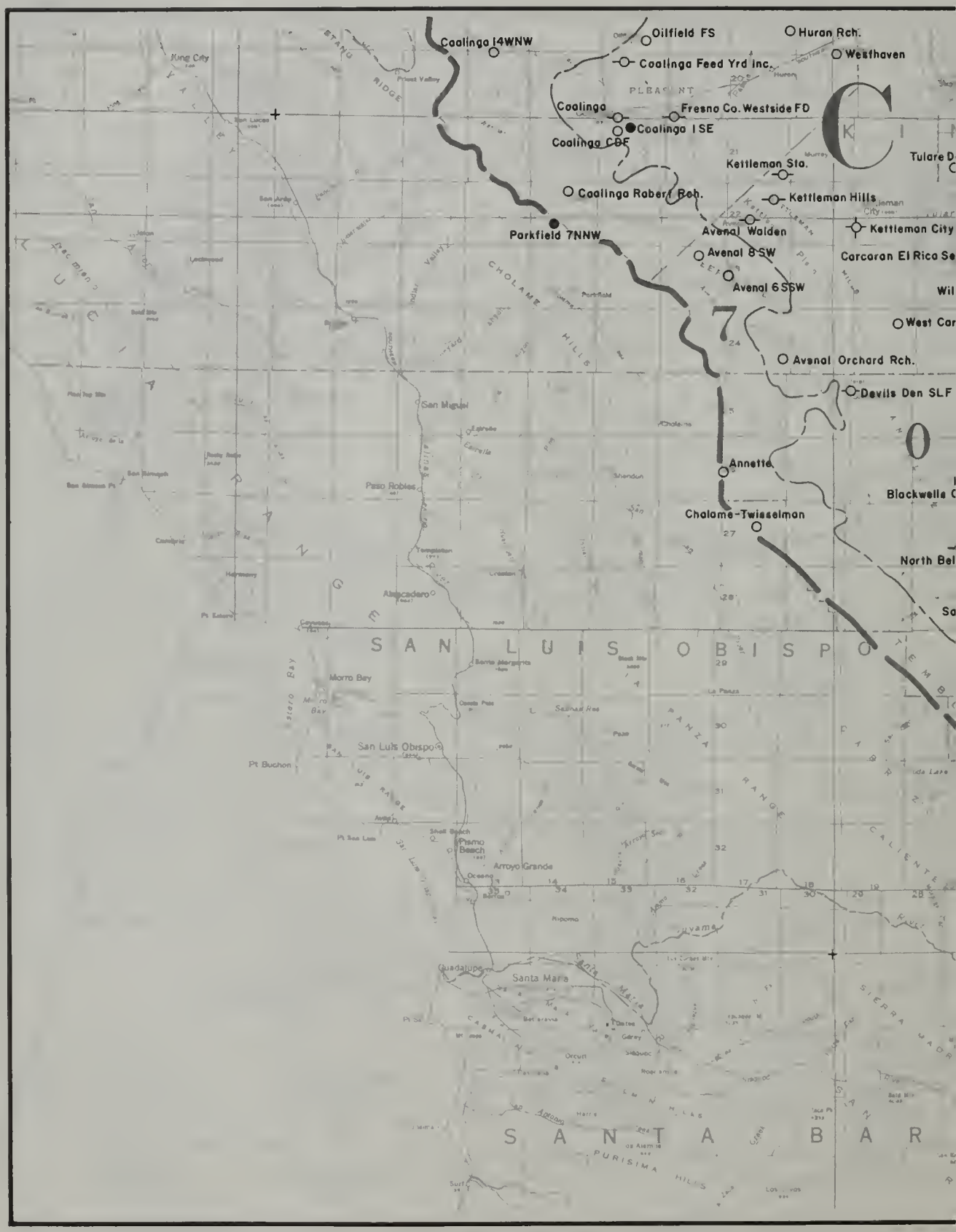
C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side


SACRAMENTO
SACRAMENTO
AMADOR
Lake Alpine
Bear Valley Alpine
Sutter Cr
Jackson
Thornton
Lodi
Cotoveros R.S.
Hunter Dam
Beardsley Dom
Pinecrest Summ
Pinecrest Strowbe
Spring Gap Forebay
Stanislaus PH
Soches Spring
Angels Camp
3
Lower Kibbey Ridg
Copperoplis
Sonora R.S.
Cherry Valley Dam
Lake Eleanor
Melones Dom
STOCKTON
SAN JOAQUIN
4
Oakdale Woodward Dam
Tullock Dam
Early Intake
Graveland 2
Knights Ferry 2ESE
Graveland R.S.
Manteca
Escalon Swansan
Moccasin
Oakdale
Ripon
Greeley Hill IN
Dudleys
Don Pedro Res.
Kerlinger
Modesto KTRB
Caulterville F.F.S.
McDiermid Sta.
Castle Rock Rad Lab.
Modesto
Modesto 2
5
Lone Tree Canyon
El Solyo Rch.
Denair 3NNE
Exchequer Res.
Weetley
Snelling 3NNW
Bear Valley
Denair Davison
Snelling
Hornitos U.S.C.E.
Hornitos-Ericksen
Mariposa R.S.
Patterson
Turlock 8WSW
Turlock
Denair Chance
Mariposa-Reynolds
Mariposo
Del Puerto Road Camp
Turlock 5SW
Hornitos-Giles
Catheys Vol. 3NNW
Indian Gulch
Hidden Valle
Hilmar
Catheys Vol.-Sawyer
Livingston City Hall
Rocky Village
Catheys Vol. Stonehous
Orestimba
Livingston 5W
Castle A.F.B.
Catheys Vol Bull Run Ro
Newman 2NW
Atwater-Craig
Raymond 10N
White Rock Preston
8
Merced 2
Fancher Rch. Camp 3
Raymond 12NN
Le Grand 6N
Gustine Foremost
Merced Fire Sta. 2
Merced-Fancher Rch.
Merced 5SE
B
Gustine 5SW
Le Grand
6
Gustine-Snyder
Gustine 7SSW
Raymond 3SSW
Delta Rch.
Pacheco Pass
Chowchilla
Daulton
San Luis Dam
Las Banos
San Juan Rch Co.
San Luis Canal Co. HQ
Las Banos Field Sta.


LEGEND
PRECIPITATION ONLY
PRECIPITATION AND TEMPERATURE
PRECIPITATION , TEMPERATURE AND EVAPORATION
TYPE OF GAGE
NON RECORDING
RECORDING
BOTH TYPES
STORAGE
DISTRICT BOUNDARY
HYDROGRAPHIC UNIT BOUNDARY
MAJOR DRAINAGE BOUNDARY
KEY TO SHEETS
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1968
CLIMATOLOGICAL OBSERVATION STATIONS
1967 - 1968
SCALE OF MILES
Highland Lakes
Grace Meadow
Huckleberry
Paradise Meadow
Beehive Meadow
Hetch Hetchy
Tuolumne Meadows
Snow Flat
Yosemite Nat. Park
Badger Pass
Ostrander Lake
Wawona R.S.
So. Entrance Yosemite
Clover Meadows G.S.
Chiquito Creek
Westfall R.S.
Oakhurst
Crane Valley P.H.
Mammoth Pool
Vermillion Valley
Kaiser Meadow
Rose Marie Meadow
Mt. Given
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek PH. 2
Big Creek PH 1
Big Creek 8
Big Creek 3
Auberry INNE
Meadow Lake
Summit Meadow
Friant-Stillwell
Mono Valley
MONO LAKE


Del Puerto Road Camp
Hilmar
Livingston City Hall
Livingston 5W
Castle A.F.B.
Orestimba
Newman 2NW
Atwater-Craig
Merced 2
Merced Fire Sta. 2
Merced 5SE
Le Grand
Le Grand 6N
Fancher Rch.-Camp 3
Merced-Fancher Rch.
Indian Gulch
Catheys Val.-Sawyer
Catheys Val.-Stonehouse
Catheys Val.-Bull Run
Hidden Val
Racky Village
Raymond 10N
White Rock Preston
Gustine Foremost
Gustine 5SW
Gustine-Snyder
Gustine 7SSW
Raymond
Chowchilla
Dalton
Pacheco Pass
San Luis Dam
Delta Rch.
San Juan Rch Co.
San Luis Canal Co. HDQ.
Los Banos
Los Banos Field Sta.
Los Banos 5S
Poso Canal Co. HDQ.
South Dos Palos
Madera
Madera I.D. Yard
Los Banos Arburua
Panoche Water Dist.
Firebaugh 9W
Pfeiffer Rch.
Mendota Dam
Mendota VDL Farms
Mendota 1NNW
Mercy Hot Springs
Panoche Cr.
Coit Rch. HDQ
Mendota Murietta Rch.
Tranquility-Glotz
San Joaquin
San Joaquin MVFD
Panoche 2W
Panoche
Cantua Rch.
Mendota Halfway Pump
Idria
Five Points Dinner
Five Points 5SSW
Martinez Spring
Domengine Rch.
Domengine Springs
Thirty-Two Corral
Oilfield Joaquin RDG
Huron Rch
Coalinga 14WNW
Oilfield F.S.
Coalinga Feed Yard Inc.
Westhaven
Coalinga
Fresno Co. Westside FD
Coalinga CDF
Coalinga ISE
Kettleman Sta.
Kettleman Hills
Coalinga Roberts Rch.
Parkfield 7NNW
Avenal Walden
Avenal 8SW
Avenal 6SSW
Kettleman Cl
MERCED
MADERA
FRESNO
KINGS
SAN BENITO
MONTEREY
SAN LUIS OBISPO
PANOCHE HILLS
PLEASANT VALLEY
MUSTANG RIDGE
CHOLAME
KETTLEMAN HILLS
Greenfield
King City
Soledad
Gonzales
Hollister
Los Banos
Madera
Kerman
Huron
Coalinga
Parkfield
Avenal
San Joaquin
Chowchilla
Dos Palos
Firebaugh
Mendota
Tranquillity
Caruthers
Lanare
Riverdale
Burrel
Raisin
Kettleman
Lemoore
Lucerne
Lockwood
Jolon
San Lucas
San Ardo
Bradley
Pinnacles
Paicines
Tres Pinos
Hollister
Salinas River
Nacimiento River
San Antonio River
Los Burros Cr.
Panoche Cr.
Cantua Cr.
Aurora Hondo
Mustang Ridge
Cholame Canyon
Indian Valley
Kettleman Plain
Kettleman Hills
Avenal Ridge
Pleasant Valley
Huron
Murray
Tu

Vermillion Valley
Mammoth Pool
Kaiser Meadow
Mt. Given
Rose Marie Meadow
Crane Valley P.H.
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek PH 2
Big Creek PH 1
Big Creek PH 8
Big Creek PH 3
Auberry INNE
Meadow Lake
Summit Meadow
Friant-Stillwell
Bretz Mill
Soap Root Saddle
Upper Woodchuck Meadow
Dusy Bench
Wishon Lake
Hoslett Basin
Rattlesnake Creek
Blasingame
Lower Big Creek
Balch PH
State Lakes
Academy
Trimmer R.S.
Pine Flat Dam
Barton Flat
Fresno WB AP
Grant Grove
Mitchell Meadow
Vidette Meadow
Sanger R.S.
Squaw Valley Fr.
Pinehurst
Whitaker Forest
Moraine Creek
Beartrap Meadow
Miramonte Honor Camp
Orange Cove
Badger
Pear Lake
Reedley MVFD
Giant Forest
Crabtree Meadow
Dinuba Alta I.D.
Chagoapa
Ash Mountain
Kaweah PH 3
Atwell
Three Rivers PH 2
Three Rivers PH 1
Mineral King
Ivanhoe I.D.
Terminus Dam
Lemon Cove
Three Rivers 6SE
Tunnel R.S.
Hanford
Hanford Well 21
Visalia
Visalia 4E
Exeter Fauver
Hackett Meadows
Wet Meadow
Rector
Milo 5NE
Mountain Home 2
Monache Meadows
Tulare
Springville Tule HDW
Lindsay
Hassack Rodio
Springville 7ENE
Tule River Intake
Camp Nelson
Springville R.S.
Corcoran I.D.
Porterville 3W
Tule River PH
Rogers Camp
Quaking Aspen
Stevenson Dist. Sec 33
Porterville
Success Dam
Corcoran El Rico I
Eagle Creek
Angiola
Johnsondale
Raund Meadow
Doublebunk Meadow
Homeland Dist. Sec 9
South Lake Farms HDQ
Kern R 3 Intake SCE
Homeland Dist. Sec. 34
Unt Ranger Station
Bishop
Earlimart


Coalinga 14WNW
Oilfield FS
Huron Rch.
Westhaven
Coalinga Feed Yrd Inc.
Coalinga
Fresno Co. Westside FD
Coalinga 1 SE
Coalinga CDF
Kettleman Sta.
Tulare D
Coalinga Robert Rch.
Kettleman Hills
Parkfield 7NNW
Avenal Walden
Kettleman City
Avenal 8 SW
Carcoran El Rica Se
Avenal 6 SSW
Wil
West Car
Avenal Orchard Rch.
Devils Den SLF
San Miguel
Annette
Blackwells
Paso Robles
Chalome-Twisselman
North Bel
Atascadero
S A N L U I S O B I S P O
Morro Bay
San Luis Obispo
Pt Buchon
Pismo Beach
Arroyo Grande
Santa Maria
S A N T A B A R

Mountain Home 2
Springville Tule HDW
Monache Meadows
Tulare
Lindsay
Hossock
Springville 7ENE
Tule River Intake
Springville RS
Camp Nelson
Tule River PH
Rogers Camp
Quoking Aspen
Porterville 3W
Stevenson Dist. 33
Porterville
Success Dom
Eagle Cr.
Angiola
Johnsondale
Round Meadow
Homeland Dist. Sec. 9
Deer Creek Rch.
Doublebunk Meadow
Kern R. 3 Intake SCE
Loke Farms HDQ
Homeland Dist. Sec. 34
Fountain Springs F.S.
Uhl Ranger Sta.
Vestal
Poesy 3E
Portuguese Meadow
Kern River P.H. 3
Delano
Glenville
Glenville Fulton R.S.
Delano Gov't. Camp
Woody
Wofford Heights
Onyx
Weldon 1WSW
Isobello Dom
Poso Rch.
Wosco
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.
Laroine
DiGiorgio
Buena Vista M&L 2
Buena Vista Rch. M&L
Old River 3S
Arvin
Keene
Fellows
Taft KTKR Radio
Gin Yard
Taft
Tulsfield
Tehachapi Airport
Tehachapi
Eighth Standard Rd.
Moricopa
Santiago Rch.
Moody Rch.
Cummings Valley 2
Moricopa F.S.
Citrus
Pattiway
Tejon Rancho
San Emigdio Rch.
Smith Flat
Burgess Corrals
Wheeler Rde
LWA A-12
Bollinger
Mil Potrero
Lebec
Chuchapote R.S.
VENTURA
ANTELOPE VALLEY
Lancaster

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

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

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

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

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

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

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

000 - Private Cooperators

001 - 399 Private Agencies

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

400 - 799 Counties and municipalities

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

800 - 899 State

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

TABLE A-1 (Continued)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	U. S. Weather Bureau
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	U. S. Weather Bureau (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agen responsible for handling the station records. With few exceptions, the alpha order numbers assigned to U. S. Weather Bureau stations are the same as those used by the Weather Bureau. The U. S. Weather Burea 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

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P	M	36	52	58	119	32	25	000		1958			10
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E		M	37	23	22	119	44	07	907	040049	1959			20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	M	35	59	25	119	28	42	900		1899			54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	E	M	38	04	20	120	32	18	003		1908			52
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	M	35	38	48	120	10	12	000		1952			15
C0 0332	ARVIN	445	SEC 23	T31S	R29E		M	35	12	00	118	49	00	000		1936			15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	M	36	29	30	118	49	35	900		1925			54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E		M	37	21		120	37		000		1961			24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E		M	36	28	00	118	40	00	900		1948			54
B7 0379	AUBERRY 1 NNE	2010	SEC 06	T10S	R23E	H	M	37	05	30	119	29	50	900		1915			10
C0 0396-02	AVENAL WALDEN	810	SEC 21	T22S	R17E	A	M	36	00	21	120	07	50	000		1957	1968		16
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
B5 0425	BADGER PASS	7300	SEC 22	T03S	R21E		M	37	40	00	119	40	00	900		1941			22
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	M	35	22	41	119	02	17	900		1913			15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	M	35	25	38	119	02	34	900		1933			15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B	M	36	54	33	119	05	15	900		1921			10
C6 0466	BALLINGER	4240	SEC 07	T09N	R23W	B	S	34	53	03	119	22	26	000	000003	1961	1967		15
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E		M	36	49		118	53		900		1961			10
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R18E	E	M	38	27	45	120	02	30	000		1967			02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E		M	37	34		120	07		903		1960			22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E		M	38	12	12	120	04	30	404		1959			55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E		M	36	41	00	118	52	00	900		1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E		M	38	00	00	119	47	00	900		1947			55
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B	M	35	20	11	119	05	27	001		1961			15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C	M	36	41	05	119	01	50	000		1967			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	644	SEC 01	T27S	R20E	A	M	35	36	53	119	52	02	900	040875	1944		13	15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E		M	36	57	37	119	26	45	808		1961			10
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D	M	37	02	18	119	14	24	905		1960			10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	M	35	21	00	119	19	00	001		1944			15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	M	35	11	42	119	11	43	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
C6 1199-01	BURGESS CORRALS	1600	SEC 02	T10N	R23W	N	S	34	58	28	119	18	38	000	000001	1960	1967		15
C0 1244	BUTTONWILLOW	268	SEC 14	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	1968		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			10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	M	37	22	03	120	34	20	902		1951			24
B8 1583	CASTLE ROCK RAD LAB	625	SEC 34	T03S	R04E		M	37	38	00	121	32	00	000		1956			39
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 24	T06S	R17E	H	M	37	23	56	120	03	08	900		1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	M	37	28	33	120	06	33	000		1957			22
B6 1590	CATHEYS VALLEY SAWYER	1275	SEC 10	T06S	R17E	C	M	37	25	53	120	05	40	000		1957			22
B6 1591	CATHEYS VAL STONHOUSE	1210	SEC 14	T06S	R17E	M	M	37	24	30	120	05	00	000		1951			22
C5 1647	CHAGOOPA	10390		T16S	R33E		M	36	30		118	27		901		1964			54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	M	37	58	00	119	55	00	900		1955			55
B7 1737	CHIQUITO CREEK	7290	SEC 07	T05S	R24E	N	M	37	30	20	119	23	21			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			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
C0 1871-80	COALINGA FEED YRDS	1000	SEC 04	T20S	R15E	D	M	36	13	23	120	21	12	806		1964	1968		10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E		M	37	16	00	119	42	00	907	041878	1952			20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	M	36	42	20	120	28	25	000		1954			10
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K	M	37	59	00	120	38	00	903		1954		03	05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	M	36	05	53	119	34	51	900		1912			16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	J	M	36	02	36	119	38	42	002		1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	M	35	57	49	119	42	14	002		1951			16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A	M	37	43	25	120	12	12	808		1959			22

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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
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E		M	36	34	00	118	21	00	900		1948			54
B7 2122	CRANE VALLEY PB	3440	SEC 25	T07S	R22E	M	M	37	17	26	119	31	35	003		1903			20
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	M	35	07		118	35		806		1961			15
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E	M	37	07	18	119	59	00	000		1946			20
C3 2335-10	DEER CREEK RCH	950	SEC 05	T23S	R29E	R	M	35	57	15	118	51	28	000		1968			54
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900		1876			15
C0 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904		1952			15
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37	25	24	121	22	42	900		1958			50
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E		M	37	07	00	120	44	00	013		1949		01	24
B0 2389-05	DENAIR 3 NNE	137	SEC 20	T04S	R11E		M	37	34		120	47		900		1964			50
B0 2389-20	DENAIR CHANCE	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000		1965			24
B0 2389	DENAIR DAVISON RCH	250	SEC 12	T05S	R12E	D	M	37	30	55	120	36	40	000		1965	1967		24
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	119	58	22	000		1959			15
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35	15	08	118	51	00	000		1937			15
C0 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	D	M	36	32	32	119	23	30	000		1944			54
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36	20	24	120	21	30	000		1959			10
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36	19	53	120	24	04	000		1958			10
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904		1940			55
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E		M	35	57	00	118	36	00	900		1955			54
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37	45	14	120	06	30	900		1909			22
C1 2577	DUSY BENCH	9470		T10S	R31E		M	37	06		118	35		901		1964			10
C3 2591	EAGLE CREEK	6650		T22S	R31E		M	35	59		118	39		903		1964			54
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37	52	30	119	57	25	401		1925			55
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E		M	35	06	05	119	01	45	001		1963			15
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000		1953			50
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000		1944			39
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900		1935			22
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900		1938			54
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000		1959			24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000		1956			15
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000		1934			10
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900		1942			10
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	20	120	06	12	000		1933			10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900		1940			10
C0 3207	FOUNTAIN SPRINGS R S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	808		1965			54
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900		1899			10
C0 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	806		1963			10
B7 3261	FRIANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36	59	00	119	43	00	900		1896			10
B7 3261-05	FRIANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37	03	07	119	38	48	000		1965			20
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36	34	05	118	46	01	900		1921			54
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002		1960			15
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900		1951			15
C4 3465	GLENNVILLE FULTON RS	3500	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900		1940			15
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E		M	38	09	00	119	36	00	900		1947			55
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900		1924			54
B5 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000		1965			22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900		1940			55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900	PN9065	1940			55
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000		1927			24
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000		1930			24
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000		1928			24
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000		1958			24
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900		1899			16
C0 3749	HANFORD WELL #21	240	SEC 26	T18S	R21E	Q	M	36	20		119	40		000		1964			16
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905		1960			10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	56	42	119	46	54	900		1910			55
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000		1949			22
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900	003954	1960			02
B0 3981	HILMAR	90	SEC 14	T06S	R10E	M	M	37	24	34	120	50	54	000		1948			24
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E		M	36	22	00	118	39	00	900		1959			54
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E		M	37	48		119	52		907		1967			55
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002		1952			16
C0 4061-03	HOMELAND DIST SEC 34	196	SEC 34	T23S	R22E	R	M	35	53	43	119	34	24	002		1951			16
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37	29	40	120	08	55	000		1955			22
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37	28	10	120	14	00	000		1939			22
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37	30	10	120	14	08	901		1960			22
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E		M	36	11	00	118	37	00	900		1959			54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E		M	38	06	00	119	45	00	900		1948			55
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900		1950			05
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900		1915			10

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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 4188	HURON RANCH	335	SEC 22	T19S	R17E		M	36	15	41	120	06	05	000		1951			10
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900		1918			35
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	000		1952			22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	P	M	35	38	46	118	28	45	903		1949			15
C0 4312	IVANHOE I D	370	SEC 36	T17S	R25E	R	M	36	24	15	119	12	21	000		1954			54
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E		M	37	32	36	119	50		905		1958			22
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35	58	13	118	32	27	900		1954			54
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E		M	37	18	00	119	06	00	900		1946			10
C2 4452	KAWEAH PH 3	1370	SEC 33	T16S	R29E	Q	M	36	29	12	118	50	06	004		1913			54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C	M	35	13	28	118	33	55	000	044463	1948			15
B8 4508	KERLINGER	172	SEC 16	T03S	R05E	E	M	37	40	35	121	25	59	900		1947			39
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 ESE	315	SEC 27	T01S	R12E		M	37	47	54	120	38	42	900		1905			50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A	M	38	28	42	120	00	48	900		1948			02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F	M	37	58	00	119	53	00	900		1909			55
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	P	S	34	49	58	118	51	51	900		1940			15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N	M	37	13	50	120	14	50	900		1899			24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H	M	37	18	39	120	15	05	000		1946			24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N	M	36	23	00	119	01	31	900		1899			54
C0 4957	LINDSAY	395	SEC 17	T20S	R27E	F	M	36	11	24	119	04	20	900		1913			54
B0 7999-02	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
B8 5074	LONE TREE CANYON	330	SEC 35	T03S	R05E	E	M	37	37	54	121	23	47	900		1933			39
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
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N	M	35	37	00	119	41	17	900		1912			15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J	M	36	54	48	119	14	42	905		1960			10
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E		M	38	01	00	119	53	00	900		1948			55
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
C0 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	045352	1943			22
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B	M	36	20	24	120	24	54	000		1959			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			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			55
B0 5526	MENDOTA 1 NNW	172	SEC 25	T13S	R14E	H	M	36	46	23	120	23	09	013	PN3064	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
C0 5529	MENDOTA HALFWAY PUMP	450	SEC 07	T17S	R15E	D	M	36	28	10	120	23	30	000		1956	1968		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 5532-01	MERCED SP	170	SEC 30	T07S	R14E	D	M	37	18	01	120	29	02	011		1872	1967		24
B0 5532-03	MERCED 5 SE	198	SEC 06	T08S	R15E	E	M	37	16	00	120	22	36	806		1959	1968		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
B8 5550	MERCY HOT SPRINGS	1165	SEC 15	T14S	R10E	R	M	36	42	15	120	51	33	900		1932			10
C3 5669	MILO 5 NE	3400	SEC 18	T19S	R30E	C	M	36	16	40	118	46	15	900		1957			54
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			54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D	M	36	40	00	119	05	00	900		1958			10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E		M	36	45	00	118	43	00	900		1957			10

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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
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B	M	37	48	40	120	18	20	401		1935			55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H	M	37	38	48	121	00	02	900		1926			50
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J	M	37	40	12	120	58	42	010		1959			50
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M	M	37	38	36	121	00	29	900		1942			50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E		M	36	13	00	118	10	00	900		1940			54
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E		M	35	06	15	118	58	00	001		1963			15
C1 5832	MORAINE CREEK	8840		T14S	R31E		M	36	43		118	34		903		1964			54
C3 5883	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			10
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E	M	37	20	33	122	50	00	900		1889			50
C0 6230-50	NORTH BELRIDGE	630	SEC 26	T27S	R20E	F	M	35	33	04	119	47	28	000		1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M	M	37	13	57	119	30	15	900		1904			20
B0 6303	OAKDALE	155	SEC 11	T02S	R10E	N	M	37	46	10	120	50	53	000		1880		01	50
B0 6305	OAKDALE WOODWARD DAM	215	SEC 09	T01S	R10E	Q	M	37	51	28	120	52	42	900		1918	1968		50
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L	M	37	19	46	119	38	42	000		1961			20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F	M	36	14	50	120	18	50	808	046393	1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E		M	36	18	00	120	24	00	900		1949			10
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C	M	35	16		119	09		806		1965			15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K	M	35	41	00	118	14	00	903		1938			15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K	M	36	37	18	119	18	40	900		1931			10
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D	M	37	21	42	121	03	47	013		1896			50
B5 6552	OSTRANDER LAKE	8600		T03S	R22E		M	37	38	00	119	33	00	900		1947			22
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B	M	37	04	00	121	11	00	900		1949			24
B8 6675	PANOCHE	1265	SEC 25	T15S	R10E	F	M	36	35	47	120	49	58	900		1922			35
B8 6676	PANOCHE 2 W	1320	SEC 21	T15S	R10E		M	36	36	30	120	52	48	407	06	1957			35
B0 6677	PANOCHE CREEK	370	SEC 29	T14S	R13E	D	M	36	41		120	35		000		1963	1968		10
B0 6679-05	PANOCHE WATER DIST	183	SEC 14	T12S	R11E	H	M	36	53	24	120	43	43	000		1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E		M	38	03	00	119	40	00	900		1948			55
D3 6706	PARKFIELD 7 NNW	3590	SEC 21	T22S	R14E	N	M	36	59	46	120	28	26	900		1948			10
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E		M	37	28	00	121	07	00	000		1912			50
C6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E	S	34	56	27	119	22	52	900		1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E		M	36	36	00	118	40	00	900		1956			54
B8 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C	M	36	52	59	121	08	12	000	046839	1954			24
B3 6893	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F	M	38	11	25	119	59	12	003		1922			55
B3 6893-01	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E		M	38	12		119	59		905		1964			55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A	M	36	49	55	119	19	25	903		1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D	M	36	41	54	119	00	54	905		1954			10
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			15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J	M	35	36	30	119	15	45	001		1913			15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P	M	36	58	57	120	30	04	013		1955			10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E		M	36	07	00	118	32	00	900		1955			54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E		M	36	59	00	118	43	00	900		1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J	M	37	10	32	119	55	55	000		1940			20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A	M	37	22	24	119	54	24	000		1957			22
B6 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			22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E		M	36	04	24	118	38	12	901		1964			54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R	M	35	25	40	119	07	42	001		1914			15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E		M	37	19	00	118	52	00	900		1953			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E		M	35	58	00	118	21	00	900		1947			54
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E		M	38	06	00	119	51	00	900		1948			55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L	S	34	59	45	119	10	59	900		1901			15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K	M	36	43	30	119	32	36	000		1959			10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E	M	36	43	48	119	33	18	808		1958			10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	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			10
B0 7836-01	SAN JUAN RCH CO	105	SEC 10	T10S	R12E	B	M	37	04	50	120	38	35	000	PN5121	1947	1967		24
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E		M	37	03		121	04		904		1959			24
B0 7855	SAN LUIS CANAL CO HQ	106	SEC 21	T10S	R12E	C	M	37	03	15	120	39	45	013		1944			24
C0 7987-80	SANTIAGO RANCH M & L	437	SEC 27	T12N	R22W		S	35	05	35	119	12	35	000		1963			15
C6 8304	SMITH FLAT	3800	SEC 32	T10N	R23W	K	S	34	54	24	119	21	15	000	000004	1960	1967		15

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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
B0 8316	SNELLING	259	SEC 04	T05S	R14E		M	37	31	24	120	26	18	000		1882		19	24
B0 8316-05	SNELLING 3 WNW	300	SEC 36	T04S	R13E	J	M	37	32	35	120	28	57	000		1949			24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E		M	37	50	00	119	30	00	900		1947			22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P	M	37	01	30	119	15	06	905		1960			10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E		M	37	59	00	120	23	00	900		1887			55
C0 8375-50	SOUTH BELRIDGE	575	SEC 28	T28S	R21E	R	M	35	27	23	119	42	37	000		1938			15
B0 8378	SOUTH DOS PALOS	116	SEC 21	T11S	R12E	A	M	36	57	52	120	39	15	000		1938			24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N	M	37	30	26	119	37	55	900		1941			22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A	M	35	56	02	119	38	46	000		1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 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
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E		M	36	56	00	118	35	00	900		1955			10
C0 8520	STEVENSON DIST SC 33	212	SEC 33	T21S	R23E	K	M	36	03	27	119	29	17	002		1951			54
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	M	36	03	00	118	55	00	903		1959			54
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	Q	M	37	05	12	119	12	36	000		1960			10
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	M	35	08	34	119	27	53	900		1940			15
C7 8755	TAFT KTKR RADIO	1030	SEC 14	T32S	R23E	G	M	35	08	50	119	28	18	000		1954			15
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	M	35	08	00	118	27	00	900		1876			15
C6 8832	TEHACHAPI 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			15
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	M	36	24	37	119	00	20	903		1959			54
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	M	36	18	47	120	21	51	000		1959			10
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C	M	36	22	00	118	51	00	900		1940			54
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T17S	R29E	Q	M	36	27	40	118	52	40	900		1909			54
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K	M	36	27	58	118	51	40	900		1940			54
C0 9006	TRANQUILITY GLOTZ	165	SEC 16	T15S	R16E	C	M	36	37	57	120	14	13	000		1953			10
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	M	36	54	05	119	17	16	905		1948			10
B6 9020-15	TRIANGLE-YORK	3150	SEC 20	T05S	R20E	D	M	37	29	18	119	48	41	000		1965			22
C0 9051	TULARE	293	SEC 01	T20S	R24E	N	M	36	12	45	119	19	50	004		1919			54
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A	M	36	04	41	119	47	33	002		1953			16
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B	M	35	09	00	119	01	00	900		1948			15
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	M	36	09	42	118	42	22	004		1910			54
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	M	36	08	07	118	47	15	004		1910			54
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E		M	36	22	00	118	17	00	900		1945			54
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	M	37	52	30	120	36	12	404		1958			05
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E		M	37	53	00	119	20	00	900		1947			55
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	M	37	29	28	120	51	00	900		1893			50
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	M	37	27	52	120	54	39	000		1958			50
B0 9073-02	TURLOCK 8 WSW	65	SEC 22	T05S	R09E	L	M	37	28	20	120	58	00	000		1958			50
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	M	35	32	00	119	16	40	906		1922			15
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	M	35	53		118	39		900		1965			54
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	SEC	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			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
C0 9535	WEST CAMP SLF	290	SEC 11	T24S	R19E	R	M	35	50	51	119	52	43	000		1959			16
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	M	37	26	58	119	38	59	905		1961			20
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	M	36	13	38	119	59	40	900		1925			10
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	M	37	33	00	121	12	00	000		1928			50
C5 9602	WET MEADOW	8950	SEC 13	T18S	R32E	R	M	36	20	56	118	34	16	900		1959			54
C0 9614-81	WHEELER RDE LWU A-12	1230	SEC 01	T10N	R20W	G	S	34	58	38	118	57	25	806'		1963			15
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	PN4527	1894			15
C1 9773	WOODCHUCK MEADOW	9200	SEC 27	T10S	R28E		M	37	02	00	118	54	00	900		1955	1967		10
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	M	35	42	02	118	50	34	808	049805	1956			15
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E		M	37	45	00	119	35	00	900		1904			22

TABLE A-2

PRECIPITATION DATA

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

-	No record or record incomplete.
*	Amount included in the following measurement. Time distribution unknown.
E	Wholly or partially estimated.
T	Trace, an amount too small to measure.
V	Includes total from previous month.
RB	Record begins.
RE	Record ends.

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

TABLE A-2

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1967						1968									TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
SAN JOAQUIN R BASIN																	
SAN JOAQUIN VAL FL																	
ATWATER-CRAIG	7.53	0.00	0.00	T	0.04	1.18	1.03	1.44	1.85	1.51	0.39	0.09	0.00	0.00	T	0.00	7.53
CASTLE AFB	7.21	0.00	0.00	0.09	0.04	1.29	0.53	1.74	1.52	1.63	0.32	0.05	0.00	0.00	T	0.00	7.12
DELTA RCH	5.24	0.00	0.00	0.00	0.00	0.98	0.83	0.80	1.25	1.05	0.25	0.08	0.00	0.00	0.00	0.00	5.24
DENAIR 3 NNE	8.40	0.00	0.00	0.03	0.27	1.16	0.86	1.68	1.46	1.97	0.91	0.06	T	0.00	T	0.00	8.37
DENAIR CHANCE	7.73	0.00	0.00	0.07	0.14	1.31	0.59	1.51	1.89	1.59	0.51	0.12	0.00	0.00	T	0.00	7.66
DENAIR DAVISON RCH	-	0.00	0.00	0.00	0.15	1.55	0.87	RE									-
EL SOLYO RCH	8.16	0.00	0.00	0.00	0.05	0.85	1.00	2.52	1.57	1.85	0.22	0.10	0.00	0.00	0.65	0.00	8.81
ESCALON SWANSON	9.71	0.00	0.00	0.02	0.29	1.08	1.32	2.60	1.28	2.69	0.27	0.16	0.00	0.00	0.02	0.00	9.71
FANCHER RCH CAMP 3	9.73E	0.00E	0.00E	0.00E	0.06	1.99	1.36	1.33	1.79	1.51	1.48	0.21	0.00E	0.00E	0.01	0.00E	9.74E
FIREBAUGH 9 W	-	0.00	0.00	0.05	-	-	-	-	-	1.06E	1.40E	0.35	0.00	0.00	0.00	0.00	-
GUSTINE 5 SW	5.84	0.00	0.00	0.00	0.17	0.67	0.78	1.04	1.13	0.98	0.99	0.08	0.00	0.01	0.01	0.00	5.86
GUSTINE SNYDER	6.02	0.00	0.00	0.00	0.13	0.92	0.53	1.02	1.24	0.94	1.18	0.06	0.00E	0.00E	0.00E	0.00E	6.02E
GUSTINE FOREMOST	6.23	0.00	0.00	0.00	0.23	1.07	0.48	1.36	1.17	1.07	0.78	0.07	0.00	0.00	0.00	0.00E	6.23E
GUSTINE 7 SSW	5.70	0.00	0.00	0.02	0.16	1.05	0.76	1.03	1.23	0.85	0.55	0.05	0.00	0.00	T	0.00	5.68
HILMAR	6.73E	0.00	0.00	T	0.00	1.41	0.86	1.53	1.31E	0.83	0.79	0.00	0.00	0.00	T	0.00	6.73E
KNIGHTS FERRY 2 ESE	14.70	0.00	T	0.02	0.62	1.84	1.70	3.14	2.20	3.61	0.61	0.69	0.27	T	T	0.00	14.68
LE GRAND	10.26	0.00	0.01	0.03	0.09	3.41	0.75	1.27	1.77	1.83	0.97	0.13	0.00	0.00	0.04	0.00	10.26
LE GRAND 6 N	10.15	0.00	0.00	0.00	0.16	3.36	0.87	1.23	1.50	1.42	1.36	0.25	0.00	0.00	0.00	0.00	10.15
LIVINGSTON CITY HALL	7.34	0.00	0.00	T	0.06	0.95	0.65	1.30	1.82	1.96	0.47	0.13	0.00	0.00	T	0.00	7.34
LIVINGSTON 5 W	5.92	0.00	0.00	0.00	0.04	0.80	0.66	1.06	1.30	1.42	0.58	0.04	0.00	0.00	0.01	0.00	5.91
LOS BANOS 5 S	5.31	0.00	0.00	0.04	0.02	1.32	0.84	0.87	0.84	1.20	0.08	0.10	0.00	0.00	0.00	0.00	5.27
LOS BANOS FIELD STA	5.50	0.00	0.00	0.04	0.09	1.26	0.97	0.83	1.02	0.99	0.10	0.20	0.00	0.00	T	0.00	5.46
LOS BANOS	5.92	0.00	0.00	0.02	0.07	1.35	1.03	0.84	1.18	1.13	0.18	0.12	0.00	0.00	T	0.00	5.90
MADERA ID YARD	8.23	0.00	0.00	0.01	0.00	1.21	1.62	0.93	1.43	1.75	1.07	0.21	0.00	0.00	0.00	0.00	8.22
MADERA	8.26	0.00	T	0.10	0.02	1.37	1.45	0.84	1.57	1.58	1.02	0.31	0.00	0.00	0.03	0.00	8.19
MANTECA	10.75	T	0.00	0.04	0.18	0.89	1.45	3.63	1.41	2.59	0.36	0.20	0.00	0.00	0.07	0.00.	10.78
MENDOTA 1 NNW	5.30	0.00	0.00	0.09	0.03	1.00	1.06	0.83	0.82	0.94	0.43	0.10	0.00	0.00	0.05	0.00	5.26
MENDOTA DAM	5.69	0.00	0.00	0.14	T	0.88	1.11	0.96	1.04	1.00	0.52	0.04	0.00	0.00	0.04	0.00	5.59
MENDOTA VDL FARMS	8.47	0.00	0.00	0.01	0.00	1.34	0.71	0.69	0.84	0.86	0.39	0.03	0.00	0.00	0.00	0.00	4.86
MERCED FIRE STN 2	7.54	0.00	0.00	0.06	0.03	1.34	0.86	1.39	1.93	1.43	0.49	0.01	0.00	0.00	T	0.00	7.48
MERCED S P	-	0.00	0.00	0.15	RE												-
MERCED 5 SE	9.92	0.00	0.00	0.04	0.05	1.62	1.03	1.40	2.37	1.91	1.35	0.15	0.00	0.00	RE		
MERCED FANCHER RCH	9.19	0.00	0.00	0.00	0.05	1.66	1.42	1.31	1.99	1.48	1.13	0.15	0.00	0.00	T	0.00	9.19
MERCED 2	7.86	0.00	0.00	0.10	0.03	1.45	0.73	1.36	1.84	1.55	0.75	0.05	0.00	0.00	0.02	0.00	7.78
MODESTO	8.56	0.00	0.00	T	0.20	0.98	0.84	1.84	1.29	2.93	0.31	0.17	0.00	0.00	T	0.00	8.56
MODESTO KTRB	8.08	0.00	0.00	T	0.32	0.65	0.93	1.92	1.08	2.78	0.23	0.17	0.00	0.00	0.01	0.00	8.09
MODESTO 2	7.89	0.00	0.00	0.00	0.16	0.84	0.73	1.71	1.09	2.87	0.34	0.15	0.00	0.00	0.02	0.00	7.91
NEWMAN 2 NW	6.06	0.00	0.00	T	0.24	1.13	0.68	1.27	0.89	1.21	0.62	0.02	0.00	0.00	T	0.00	6.06
OAKDALE	10.30	0.00	0.00	0.02	0.26	0.93	1.55	2.51	1.61	2.54	0.56	0.32	0.00	0.00	0.00	0.00	10.28
OAKDALE WOODWARD DAM	-	-	-	-	0.30	0.80	1.37	-	RE								-
ORESTIMBA	5.66	0.00	0.00	0.02	0.02	0.84	0.84	1.25	0.79	1.32	0.55	0.03	0.00	0.00	0.00	0.00	5.64
PANOCHE CREEK	6.02	0.00	0.00	0.10	T	1.95	0.73	0.64	0.97	1.14	0.43	0.06	0.00	0.00	0.08	0.00E	6.00E
PANOCHE WATER DIST	6.26	0.00	0.00	0.03	T	1.70	0.82	0.72	1.09	1.11	0.61	0.18	0.00	0.00	0.30	0.00E	6.53
PATTERSON	7.09E	0.00	0.00	0.01	0.03	0.82	0.87	1.74	0.51	2.67	0.39	0.05	0.00E	0.00E	0.00E	0.00E	7.08E
POSO CANAL CO HDQ	6.62	0.00	0.00	T	T	0.75	1.23	0.70	1.36	1.73	0.69	0.16	0.00	0.00	0.00	0.00	6.62
RIPON	9.75	0.00	0.00	0.04	0.17	0.86	1.48	3.15	1.25	2.45	0.24	0.11	0.00	0.00	0.07	0.00	9.78
SAN JUAN RCH CO	-	0.00	0.00	0.00	T	1.04	RE										
SAN LUIS CANAL CO HQ	6.11	0.00	0.00	T	0.00	1.64	0.42	0.93	1.57	1.23	0.20	0.12	0.00	0.00	0.00	0.00	6.11
SNELLING	8.82	0.00	0.00	0.08	0.08	1.83	0.76	1.51	2.05	1.90	0.42	0.19	0.00	0.00	0.03	0.00	8.77
SNELLING 3 WNW	9.11	0.00	0.00	0.00	0.16	1.48	0.73	1.64	2.41	2.13	0.42	0.14	0.00	0.00	0.00	0.00	9.11
SOUTH DOS PALOS	6.30	0.00	0.00	T	T	1.17	0.79	0.81	1.25	1.55	0.57	0.16	0.00	0.00	0.18	0.00	6.48
TURLOCK	7.29	0.00	0.00	T	0.15	0.85	0.83	1.56	1.28	1.94	0.65	0.03	0.00	0.00	0.02	0.00	7.31
TURLOCK 5 SW	6.68E	0.00	0.00	0.00	0.18	1.50	0.50	1.70	1.35	0.75	0.70	T	0.00E	0.00E	T	0.00E	6.68E
TURLOCK 8 WSW	6.25	0.00	0.00	0.00	0.00	0.26	1.08	1.56	0.89	1.72	0.71	0.03	0.00	0.00	0.00	0.00	6.25
WESTLEY	6.81	0.00	0.00	0.00	0.05	0.73	1.05	2.12	0.61	1.93	0.32	0.00	0.00	0.00	0.00	0.00	6.81
STANISLAUS RIVER																	
ANGELS CAMP	22.70	0.00	0.00	0.11	1.54	2.66	3.63	5.17	4.69	3.24	0.76	0.80	0.10	0.00	0.13	0.00	22.72
BEARDSLEY DAM	23.17	0.00	0.39	0.90	0.54	2.47	3.35	4.94	4.81	3.48	0.73	1.44	0.02	0.10	0.65	0.00	22.53
BEAR VALLEY-ALPINE	-	RB	-	1.23	1.23	5.42	-	-	-	-	-	-	-	-	2.08	0.04	-
CALAVERAS RANGER STA	29.10	0.00	0.02	0.71	1.71	3.99	5.74	5.54	5.51	4.04	0.63	1.21	0.00	0.19	1.00	0.00	29.56
COPPEROPOLIS	17.45E	0.00	0.00	0.05	1.05	2.06	1.96	4.14	4.10	2.77	0.61	0.65	0.06E	0.00E	T E	0.10E	17.50E
HUNTERS DAM	29.39	0.00	0.02	0.70	1.86	3.98	6.01	5.44	5.46	4.08	0.50	1.31	0.03	0.06	0.96	0.00	29.69
MELONES DAM	20.98E	0.00	0.00	0.05E	1.40	2.07	2.61	4.91	4.77	3.73	0.61	0.82	0.01	0.02	0.20	0.00	21.15
PINECREST STRAWBERRY	30.21	0.00	1.83	0.93	0.58	3.60	4.57	6.21	5.43	4.15	1.06	1.85	0.00	0.08	2.04	0.00	29.57
PINECREST SUMMIT R S	29.76	0.01	1.20	0.82	0.60	4.56	3.80	6.56	4.75	4.57	0.94	1.90	0.05	0.22	1.42	0.00	29.37
SPRING GAP FOREBAY	28.85	0.00	0.37	1.50	0.66	3.21	5.28	6.25	5.00	3.90	0.80	1.75	0.13	0.07E	1.12	0.00	28.17E
STANISLAUS P N	23.99	0.00	0.04	0.64	1.42	2.52	4.51	4.69	4.47	3.36	1.38	0.93	0.03	0.00	0.51	0.00	23.82
TULLOCH DAM	15.84	0.00	0.00	0.03	0.77	1.79	2.13	3.46	2.76	3.55	0.59	0.66	0.10	0.00	0.05	0.00	15.86
TUOLUMNE RIVER																	
CHERRY VALLEY DAM	31.77	0.00	0.15	1.06	0.27	3.63	6.39	5.83	6.31	5.11	1.13	1.54	0.35	0.12E	1.20	0.00	31.88E
DON PEDRO RESERVOIR	14.14	0.00	0.00	0.08	0.53	2.61	1.58	2.65	2.99	2.71	0.41	0.51	0.07	0.00	0.00	0.00	14.06
EARLY INTAKE P H	20.55	0.00	0.00	0.19	0.20	2.66	3.80	3.95	3.88	3.77	0.81	1.22	0.07	0.00	0.33	0.00	20.69
GROVELAND 2	23.03E	0.00	0.00	0.65E	0.51	3.51	3.53	4.48	3.37	4.84	0.72	1.39	0.03	0.00	0.48	0.00	22.86
GROVELAND R S	24.79	0.00	0.50	0.81	0.46	2.65	4.33	4.69	4.04	4.88	1.04	1.24	0.15	0.00	0.26	0.00	23.74
HETCH HETCHY	22.04	T	0.60	0.88	0.21	2.44	3.53	4.35	4.92	3.03	0.87	1.04	0.17	0.12	0.41	0.00	21.09
HODGDON MEADOW	31.15	T	0.87	1.34	0.28	4.15	7.45	5.59	4.45	3.50	1.52	1.30	0.70	0.07	0.53	0.00	29.54
LAKE ELEANOR	23.12	0.02	0.09	1.00	0.17	2.40	4.84	4.40	5.66	4.13	0.60	1.45	0.52	0.11	0.65	0.00	22.77
MATHER	21.62	0.00	1.25	1.03	0.44	3.02	3.64	3.85	3.86	2.59	0.78	0.83	0.33	0.07	0.21	0.00	19.62
MOCCASIN	19.79	0.00	0.51	0.99	0.56	2.51	3.28	3.06	3.07	4.27	0.46	0.84	0.24	0.00	0.26	0.00	18.55
SONORA R S	23.23	0.00	T	0.23	1.50	3.09	3.89	4.57	4.39	3.73	0.46	1.24	0.13	T	0.39	0.00E	23.39E
MERCED RIVER																	
BEAR VALLEY	17.33E	0.00E	0.00E	0.40	0.30	3.20	2.69	2.54	2.91	3.41	1.11	0.77	0.00	0.00	0.00	0.00	16.93
CATHEYS VALLEY 3 NNW	14.12	0.00	0.00	0.25	0.35	2.47	1.95	2.20	2.60	2.90	0.70	0.70	0.00	0.00	0.00	0.00	13.87
COULTERVILLE FFS	18.88	0.00	0.00	0.20	0.29	2.36	3.30	3.06	3.61	4.42	0.43	0.91	0.30	0.00	0.14	0.00	18.82
DUDLEYS	23.16	0.00	T	0.65	0.34	3.95	3.23	4.59	3.86	4.56	0.68	1.10	0.20	T	0.22	0.00	22.73
EXCHEQUER RESERVOIR	12.81	0.00	0.00	0.06	0.30	1.78	2.28	1.79	2.39	2.98	0.77	0.46	0.00	0.00	0.08	0.00	12.83

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1967						1968									TOTA OCT TO SEPT
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
GREELEY HILL 1 N	25.00	0.00	0.00	0.40	0.38	3.01	5.85	3.85	4.33	4.98	0.77	1.10	0.33	0.00	0.22	0.00	24.82
HORNITOS ERICKSON RCH	12.00	0.00	0.00	0.16	0.22	1.40	2.11	2.00	2.25	2.36	1.00	0.50	0.00	0.00	0.04	0.00	11.88
HORNITOS GILES RCH	12.48	T	0.00	0.16	0.30	2.34	1.41	1.97	2.31	2.53	1.12	0.34	0.00	T	0.02	0.00	12.34
HORNITOS USCE	-	-	-	-	0.25	2.27	1.20	1.77	1.83	2.25	-	-	-	-	-	-	-
INDIAN GULCH	11.93	0.00	0.00	0.11	0.22	1.69	2.47	1.54	2.19	2.09	1.24	0.38	0.00	0.02	0.00	0.00	11.84
JERSEYDALE G S	-	0.00	0.00	0.71	-	-	2.69	-	-	-	-	-	-	-	-	-	-
MARIPOSA	19.38	0.00	0.00	0.61	0.15	3.36	3.89	2.85	3.57	2.87	0.84	1.24	T	0.00	T	0.00	18.77
MARIPOSA REYNOLDS	19.66	0.00	0.00	0.60	0.22	3.33	3.64	3.02	3.72	2.95	0.84	1.31	0.03	0.02	0.00	0.00	19.08
MARIPOSA R S	19.30	0.00	0.09	0.34	0.15	4.57	2.56	2.92	3.61	3.14	1.13	0.77	0.02	0.00	0.00	0.00	18.87
MC DIERMID STA		0.00	0.00	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-
SO ENTRANCE YOSEMITE	26.44	0.00	T	1.53	0.20	5.21	5.48	4.47	2.79	3.21	1.40	1.33	0.82	0.28	0.41	0.00	24.72
WAWONA R S	22.60	0.00	0.00	1.11	0.04	4.00	3.79	4.10	3.39	3.19	1.33	0.87	0.78	0.10	0.19	0.00	21.78
YOSEMITE NAT PARK	20.54E	0.00E	0.53	0.89	0.10	2.61	4.36	3.89	3.85	2.17	0.94	0.88	0.32	0.22	0.57	0.03	19.94
FRESNO-CHOWCHILLA R																	
AHWANNEE 2 NNW	18.81	0.00	0.00	0.86	0.23	2.44	3.70	2.40	3.60	2.94	1.06E	0.86	0.72	0.02	0.08	0.00	18.05
CATHEYS VAL BULL RUN R	14.65	0.00	0.00	T	0.11	2.80	2.97	2.14	2.63	2.23	0.77	1.00	0.00	0.02	0.00	0.00	14.67
CATHEYS VALLEY SAWYER	13.18	0.00	0.00	0.13	0.18	2.63	2.19	2.05	2.42	2.25	0.78	0.55	0.00	T	T	0.00	13.05
CATHEYS VAL STONHOUSE	13.43	0.00	0.00	0.17	0.16	2.94	2.08	1.96	2.32	2.12	0.79	0.89	0.00	0.00	0.03	0.00	13.29
COARSEGOLD	18.80	0.00	0.00	0.89	0.22	1.79	2.99	3.20	3.39	3.24	1.80	1.16	0.12	T	0.16	0.00	18.07
DAULTON	9.50	0.00	0.00	0.07	0.02	2.04	1.11	1.32	1.91	1.78	0.91	0.34	0.00	0.00	0.00	0.00	9.43
HIDDEN VALLEY	20.41	0.00	0.01	0.54	0.10	3.02	4.65	3.24	3.62	2.89	0.99	1.24	0.12	0.46	0.11	0.00	20.44
MARIPOSA 8 ESE	20.16	0.00	T	*	V0.70	2.75	4.33	2.90	3.53	3.07	1.13	1.53	0.22	0.23	0.09	0.00	20.48
OAKHURST	17.52	0.00	0.00	0.86	0.10	1.67	2.70	4.31	2.81	2.77	0.73	1.16	0.41	T E	0.12E	0.00	16.78
RAYMOND 3 SSW	9.40	0.00	0.00	0.00	0.00	1.25	2.00	0.85	1.50	2.15	0.90	0.75	0.00	0.00	0.15	0.00	9.55
RAYMOND 10 N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAYMOND 12 NNE	15.67	0.00	0.00	0.64	0.05	3.13	2.19	1.62	3.69	2.19	0.80	1.16	0.20	T	0.00	0.00	15.03
ROCKY VILLAGE	13.16	0.00	0.00	0.15	0.15	3.16	2.15	1.51	2.31	2.20	0.85	0.68	0.00	0.00	0.00	0.00	13.01
TRIANGLE-YORK	23.10E	0.00	T	1.23	0.15	4.05	3.34E	3.52	3.57	3.29	1.39	1.61	0.95	0.00	0.15	0.00	22.02
WESTFALL R S	29.61	0.00	0.05	1.54	0.23	3.69	7.46	3.60	4.43	3.95	2.10	1.63	0.93	0.03	0.15	0.00	28.20
WHITE ROCK PRESTON	-	-	-	-	-	2.93	1.51	1.73	2.02	2.29	0.67	0.60	-	-	-	-	-
SAN JOAQUIN RIVER																	
AUBERRY 1 NNE	15.41	0.00	T	0.69	0.00	2.70	2.86	2.87	1.46	2.42	0.88	1.41	0.12	T	T	0.00	14.72
BIG CREEK PH 1	16.11	T	0.20	1.03	T	2.74	2.34	2.35	2.94	2.26	1.21	0.64	0.40	0.11	0.27	0.00	15.26
BIG CREEK PH 2	17.43	0.00	0.44	0.99	0.00	2.95	2.39	3.01	2.72	2.45	1.29	0.94	0.25	0.08	0.04	0.00	16.12
BIG CREEK PH 3	16.28	0.00	T	0.77	0.00	2.68	2.30	2.82	2.33	2.46	1.43	1.23	0.26	0.02	T	0.00	15.53
BIG CREEK PH 8	17.05	0.00	0.13	0.81	0.00	2.36	2.87	3.13	2.72	2.15	1.75	0.96	0.17	0.05	0.03	0.00	16.15
CRANE VALLEY PH	21.72	0.00	T	1.22	0.05	2.91	3.91	4.66	2.85	3.12	1.20	1.48	0.32	0.04	0.03	0.00	20.57
FLORENCE LAKE	15.94	1.17	1.89	1.78	0.03	2.57	1.95	1.72	1.81	1.66	0.80	0.37	0.19	0.60	0.08	0.04	11.82
FRIANT GOVERNMENT CAMP	8.97	0.00	0.00	0.13	0.07	1.46	1.82	1.31	1.24	2.06	0.47	0.41	0.00	0.00	T	0.00	8.84
FRIANT STILLWELL	12.10	0.00	0.00	1.05	0.00	1.80	2.36	1.88	1.74	2.01	0.60	0.66	0.00	0.00	0.00	0.00	11.05
HUNTINGTON LAKE	22.34	0.05	0.33	1.51	0.02	3.09	3.15	4.53	3.93	3.15	1.51	0.83	0.24	0.13	0.18	0.00	20.76
MEADOW LAKE	17.07	0.00	T	0.53	0.00	2.76	2.30	3.26	2.42	2.75	1.08	1.62	0.35	T	T	0.00	16.54
MT GIVENS	-	-	3.2	-	0.00	-	1.8	1.5	1.8	1.5	0.9	-	0.2	.6	.2	-	-
NORTH FORK R S	20.93	0.02	T	1.11	0.03	2.55	4.08	3.85	2.62	3.21	1.19	1.58	0.69	0.02	0.04	0.00	19.86
SAN JOAQUIN EXP RGE	12.00	0.00	0.00	0.33	0.21	2.27	1.97	1.57	1.70	2.72	0.47	0.76	0.00	0.05	0.04	0.00	11.76
SAN JOAQ VAL WESTSIDE																	
CASTLE ROCK RAD LAB	9.32	0.00	0.00	T	0.06	0.67	1.61	2.46	2.50	1.60	0.26	0.16	0.00	0.00	1.45	0.00	10.77
DEL PUERTO ROAD CAMP	-	0.00	0.00	0.00	0.05	0.95	1.25	2.67	-	-	-	-	0.00	T	0.25	0.00	-
IDRIA	-	0.00	0.00	0.33E	-	-	-	1.23	1.02	1.86	0.92	0.28	0.00	T	0.06	0.00	-
KERLINGER	7.65E	0.00E	0.00	0.01	0.07	0.48	1.19	2.78	0.93	1.77	0.21	0.21	0.00	0.00	2.59	0.00	10.23
LONE TREE CANYON	7.65	0.00	0.00	0.02	0.09	0.45	1.10	2.99	0.99	1.52	0.19	0.30	0.00	0.00	0.34	0.00E	7.97
LOS BANOS ARBURUA RCH	4.63	0.00	0.00	0.02	0.09	1.53	0.87	0.71	0.63	0.53	0.18	0.07	0.00	0.00	0.00	0.00	4.61
MERCY HOT SPRINGS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PACHECO PASS	6.60E	0.00E	0.00E	0.00	0.20	0.94	1.29	1.08	1.22	1.30	0.52	0.05	0.00	0.00	0.00	0.00	6.60
PANOCHE	4.60	0.00	0.00	0.11	0.14	1.14	0.70	0.54	0.55	0.84	0.53	0.05	0.00	T	T	0.00	4.49
PANOCHE 2 W	6.17	0.00	0.00	0.22	0.20	0.82	1.53	1.02	0.77	1.06	0.50	0.05	T	T	T	0.00	5.95
PFEIFFER RCH	11.58	0.00	0.00	0.02	0.38	1.90	2.60	1.72	1.92	2.55	0.34	0.15	0.00	0.01	0.26	0.00	11.83
SAN LUIS DAM	5.78	0.00	0.00	0.02	0.15	1.05	1.11	0.96	1.21	1.00	0.24	0.04	0.00	0.00	0.00	0.00	5.76
TULARE LAKE BASIN																	
TULARE LAKE VAL FL																	
ANGIOLA	5.94E	0.00	0.00	0.00	0.00	1.40	0.76	0.79	1.04	1.54	0.33	0.08	0.00E	0.00	0.00	0.00	5.94
ARVIN	7.42E	0.00E	0.00	0.82	0.00	3.17	0.85	0.52	0.61	0.65	0.34	0.46	0.00	0.00	0.00	0.00	6.60
AVENAL WALDEN	-	0.00	0.00	0.13	T	1.83	0.47	0.42	RE								
AVENAL ORCHARD	6.64E	0.00	0.00	0.10	0.06	2.22	0.54	0.64	0.64	1.82	0.62	0.00E	0.00E	0.00E	0.10E	0.00	6.64
BAKERSFIELD 1 W	6.33	0.00	0.00	0.24	0.00	2.21	0.93	0.57	0.63	0.96	0.67	0.12	0.00	0.00	0.00	0.00	6.09
BAKERSFIELD WB AP	5.19	T	0.00	0.11	0.00	1.76	0.54	0.49	0.56	1.01	0.66	0.06	0.00	T	T	0.00	5.08
BELLEVUE	6.40	0.00	0.00	0.36	0.00	2.50	0.90	0.53	0.48	0.94	0.57	0.12	0.00	0.00	0.00	0.00	6.04
BLACKWELLS CORNER	-	0.00	-	-	0.00	2.23	-	-	-	-	-	-	-	-	-	-	-
BUENA VISTA RCH	5.31	0.00	0.00	0.14	0.00	2.29	0.55	0.37	0.69	1.03	0.20	0.04	0.00	0.00	0.00	0.00	5.17
BUENA VISTA RCH M&L	-	0.00	0.00	0.00	0.00	1.74	-	0.37	0.41	0.60	0.10	-	0.00E	0.00E	0.00E	0.00E	-
BUENA VISTA RCH M&L 2	-	0.00	0.00	0.00	0.00E	1.21	-	0.42	0.56	-	-	-	0.00E	0.00E	0.00E	0.00E	-
BUTTONWILLOW	5.41	0.00	0.00	0.10	0.00	1.71	0.85	0.45	0.90	1.19	0.14	0.06	0.01	0.00	0.00	0.00	5.31
CANTUA RANCH	4.64	0.00	0.00	0.32	0.00E	0.97	0.65	0.37	0.79	0.84	0.70	0.00E	0.00E	0.00E	0.00E	0.00E	4.32
CARUTHERS 4 E	6.91	0.00	0.00	0.19	0.01	1.36	0.95	0.83	1.33	1.29	0.73	0.22	0.00	0.00	T	0.00	6.72
CITRUS	6.38	0.00	0.00	0.22	0.00	2.41	0.95	0.75	1.01	0.62	0.31	0.11	0.00	0.00	0.00	0.00	6.16
COALINGA	5.21	0.00	0.00	0.11	0.22	1.37	0.47	0.36	0.96	1.22	0.50	0.00	0.00	0.00	T	0.00E	5.10
COALINGA 1 SE	3.99	0.00	0.00	0.06	0.20	1.27	0.37	0.18	0.52	0.94	0.45	0.00	0.00	0.00	0.00	0.00	3.93
COALINGA CDF	4.21	0.00	0.00	0.09	0.16	1.19	0.40	0.19	0.61	1.06	0.51	0.00	0.00	0.00	T	0.00	4.12
COALINGA FEED YARDS	-	0.00	0.00	0.10	0.17	0.88	0.54	0.44	-	-	RE						-
CDIT RANCH HDQ	4.05E	0.00	0.00	0.00	0.00	1.04	0.47	0.74	0.65	0.82	0.33	0.00E	0.00E	0.00E	0.00E	0.00E	4.05
CORCORAN IRRIG DIST	4.27	0.00	0.00	0.04	0.00	1.46	0.39	0.47	0.69	0.87	0.35	0.00	0.00	T	0.00	0.00	4.23
CORCORAN EL RICO 1	4.23	0.00	0.00	T	0.00	1.44	0.38	0.67	0.53	0.82	0.37	0.02	0.00	0.00	0.00	0.00	4.23
CORCORAN EL RICO 33	5.08	0.00	0.00	0.27	0.00	1.42	0.41	0.53	0.77	1.10	0.58	0.00	0.00	0.00	0.00	0.00	4.81
DELANO	5.90	0.00	0.00	0.10	0.00	1.82	0.54	0.48	0.68	1.72	0.53	0.03	0.00	T	0.00	0.00	5.80
DELANO GOVT CAMP												RB	0.00	0.00	0.00	0.00	
DEVILS DEN SLF	6.19E	0.00	0.00	0.08	0.00	2.53	0.21	0.42	0.79	1.74	0.37	0.05E	0.00	0.00	0.00	0.00E	6.11
DIGIORGIO	6.31	0.00	0.00	0.42	0.00	2.32	0.92	0.54	0.74	0.79	0.25	0.33	0.00	T	T	0.00	5.89
DINUBA ALTA ID	7.10	0.00	0.00	0.14	0.00	1.80	0.93	1.25	1.02	1.11	0.75	0.10	0.00	0.00	0.00	0.00	6.96
EIGHTH STAND RCH	4.73E	0.00	0.00	0.15	0.00	2.39	0.50	0.41	0.43	0.42E	0.35	0.08	0.00	0.00	0.00	0.00	4.58
EXETER FAUVER RCH	8.65	0.00	0.00	0.98	0.00	2.04	1.33	1.35	0.87	1.14	0.39	0.20	0.35	0.00	0.00	0.00	7.67

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1967						1968									TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
FIVE POINTS 5 SSW	4.92	0.00	0.00	0.23	0.00	1.66	0.29	0.53	0.69	1.09	0.43	0.00	0.00	0.00	0.00	0.00	4.69
FIVE POINTS-DIENER	4.88	0.00	0.00	0.34	T	1.24	0.42	0.49	0.63	1.26	0.35	0.15	0.00	0.00	0.00	0.00E	4.54
FOUNTAIN SPRINGS F S	6.63	0.12	T	0.40	0.00	0.68	0.79	0.81	1.27	1.83	0.55	0.06	0.12	0.00	0.00	0.00	6.11
FRESNO WB AP	7.24	T	T	T	0.07	1.55	1.04	1.05	1.10	1.49	0.70	0.24	0.00	T	T	0.00	7.24
FRESNO CO WESTSIDE FD	3.95E	0.00	0.00	0.13	0.17	1.29	0.32	0.22	0.65	0.86	0.60	0.01	0.00E	0.00	T	0.00	3.82E
GIN YARD	-	0.00	0.00	0.00	0.00E	1.63	-	0.32	0.43	0.41	-	-	0.00E	0.00E	0.00E	0.00E	-
HANFORD	5.59	0.00	0.00	0.31	0.00	1.99	0.50	0.57	0.64	1.00	0.50	0.08	0.00	0.00	0.00	0.00	5.28
HANFORD WELL #21	5.48	0.00	0.00	0.13	0.00	1.93	0.48	0.62	0.63	1.11	0.50	0.08	0.00	0.00	0.00	0.00E	5.35E
HOMELAND DIST SEC 9	5.12	0.00	0.00	0.02	0.00	1.39	0.52	0.55	1.01	1.20	0.35	0.08	0.00	0.00	0.00	0.00	5.10
HOMELAND DIST SEC 34	4.85	0.00	0.00	0.00	0.00	1.42	0.62	0.32	0.84	1.30	0.33	0.02	0.00	0.00	0.00	0.00	4.85
HURON	5.61E	0.00	0.00	0.13	0.00E	1.76	0.49	0.43	0.78	1.45	0.57	0.00E	0.00E	0.00E	0.00E	0.00E	5.48E
IVANHOE 10	7.90E	0.00	0.00	0.41	0.00	1.88	1.23	1.10	1.02	1.59E	0.49	0.11	0.07	0.00	0.00	0.00	7.49E
KETTLEMAN CITY	5.57	0.00	0.00	0.00	0.02	2.53	0.49	0.70	0.62	0.73	0.45	0.03	0.00	0.00	0.11	0.00	5.68
KETTLEMAN HILLS	4.57	0.00	0.00	0.03	0.00	1.81	0.56	0.39	0.84	0.56	0.38	0.00	0.00	0.00	0.51	0.00	5.05
KETTLEMAN STATION	4.53	0.00	0.00	T	0.02	2.08	0.25	0.33	0.67	0.69	0.49	T	0.00	0.00	0.79	0.00	5.32
LINDSAY	8.94	0.00	0.00	0.58	0.00	2.64	1.20	1.22	0.96	1.62	0.43	0.21	0.08	0.00	0.00	0.00	8.36
LOST HILLS	5.95	0.05	0.00	0.51	0.00	2.11	0.52	0.27	0.61	1.29	0.49	0.10	0.00	0.00	0.00	0.00	5.39
MAGUNDEN	5.75	0.00	0.00	0.30	0.00	1.88	0.60	0.50	0.66	1.07	0.67	0.07	0.00	0.00	0.00	0.00E	5.45E
MARICOPA	5.38E	0.00	0.00E	0.36	0.00	2.58	0.11	0.23	0.75	0.92E	0.43	T	0.00	0.00	T	0.00	5.02E
MENDOTA MURIETTA RCH	5.07	0.00	0.00	0.07	0.00	1.48	0.53	0.55	0.94	1.14	0.25	0.11	0.00	0.00	T	0.00	5.00
MENDOTA HALFWAY PUMP	-	0.00	0.00	0.47	T	1.14	0.48	0.05	RE								
MOODY RCH	5.73	0.00	0.00	0.27	0.00	2.58	0.64	0.44	0.51	0.70	0.37	0.22	0.00	0.00	0.00	0.00	5.46
NORTH BELRIDGE	4.68	0.00	0.00	0.03	0.00	2.08	0.48	0.24	0.48	1.17	0.20	0.00	0.00	0.00	0.00	0.00E	4.65E
OILFIELD FS	5.19E	0.00	0.00	0.16	0.06	1.64	0.47	0.47	0.53	1.28	0.53	0.05	0.00E	0.00E	0.00E	0.00E	5.03E
OLD RIVER 3 W	-	0.00	0.00	0.14	0.00	2.12	0.59	-	-	-	-	-	0.00	0.00	0.00	0.00	-
ORANGE COVE	8.29	0.03	0.00	0.31	0.34	1.60	1.52	1.26	1.05	1.54	0.53	0.11	0.00	0.00	0.00	0.00	7.95
PORTERVILLE	8.82	0.00	0.00	0.79	0.00	2.63	1.29	0.93	1.08	1.56	0.40	0.08	0.06	0.00	0.00	0.00	8.03
PORTERVILLE 3 W	7.40	0.00	0.00	0.64	0.00	2.36	1.00	0.74	0.93	1.27	0.36	0.10	0.00	0.00	0.00	0.00	6.76
POSO CREEK	-			RB	0.00	2.33	0.70	0.28	0.80	1.24	0.35	0.00	0.00	0.00	0.00	0.06	5.76
POSO RCH	4.11	0.00	0.00	0.10	0.00	1.58	0.66	0.54	0.61	0.34	0.28	T	0.00	0.00	0.00	0.00	4.01
RECTOR	6.39	T	0.00	0.18	0.00	1.69	1.13	1.26	0.76	0.74	0.36	0.05	0.22	0.00	0.00	0.00	6.21
REEDLEY MVFD	7.65	0.00	0.00	0.10	0.00	1.72	1.08	1.39	1.36	1.17	0.72	0.11	0.00	0.00	0.00	0.00	7.55
RIVERDALE	5.67	0.00	0.00	0.04	0.03	1.55	0.82	0.43	0.60	1.51	0.53	0.16	0.00	0.00	0.00	0.00E	5.63E
ROSEDALE	5.58	0.00	0.00	0.14	0.00	1.85	0.80	0.51	0.62	1.15	0.41	0.10	0.00	0.00	0.00	0.00	5.44
SAN ENIGDIO RCH	5.14E	0.00	0.00	0.09	0.00	2.33	0.61E	0.87	0.38	0.66	0.10	0.10E	0.00	0.00	0.00	0.00	5.05E
SANGER 1 NE	8.07	T	T	T	T	1.57	1.15	1.66	1.15	1.60	0.69	0.25	0.00	0.02	0.06	0.00	8.15
SANGER R S	-	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
SAN JOAQUIN	5.61	0.00	0.00	0.21	0.00	1.35	1.02	0.63	0.65	0.97	0.64	0.14	0.00	T	0.00	0.00	5.40
SAN JOAQUIN MVFD	3.90	0.00	0.00	0.24	0.00	1.47	0.91	0.06	0.61	0.44	0.00	0.17	0.00	0.00	T	0.00	3.66
SANTIAGO RCH M&L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH BELRIDGE	4.75	0.00	0.00	T	0.00	2.07	0.32	0.25	0.54	1.25	0.27	0.05	0.00	0.00	0.00	0.00E	4.75E
SOUTH LAKE FARM HDQ	5.21	0.00	0.00	0.23	0.00	1.51	0.63	0.42	0.66	1.32	0.41	0.03	0.00	0.00	T	0.00	4.98
STEVENSON DIST SEC 33	4.86	0.00	0.00	0.00	0.00	1.29	0.58	0.74	0.88	0.99	0.31	0.07	0.00	0.00	0.00	0.00	4.86
TEJON RANCHO	8.65	0.00	0.09	0.70	0.00	2.89	1.43	0.95	1.13	0.65	0.50	0.31	0.00	0.00	0.00	0.00	7.86
TRANQUILLITY GLOTZ	5.13	0.00	0.00	0.06	T	1.34	0.75	0.66	0.73	1.09	0.37	0.13	0.00	T	T	0.00	5.07
TULARE	5.90	0.00	0.00	0.17	0.00	1.50	0.71	0.89	0.83	1.36	0.37	0.07	0.00	0.00	0.00	0.00	5.73
TULARE DIST SEC 27	4.50	0.00	0.00	0.21	0.00	1.45	0.51	0.51	0.76	0.68	0.38	0.00	0.00	0.00	0.00	0.00	4.29
TULEFIELD	5.04	0.00	0.00	0.24	0.00	1.98	0.61	0.39	0.56	0.56	0.34	0.36	0.00	0.00	0.00	0.00	4.80
U S COTTON FIELD STN	5.40	0.00	0.00	0.02	0.00	1.58	0.57	0.43	1.18	1.26	0.36	0.00	0.00	0.00	0.00	0.00	5.38
VESTAL	7.05	0.00	0.00	0.13	0.00	2.87	0.86	0.49	0.70	1.44	0.47	0.07	0.02	0.00	T	0.00	6.92
VISALIA	5.72	T	0.00	0.11	0.00	1.45	0.92	1.16	0.87	0.77	0.37	0.07	0.00	0.03	0.01	0.00	5.65
VISALIA 4 E	6.42	0.01	0.00	0.09	0.00	2.02	0.94	1.27	0.88	0.67	0.40	0.13	0.01	T	0.00	0.00	6.32
WASCO	5.25	0.03	0.00	0.05	0.00	1.56	0.76	0.58	0.92	1.11	0.21	0.03	0.00	0.00	0.00	0.00	5.17
WEST CAMP SLF	7.80E	0.00	0.00	0.50	0.00	2.58	0.74E	0.71	1.30	1.49	0.44	0.04E	0.00	0.00	0.00E	0.00	7.30E
WESTHAVEN	4.83	0.00	0.00	0.04	T	1.75	0.45	0.56	0.64	0.82	0.43	0.14	0.00	0.00	0.01	0.00	4.80
WHEELER RDG LWU A-12	-	0.00	0.00	0.53	0.00	2.19	-	-	-	-	-	-	-	-	-	-	-
WILBUR DITCH	5.32E	0.00E	0.00E	0.25	0.00	1.51	0.69	0.39	1.01	0.93	0.45	0.09	0.00	0.00	0.08	0.00	5.15
KINGS RIVER																	
ACADEMY	8.64	0.00	0.00	0.04	0.02	1.75	1.50	1.68	0.99	1.49	0.77	0.40	0.00	0.00	0.00	0.00	8.60
BALCH POWER HOUSE	18.09	T	0.02	0.74	0.00	3.23	3.86	3.49	1.35	2.64	1.54	0.75	0.47	T	0.15	0.00	17.48
BENNER RCH	17.27	0.29	0.00	1.20	0.00	2.84	3.39	2.69	1.57	2.53	1.19	0.70	0.87	T	T	0.00	15.78
BLASINGAME	11.34	0.00	T	0.41	T	1.73	2.34	2.23	1.16	1.83	0.70	0.79	0.15	T	0.01	0.00	10.94
GRANT GROVE	22.40	0.00	0.41	1.92	T	4.24	4.96	3.41	2.10	3.22	1.19	0.72	0.23	T	0.11	0.00	20.18
PINE FLAT DAM	10.84	0.04	T	0.28	T	1.59	2.47	2.46	0.92	1.87	0.82	0.39	0.00	T	0.05	0.00	10.57
PINEHURST	18.82	0.02	0.08	1.56	0.00	3.03	3.81	2.64	2.03	2.75	1.12	0.93	0.85	0.00	0.00	0.00E	17.16E
SQUAW VALLEY FR	12.23	0.00	0.00	0.93	0.00	2.69	1.06	2.21	1.23	2.64	1.00	0.46	0.01	0.00	0.00	0.00E	11.30E
TRIMMER R S	18.07	0.00	0.00	0.45	0.00	5.17	4.41	2.99	1.24	2.01	1.03	0.77	0.00	0.00	0.02	0.00	17.64
WISHON LAKE	26.60	0.45	0.37	2.14	0.17	4.99	5.81	4.81	2.27	3.16	1.53	0.85	0.05	0.05	0.41	0.00	24.10
KAWEAH RIVER																	
ASH MOUNTAIN	17.27	0.00	0.45	1.16	0.00	3.42	2.96	2.77	2.22	2.62	1.25	0.27	0.15	0.10	0.00	0.00	15.76
BADGER	-	0.00	0.00	1.41	0.00	3.50	2.90	2.22	1.73	-	0.85	0.47	-	0.15	0.00	0.00	-
GIANT FOREST	27.53	0.01	0.05	1.95	0.00	5.17	6.71	4.27	3.17	3.76	1.63	0.73	0.08	0.08	0.21	0.00	25.81
KAWEAH PH 3	15.79	0.00	0.16	1.18	0.00	3.13	2.78	2.60	2.15	2.31	0.94	0.31	0.23	0.00E	0.01	0.00	14.46E
LEMON COVE	10.42	0.07	T	1.36	0.00	2.29	1.59	1.48	0.85	1.73	0.50	0.15	0.40	T	0.00	0.00	8.99
MIRAMONTE HONOR CAMP	15.55	T	T	1.36	0.00	2.86	3.34	2.69	1.28	2.60	0.94	0.48	0.00	T	T	0.00	14.19
TERMINUS DAM	10.30	0.04	0.00	1.54	0.00	2.01	1.80	1.44	0.84	1.63	0.61	0.25	0.14	0.00	0.00	0.00	8.72
THREE RIVERS 6 SE	13.83	0.00	0.00	1.08	0.00	3.59	1.94	1.93	1.64	2.14	0.91	0.30	0.30	0.01	0.00	0.00	12.76
THREE RIVERS PH NO 2	14.91	0.00	0.03	1.12	0.00	3.47	2.27	2.24	1.62	2.80	0.69	0.35	0.32	0.06	0.00	0.00	13.82
THREE RIVERS PH NO 1	14.43E	0.00	0.00	1.10	0.00	3.27	2.24	2.20E	1.82	2.54	0.71	0.26	0.29	0.05	0.00	0.00	13.38E
WHITAKER FOREST	21.88	0.02	0.34	1.44	0.00	5.30	1.27	5.59	2.55	3.17	1.28	0.77	0.15	0.02	0.14	0.00	20.24
TULE RIVER																	
CAMP NELSON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEER CREEK RCH														RB	0.00	0.00	
MILO 5 NE	20.70	0.00	0.03	1.68	0.00	*	V7.37	3.49	2.47	3.51	1.01	0.74	0.40	0.08	0.00	0.00	19.08
SPRINGVILLE 7 ENE	19.53	0.00	0.03	1.35	0.00	3.46	3.73	3.39	1.92	3.89	1.41	0.30	0.05	0.00E	0.00	0.00	18.15E
SPRINGVILLE R S	11.57E	0.00	0.00	1.30	0.00	2.69	1.94	1.32	1.16	1.98	0.88	0.26E	0.04	0.00	0.00	0.00	11.57E
SPRINGVILLE TULE HDW	-	0.00	0.25	1.72	0.00	-	4.25	4.97	-	4.07	-	0.57	0.11	0.06	0.00	0.00	-
SUCCESS DAM	9.21	0.00	0.00	0.75	0.00	2.19	1.29	0.97	1.28	1.75	0.88	0.07	0.03	0.00	0.00	0.00	8.46
TULE RIVER INTAKE	19.69	0.00	0.00	1.75	0.00	2.46	3.89	4.29	1.53	3.99	1.40	0.31	0.07	0.00E	0.00	0.00	17.94E
TULE RIVER PH	15.28	0.01	T	1.77	0.00	2.88	2.55	1.96	2.10	2.76	0.99	0.19	0.07	0.00E	0.00	0.00	13.50E
UHL R S	-	0.00	0.00	2.91	0.00	2.52	3.53	2.89	-	3.57	2.00	-	0.00	0.37	0.00	0.00	-

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1967						1968									TOTAL OCT 1 TO SEPT 3
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
GREENHORN MTN																	
GLENVILLE	13.90	0.00	0.00	1.30	0.00	2.08	2.70	2.09	1.79	2.34	1.50	0.10	0.00	0.10	0.00	0.00E	12.70E
GLENVILLE FULTON R S	-	0.00	0.00	1.37	0.00	2.46	-	-	-	-	-	0.10	0.00	0.05	0.00	0.00	-
POSEY 3 E	21.56	0.00	0.12	1.86	0.00	2.78	4.51	3.06	2.35	3.75	2.63	0.50	0.00	0.00	0.00	0.00	19.58
WOODY	10.70	0.00	0.00	0.59	0.00	3.10	1.58	1.33	1.81	1.27	0.94	0.06	0.02	T	0.00	0.00	10.11
KERN RIVER																	
ISABELLA DAM	9.47	0.30	0.23	1.63	0.00	1.41	1.85	0.82	0.85	1.60	0.77	0.01	0.00	0.01	0.11	0.00	7.43
JOHNSONDALE	19.64E	0.12	0.37	2.01E	0.00	3.67	3.72	2.69E	1.87E	3.80	1.29	0.10	0.00	0.20	0.01	0.00	17.35E
KERN CANYON	8.30	0.00	*	V1.00	0.00	2.41	1.30	0.81	0.81	1.13	0.78	0.06	0.00	0.11	0.00	0.00	7.41
KERN R 3 INTAKE SCE	15.30	0.00	0.16	2.10	0.05	3.21	2.99	1.72	1.16	2.71	1.20	0.00	0.00	0.41	0.05	0.00	13.50
KERN RIVER PH NO 1	8.85	0.02	0.00	0.25	0.00	2.60	1.68	1.06	0.99	1.21	0.99	0.05	0.00	0.11	0.00	0.00	8.69
KERN RIVER PH NO 3	11.35	0.80	0.13	1.21	0.00	2.43	2.27	1.23	0.80	1.78	0.69	0.01	0.00	0.26	T	0.00	9.47
ONYX	9.62	0.73	0.32	0.92	0.00	2.10	1.85	0.62	0.65	1.66	0.77	0.00	0.00	0.08	0.00	0.00	7.73
TEN HIGH MINE														RB	0.00	0.00	-
WELDON 1 WSW	6.96	0.10	0.00	0.91	0.00	1.68	1.34	0.54	0.57	1.17	0.65	0.00	0.00	0.18	0.10	0.00	6.23
WOFFORD HEIGHTS	9.50	0.12	0.13	1.20	0.00	2.01	1.93	0.99	0.92	1.57	0.61	0.02	0.00	0.14	T	0.00	8.19
TEHACHAPI MOUNTAINS																	
CHUCHAPATE R S	8.73	0.18	0.03	0.73	0.00	3.60	0.79	0.5	0.7	1.4	0.6	0.2	0.00	0.00	0.1	0.00	7.89
CUMMINGS VALLEY 2	8.75	0.00	0.00	1.01	0.00	1.98	1.86	0.54	1.28	1.16	0.81	0.11	0.00	0.00	0.00	0.00	7.74
KEENE	10.38	0.01	T	0.20	0.00	2.37	2.42	1.30	1.13	1.44	0.88	0.63	0.00	0.03	0.00	0.00E	10.20E
LEBEC	9.74	0.05	0.00	0.77	0.00	4.17	0.71	0.44	0.55	1.77	0.98	0.30	0.00	0.01	0.16	0.00	9.09
LORAINE	10.52	1.01	0.00	0.39	0.00	2.20	2.40	1.57	0.60	1.22	1.01	0.12	0.00	0.08	0.00	0.00	9.20
MIL POTRERO	8.95	0.12	2.32	0.10	0.00	3.15	0.31	0.48	1.19	0.59	0.59	0.10	T	0.07	0.21	0.00	6.69
PATTIWAY	5.93	0.00	0.01	0.03	0.00	2.72	0.71	0.38	0.50	0.84	0.68	0.06	T	T	T	0.00	5.89
TEHACHAPI	9.89E	T	0.06	2.13	0.00	2.73	1.89	0.59	0.63	1.36	0.40	0.10E	0.00E	0.17E	0.00	0.00	7.87E
TEHACHAPI AP	9.52E	0.00	0.00	1.97	0.00	2.70	1.81E	0.46	0.78	1.14	0.51	0.15	0.00	0.20E	0.00	0.00E	7.75E
WALKER BASIN														RB	0.00	0.00	
TULARE L BASIN WESTSIDE																	
ANNETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AVENAL 8 SW	7.33	0.00	0.00	0.71	0.15	1.79	0.82	0.97	0.71	1.38	0.80	0.00	0.00	0.00	T	0.00	6.62
AVENAL 6 SSW	8.04	0.00	0.00	1.01	0.08	2.09	0.82	0.91	0.84	1.31	0.98	0.00	0.00	0.00	0.00	0.00	7.03
CHOLAME TWISSELMAN	8.76E	0.00E	0.00E	0.68	0.00	2.16	1.73	0.58	1.04	1.92	0.65	0.00	0.00	0.00	0.00	0.00	8.08
COALINGA ROBERTS RCH	7.02	0.00	0.00	0.36	0.13	1.62	0.50	0.60	0.78	1.43	1.42	0.18	0.00	0.00	0.00	0.00	6.66
COALINGA 14 WNW	7.78	0.00	0.00	0.22	0.00	2.20	1.20	1.06	1.20	1.03	0.82	0.05	0.00	0.00	0.00	0.00	7.56
DOMENGINE RCH	6.08	0.00	0.00	0.24	T	1.31	0.70	0.63	1.05	1.26	0.58	0.31	0.00	T	T	0.00	5.84
DOMENGINE SPRINGS	-	-	-	-	0.00E	2.45	0.90	0.46	1.25	1.55	1.27	0.05	0.00	0.00	0.00E	0.00E	7.93
FELLOWS	4.47	0.00	0.00	0.00	0.00	2.08	0.29	0.15	0.44	1.05	0.39	0.02	0.05	0.00E	0.00E	0.00E	4.47E
MARICOPA P S	5.11	0.00	0.00	0.20	0.00	2.61	0.17	0.20	0.82	0.76	0.34	0.01	0.00	0.00	0.00	0.00	4.91
MARTINEZ SPRING	-	-	-	-	0.00E	1.99	0.83	0.49	1.52	1.13	0.88	0.05	0.00	0.00	0.00E	0.00E	6.89E
MC KITTRICK P S	3.45	0.00	0.00	0.10	0.00	1.28	0.25	0.07	0.55	0.82	0.35	0.03	0.00	0.00	0.00	0.00	3.35
TAFT	3.90	0.00	0.00	0.18	0.00	1.86	0.25	0.12	0.52	0.74	0.23	0.00	0.00	0.00	0.00	0.00	3.72
TAFT KTKR	4.27	0.00	T	0.34	0.00	1.89	0.27	0.13	0.54	0.85	0.23	T	0.02	T	T	0.00	3.93
THIRTY-TWO CORRAL	-	-	-	-	0.00	1.70	0.77	0.98	1.08	1.29	0.70	0.08	0.00	0.00	0.00E	0.00E	6.60E
UPPER SALINAS RIVER																	
PARKFIELD 7 NNW	7.19E	0.00	0.00	1.05	0.16	1.60	0.71	0.55	0.82	1.57E	0.50	0.23	0.00	0.00	0.06	0.00	6.20

TABLE A-3

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1967-68 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	7-19-67	7-10-68	29.2
LAKE ALPINE	DEPT OF WATER RESOURCES	7-19-67	7-10-68	43.8
TUOLUMNE RIVER				
BEEHIVE MEADOW	HETCH HETCHY WATER SUPPLY	9- 6-67	9-27-68	34.90
GRACE MEADOW	HETCH HETCHY WATER SUPPLY	9- 5-67	10- 6-68	27.71
HUCKLEBERRY LAKE	HETCH HETCHY WATER SUPPLY	8-31-67	10- 8-68	38.84
LOWER KIBBEY RIDGE	HETCH HETCHY WATER SUPPLY	8-25-67	10-11-68	42.90
PARADISE MEADOW	HETCH HETCHY WATER SUPPLY	9- 6-67	10- 4-68	39.30
SACHES SPRINGS	HETCH HETCHY WATER SUPPLY	8-25-67	10-11-68	41.89
TUOLUMNE MEADOWS	DEPT OF WATER RESOURCES	7-18-67	7- 9-68	25.0
MERCED RIVER				
BADGER PASS	U S WEATHER BUREAU	-	-	-
OSTRANDER LAKE	NATIONAL PARK SERVICE	10- 8-67	8-18-68	17.85
SNOW FLATS	DEPT OF WATER RESOURCES	7-18-67	7- 9-68	38.9
SAN JOAQUIN RIVER				
CHIQUITO CREEK	DEPT OF WATER RESOURCES	7-17-67	7- 8-68	30.1
CLOVER MEADOWS	DEPT OF WATER RESOURCES	7-17-67	7- 8-68	31.6
KAISER MEADOWS	SO CALIF EDISON COMPANY	8- 3-67	9-19-68	30.5
MAMMOTH POOL	SO CALIF EDISON COMPANY	8- 8-67	9-24-68	19.9
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	10-12-67	9-27-68	23.6
VERMILION VALLEY	SO CALIF EDISON COMPANY	8- 3-67	9-20-68	17.2
TULARE LAKE BASIN				
KINGS RIVER				
BARTON FLAT	U S CORPS OF ENGINEERS	9-21-67	7- 8-68	11.87
DUSY BENCH	U S CORPS OF ENGINEERS	9-12-67	9- 9-68	20.93
MITCHELL MEADOW	U S CORPS OF ENGINEERS	9-20-67	7-11-68	19.33
MORAINE CREEK	U S CORPS OF ENGINEERS	9-20-67	10- 9-68	17.44
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-19-67	10- 8-68	26.81
STATE LAKES	U S CORPS OF ENGINEERS	9-20-67	10- 8-68	20.32
SUMMIT MEADOW	U S CORPS OF ENGINEERS	7-26-67	9-30-68	28.33
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-20-67	10- 9-68	21.70
UPPER WOODCHUCK	FRESNO STATE COLLEGE	7-27-67	-	-
KAWEAH RIVER				
ATWELL	U S CORPS OF ENGINEERS	10-20-67	10- 8-68	24.45
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	9-20-67	7-10-68	27.19
HOCKETT MEADOW	U S CORPS OF ENGINEERS	10-17-67	10- 7-68	23.51
MINERAL KING	U S CORPS OF ENGINEERS	10-20-67	10- 8-68	18.89
PEAR LAKE	U S CORPS OF ENGINEERS	7-25-67	7- 9-68	26.75
TULE RIVER				
EAGLE CREEK	U S CORPS OF ENGINEERS	10-19-67	10- 9-68	21.45
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	7-13-67	7-12-68	30.67
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	7-13-67	7-13-68	24.61
ROGERS CAMP	U S CORPS OF ENGINEERS	7-12-67	7-13-68	25.13

- Record missing for this period.

TABLE A-3 (Cont.)

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1967-68 Season		
		Measurement Period		Precipitation In Inches
KERN RIVER				
CHAGOOPA	U S CORPS OF ENGINEERS	10-17-67	10- 8-68	17.99
CRABTREE MEADOW	U S CORPS OF ENGINEERS	9-14-67	9- 6-68	18.11
DOUBLEBUNK MEADOW	U S CORPS OF ENGINEERS	7-11-67	6-11-68	28.95
MONACHE MEADOW	U S CORPS OF ENGINEERS	9-14-67	9-14-68	11.40
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	7-10-67	7-10-68	34.05
QUAKING ASPEN	U S CORPS OF ENGINEERS	7-11-67	7-11-68	29.06
ROUND MEADOW	U S CORPS OF ENGINEERS	7-11-67	7-11-68	30.73
TUNNEL R S	DEPT OF WATER RESOURCES	9-14-67	9-14-68	16.62
WET MEADOW	U S CORPS OF ENGINEERS	10-18-67	10- 7-68	23.88
TULARE LAKE BASIN WESTSIDE				
OILFIELD JOAQUIN RDG	DEPT OF WATER RESOURCES	7-25-67	7-29-68	6.98

TABLE A-4

TEMPERATURE DATA

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

Max	The highest temperature of record for the month.
Min	The lowest temperature of record for the month.
Av Max	The arithmetical average of daily maximum temperatures for the month.
Av Min	The arithmetical average of daily minimum temperatures for the month.
Avg	The arithmetical average of daily maximum and minimum temperatures for the month.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

TABLE A-4

TEMPERATURE DATA

TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME		1967						1968								
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
SAN JOAQUIN R BASIN																
SAN JOAQUIN VAL FL																
CASTLE AFB	MAX	106	103	94	85	79	61	65	73	81	89	94	101	104	102	94
	MIN	54	58	56	43	36	19	23	34	34	33	39	49	55	52	44
	AV MAX	96.9	96.3	87.4	78.6	65.2	51.7	51.4	61.6	65.8	73.8	78.9	90.1	93.8	87.8	85.6
	AV MIN	63.8	64.9	60.1	49.6	46.8	31.9	34.1	45.9	42.0	43.4	50.6	58.9	62.3	58.6	55.3
	AVG	80.4	80.6	73.7	64.1	56.0	41.8	42.7	53.8	53.9	58.6	64.7	74.5	78.0	73.2	70.4
OENAIR CMANCE	MAX	104	102	94	86	80	71	70	76	85	91	94	105	104	101	98
	MIN	52	53	54	39	30	19	20	34	31	33	36	44	51	48	40
	AV MAX	97.0	96.6	90.7	79.5	62.9	55.7	54.2	65.1	68.2	75 M	79.7	91.1	95.6	89.9	89.5
	AV MIN	59.9	60.6	59.3	42.8	42.1	30.4	32.3	43.6	40.4	42 M	47.5	54.5	57.7	54.8	51.2
	AVG	78.4	78.6	75.0	61.1	52.5	43.0	43.2	54.4	54.3	58 M	63.6	72.8	76.6	72.3	70.4
LIVINGSTON 5 W	MAX	106	105	101	90	82	63	65	75	87	93	98	103	105	103	97
	MIN	50	52	53	37	33	22	21	32	36	36	39	43	52	49	40
	AV MAX	98.7	99.0	91.8	81.7	68.3	55 M	53 M	63.5	68.8	77.1	82.1	93 M	97 M	90.8	89.3
	AV MIN	60.2	60.2	57.0	44.4	43.1	30 M	31 M	43.8	41.6	42.8	46.6	54 M	58 M	54.6	50.4
	AVG	79.4	79.6	74.4	63.0	55.7	42 M	42 M	53.6	55.2	60.0	64.3	73 M	77 M	72.7	69.8
LOS BANOS FIELD STA	MAX	105	105	M	89	81	64	66	74	M	90	95	102	104	100	101
	MIN	54	58	M	44	35	28	23	35	M	38	41	46	54	50	45
	AV MAX	M	99 M	M	82 M	M	M	55 M	63 M	M	77 M	81 M	92 M	97 M	84 M	90
	AV MIN	M	64 M	M	50 M	M	M	31 M	45 M	M	47 M	50 M	59 M	60 M	54 M	54
	AVG	M	82 M	M	66 M	M	M	43 M	54 M	M	62 M	66 M	75 M	78 M	69 M	72
MERCEO 5 SE	MAX	108	102	101	88	81	63	66	75	80	88	91	102	102	RE	
	MIN	51	54	52	37	34	13	19	30	30	33	36	42	52	RE	
	AV MAX	99.2	96.7	90.4	80.9	68.8	52.0	49.2	62.2	64.8	72.2	78.1	94 M	94.5	RE	
	AV MIN	60.4	61.7	57.1	43.6	43.4	29.4	31.0	42.1	37.3	39.2	47.0	46 M	57.5	RE	
	AVG	79.2	79.9	73.8	62.3	56.1	46.7	40.0	52.2	51.0	55.7	62.6	70 M	76.0	RE	
MOOESTO KTRB	MAX	103	103	98	89	81	65	67	75	85	90	95	102	104	100	100
	MIN	54	57	53	40	33	24	23	32	33	36	40	48	52	50	44
	AV MAX	96.3	96.0	89.6	80.4	67.6	54.9	53.1	63.9	68.9	75.5	80.4	90.3	93.8	87.7	87.6
	AV MIN	60.9	62.3	59.0	48.2	44.3	31.8	33.4	46.2	42.1	44.1	49.6	56.9	59.3	56.0	54.0
	AVG	78.6	79.1	74.3	64.3	55.9	43.3	43.2	55.0	55.5	59.8	65.0	73.6	76.5	71.8	70.8
SNELLING	MAX	108	105	96	90	85	64	64	78	82	90	96	103	104	104	95
	MIN	56	53	51	40	31	15	26	38	31	34	40	47	54	48	38
	AV MAX	99.0	99.0	89.6	81.3	66.6	54.0	53 M	64.5	66.9	74.1	79.8	91.9	97 M	89.7	87.3
	AV MIN	61.3	60.8	57.6	45.4	44.2	30.0	34 M	45.2	41.1	40.9	47.2	56.2	60 M	55.7	51.4
	AVG	80.1	79.9	73.6	63.4	55.4	42.0	44 M	54.8	54.0	57.5	63.5	74.0	78 M	72.7	69.4
WESTLEY	MAX	106	107	98	92	85	65	65	75	85	93	94	102	104	97	92
	MIN	53	55	52	45	32	26	21	36	39	39	39	42	54	50	48
	AV MAX	99.2	98.3	90.8	83.1	68.8	55 M	55 M	62.1	68.8	77 M	79.4	92 M	93 M	84.7	85.4
	AV MIN	61.3	61.5	58.8	51.2	46.8	34 M	32 M	46.9	45.0	48 M	49.5	57 M	59 M	55.0	53.8
	AVG	80.2	79.9	74.8	67.1	57.8	44 M	44 M	54.5	56.9	62 M	64.4	74 M	76 M	69.8	69.6
STANISLAUS RIVER																
ANCELS CAMP	MAX	104	105	100	90	85	71	73	78	80	86	91	101	105	103	98
	MIN	48	51	50	36	30	18	18	18	26	26	32	38	49	42	35
	AV MAX	99.1	97.3	90.9	81.2	69.2	55.8	57.6	65.8	66.2	73.1	78.6	91.6	97.2	89.8	88.9
	AV MIN	57.4	60.0	54.6	42.3	40.1	28.1	28.0	38.3	36.3	36.0	43.2	51.3	56.4	52.0	48.3
	AVG	78.2	78.6	72.7	61.7	54.6	41.9	42.8	52.0	51.2	54.6	60.9	71.4	76.8	70.9	68.6
BEAR VALLEY-ALPINE	MAX		RB	76	73	70	M	M	M	M	M	M	M	83	81	81
	MIN		RB	29	19	6	M	M	M	M	M	M	M	32	26	20
	AV MAX		RB	68.1	64 M	50 M	M	M	M	M	M	M	M	74.8	66.1	68.0
	AV MIN		RB	36.4	27 M	22 M	M	M	M	M	M	M	M	40.2	36.0	31.7
	AVG		RB	52.2	46 M	36 M	M	M	M	M	M	M	M	57.5	51.0	49.8
HUNTERS OAM	MAX	98	98	91	84	79	68	75	74	74	78	85	93	98	98	94
	MIN	45	46	45	32	28	10	13	22	26	26	30	36	46	36	32
	AV MAX	91.3	89.3	83.9	74.5	64.3	52.4	54.4	59.3	60.2	64.9	70.5	82.9	90.0	82.5	83.5
	AV MIN	64.2	52.1	49.5	38.5	36.5	24.9	26.7	34.3	31.8	33.5	38.4	47.1	52.9	48.2	45.1
	AVG	77.7	70.7	66.7	56.5	50.4	38.6	40.5	46.8	46.0	49.2	54.4	65.0	71.4	65.4	64.3
PINECREST STRAWBERRY	MAX	90	90	82	82	80	62	68	74	70	74	80	90	88	88	84
	MIN	46	46	40	30	22	8	8	22	14	20	24	34	44	32	28
	AV MAX	83.5	84.5	76 M	71.4	60.5	41 M	50.4	52.3	54.3	59.7	65.1	78.1	82.6	75.0	77.1
	AV MIN	52.4	52.3	46 M	38.0	33.5	20 M	24.0	30.2	26.3	28.9	35.2	44.6	50.4	46.0	43.2
	AVG	67.9	68.4	61 M	54.7	47.0	30 M	37.0	82.4	40.3	44.3	50.1	61.4	66.5	60.5	60.2
STANISLAUS P H	MAX	104	107	102	92	87	66	70	80	81	88	93	105	107	107	107
	MIN	56	59	52	43	36	22	24	30	32	31	40	46	57	48	34
	AV MAX	99.5	101.6	92.5	84.0	72.1	53.2	58.4	66.5	68.5	74 M	79 M	91.9	98.2	90.9	92.1
	AV MIN	62.2	66.6	59.3	48.4	43.9	31.1	32.7	42.7	40.9	41 M	48 M	57.6	63.5	58.4	55.1
	AVG	80.8	84.1	75.9	66.2	58.0	42.2	45.6	54.6	54.7	58 M	64 M	74.7	80.8	74.6	73.6
TUOLUMNE RIVER																
OON PEORO RESERVOIR	MAX	107	107	98	90	83	63	70	74	81	91	95	103	108	104	97
	MIN	53	54	46	35	28	17	19	28	28	29	34	42	51	44	38
	AV MAX	100.4	101 M	92.1	82.8	68.7	54 M	54.0	63.2	66.2	74.6	80.5	94 M	98.4	91.5	89.8
	AV MIN	61.0	63 M	55.9	44.5	40.2	23.9	26.9	37.9	36.7	39.0	44.3	53.7	59.4	53.0	48.6
	AVG	80.7	82 M	74.0	63.6	54.5	39 M	40.5	50.6	51.5	56.8	62.4	70 M	78.9	72.2	69.2
HODGDON MEADOW	MAX	93	94	87	81	78	52	56	69	70	74	81	91	92	92	91
	MIN	37	39	37	27	22	02	00	12	18	18	26	32	37	29	25
	AV MAX	87.2	88.7	79.2	72.6	60.5	40.9	45.7	53.9	56.4	61.4	65.8	78.5	86.0	78.4	81.7
	AV MIN	46.0	46.5	42.7	32.4	31.5	17.0	18.6	28.0	27.0	29.1	34.2	40.1	45.2	40.8	37.2
	AVG	66.6	67.6	60.9	52.5	46.0	28.9	32.2	41.0	41.7	45.2	50.0	59.3	65.6	59.6	59.4
MERCED RIVER																
COULTERVILLE FFS	MAX	M	105	98	87	82	M	71	M	M	M	M	M	104	101	99
	MIN	M	59	51	44	34	M	18	M	M	M	M	M	53	47	39
	AV MAX	M	99 M	90 M	80 M	72 M	M	56 M	M	M	M	M	M	M	87 M	84
	AV MIN	M	71 M	61 M	52 M	48 M	M	33 M	M	M	M	M	M	M	60 M	53
	AVG	M	85 M	76 M	66 M	60 M	M	44 M	M	M	M	M	M	M	74 M	68
HORNITOS GILES RCH	MAX	105	104	94	88	80	62	64	72	78	88	93	100	102	102	94
	MIN	58	60	57	42	35	20	26	36	36	33	38	42	56	50	44
	AV MAX	97.6	99.1	89.2	79.6	65.5	52.0	51.9	61.9	63.9	71.7	78.1	90.3	95.2	89.0	86.6
	AV MIN	67.7	68.5	62.9	51.5	47.1	32.1	34.9	45.9	43.2	44.3	49.6	58.2	65.1	59.8	57.6
	AVG	82.6	83.8	76.0	65.6	56.3	42.0	43.4	53.9	53.5	58.0	63.8	74.2	80.1	74.4	72.1

TABLE A-4 (Cont.)

TEMPERATURE DATA

TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME		1967						1968								
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
FRESNO - CHOWCHILLA R																
AHWAHNEE 2 NNW	MAX	98	100	92	86	80	68	70	76	62	82	90	98	100	98	94
	MIN	64	64	54	48	34	24	22	32	32	34	34	40	62	48	44
	AV MAX	93.7	95.9	86.0	77 M	68 M	51.2	62.9	60.6	58 M	68 M	73.4	86.1	92.2	85.4	84.6
	AV MIN	69.6	70.8	62.8	53 M	48 M	33.0	36.6	43.6	40 M	45 M	51.5	61.1	67.7	61.5	59.9
	AVG	81.6	83.3	74.4	65 M	58 M	42.1	49.7	52.1	49 M	57 M	62.4	73.6	79.9	73.4	72.2
CATHEYS VAL BULL RUN R.	MAX	104	105	101	87	81	66	70	71	78	88	94	103	105	103	99
	MIN	53	70	52	40	32	14	18	32	31	30	34	41	55	46	42
	AV MAX	98.3	99.9	90.9	79.9	68.2	52.4	54.9	62.6	61.4	79.9	81.6	91.4	97.0	90.0	88.9
	AV MIN	61.4	62.7	57.3	45.5	43.1	29.6	31.8	42.6	40.0	40.1	47.8	56.0	62.4	57.3	54.4
	AVG	79.8	81.3	74.1	62.7	53.8	41.0	43.4	52.6	52.0	55.5	64.7	73.7	79.7	73.7	71.6
CATHEYS VAL SAWYER RCH	MAX	106	105	97	88	81	52	68	72	78	86	92	101	104	102	95
	MIN	52	55	52	41	32	15	20	32	30	30	33	39	53	45	40
	AV MAX	99.5	101.0	90.3	79.5	66.0	51.8	52.6	61.3	62.8	70.3	76.7	89.6	95.0	87.3	84.9
	AV MIN	64.9	64.6	58.5	47.0	43.3	29.3	31.8	42.3	39.5	40.7	45.6	55.7	61.6	56.1	53.3
	AVG	82.2	82.8	74.4	63.2	54.6	40.5	42.2	51.8	51.1	55.5	61.1	72.6	78.3	71.7	69.1
CATHEYS VAL STONHOUSE	MAX	103	103	95	85	80	65	65	71	76	86	92	101	103	100	94
	MIN	51	51	50	36	29	11	16	27	28	26	31	39	50	43	36
	AV MAX	M	98 M	88 M	79.1	M	51.7	55.0	61.5	62.9	70.1	M	87.9	96 M	86 M	86.4
	AV MIN	M	59 M	56 M	41.9	M	25.8	27.9	39.4	36.0	36.5	M	46.2	58 M	51 M	48.9
	AVG	M	78 M	72 M	60.5	M	38.7	41.4	50.4	49.4	53.3	M	67.0	77 M	68 M	67.6
HIDDEN VALLEY	MAX	105	105	100	90	86	74	78	76	83	85	94	105	105	106	101
	MIN	58	60	56	43	34	16	24	32	32	34	37	43	58	48	43
	AV MAX	99.0	101.0	91.9	83 M	70.5	57.1	59.9	65 M	67.2	73.9	81.2	93.6	99 M	93.3	92.5
	AV MIN	66.8	68.0	61.2	51 M	44.0	31.1	33.2	42 M	40.4	43.6	47.1	57.6	61 M	58.3	55.8
	AVG	82.9	84.5	76.5	67 M	57.2	44.1	46.6	53 M	53.8	58.7	64.2	75.6	80 M	75.8	74.2
MARIPOSA 8 ESE	MAX	96	98	M	M	78	67	70	68	74	80	89	100	101	94	M
	MIN	52	54	M	M	27	12	14	30	26	32	31	37	54	40	M
	AV MAX	92 M	93.4	M	M	65.5	51.1	54.0	59.9	60.6	M	73.5	85.5	96 M	86 M	M
	AV MIN	59 M	61.8	M	M	40.4	26.5	30.3	38.6	35.3	M	43.6	51.6	60 M	53 M	M
	AVG	76 M	77.6	M	M	52.9	38.8	42.1	49.2	47.9	M	58.5	68.5	78 M	70 M	M
OAKHURST	MAX	100	101	98	88	83	68	71	76	75	82	90	100	M	M	96
	MIN	42	42	41	28	24	06	10	21	21	21	28	34	M	M	29
	AV MAX	96.5	96.2	89 M	81 M	73 M	50.9	52.3	63.5	62.7	96.9	75.9	87 M	M	M	88 M
	AV MIN	51.8	50.8	47 M	35 M	34 M	21.8	23.4	33.7	30.7	33.5	37.2	48 M	M	M	41 M
	AVG	74.2	73.5	68 M	58 M	54 M	36.3	37.8	48.6	46.7	65.2	56.5	68 M	M	M	64 M
TRIANGLE - YORK	MAX	98	99	94	83	78	62	69	69	74	80	84	92	97	92	94
	MIN	47	50	40	34	25	10	10	25	24	26	32	34	50	38	34
	AV MAX	92 M	98 M	M	75.8	65.7	47 M	54.3	59 M	59 M	65 M	70 M	82 M	M	80.5	84 M
	AV MIN	56 M	60 M	M	40.1	36.5	23 M	27.3	35 M	32 M	35 M	41 M	50 M	M	48.2	44 M
	AVG	74 M	79 M	M	57.9	51.1	35 M	40.8	47 M	46 M	50 M	56 M	66 M	M	64.3	64 M
SAN JOAQUIN RIVER																
CRANE VALLEY P H	MAX	98	102	96	87	77	66	70	74	74	78	90	98	100	95	93
	MIN	60	62	52	40	32	18	20	29	30	32	32	48	60	48	42
	AV MAX	92.3	98.3	85.9	77.6	66.9	50.3	54.8	60.4	60.2	67.0	72.7	85 M	92.4	65 M	85.1
	AV MIN	64.6	68.1	58.9	48.8	43.2	30.1	30.8	38.3	37.9	41.5	48.5	61 M	67.1	60 M	57.1
	AVG	78.4	83.2	72.4	63.2	55.0	40.2	42.8	49.3	49.0	54.2	60.6	73 M	79.8	62 M	71.1
MEADOW LAKE	MAX	95	93	90	79	75	65	67	70	68	78	80	90	92	90	90
	MIN	60	64	48	44	28	14	14	26	20	30	29	40	56	42	42
	AV MAX	89.9	89.5	78.7	70.9	62.0	45.6	50 M	54.2	53.1	59.2	64.8	77.3	84.7	78.6	78.9
	AV MIN	68.3	68.7	59.2	51.3	45.5	30.4	33 M	40.0	37.9	41.7	47.9	58.7	64.2	57.8	58.0
	AVG	79.1	79.1	68.9	61.1	53.7	38.0	42 M	47.1	45.5	50.4	56.3	68.0	74.4	68.2	68.4
SAN JOAQ VAL WESTSIDE																
CASTLE ROCK RAD LAB	MAX	109	115	102	93	90	78	80	79	88	95	101	110	113	109	103
	MIN	58	55	57	41	27	22	15	31	30	41	41	52	55	47	48
	AV MAX	102.1	104.4	94.4	85.3	73.6	62.2	61.2	67.8	71.6	79.3	82.7	95.1	99.6	92.0	92.5
	AV MIN	67.5	66.5	62.9	48.7	43.2	32.2	29.2	43.4	41.8	46.2	52.5	61.4	62.7	59.9	58.9
	AVG	84.8	85.4	78.6	67.0	58.4	47.2	45.2	55.6	56.7	62.7	67.1	78.2	81.1	75.9	75.7
DEL PUERTO ROAD CAMP	MAX	106	M	M	M	M	M	72	M	M	M	M	M	M	M	M
	MIN	50	M	M	M	M	M	20	M	M	M	M	M	M	M	M
	AV MAX	100.3	M	M	81 M	M	64 M	54.7	M	M	M	M	M	M	M	M
	AV MIN	60.1	M	M	46 M	M	34 M	33.9	M	M	M	M	M	M	M	M
	AVG	80.2	M	M	63 M	M	44 M	44.3	M	M	M	M	M	M	M	M
TULARE LAKE BASIN																
TULARE LAKE VAL FL																
ARVIN	MAX	105	107	98	91	82	67	78	78	86	94	96	103	103	102	97
	MIN	62	62	59	41	35	26	28	33	36	38	44	53	61	51	43
	AV MAX	100.3	100.8	90.8	81.7	70.8	55.3	59.3	69.3	71.8	79.3	82.8	93.5	98.4	91.8	90 M
	AV MIN	68.2	69.2	63.5	50.2	47.4	33.8	35.3	47.5	45.1	47.4	53.2	61.1	66.6	61.2	57 M
	AVG	84.2	85.0	77.1	65.9	59.1	44.5	47.3	58.4	58.4	63.4	68.0	77.3	82.5	76.5	73 M
AVENAL WALDEN	MAX	111	109	100	89	82	64	70	RE							
	MIN	64	67	61	47	35	25	29	RE							
	AV MAX	105.2	104.3	93.0	84.8	68 M	54.2	56 M	RE							
	AV MIN	69.9	71.4	65.9	56.3	49.9	35.2	36 M	RE							
	AVG	87.5	87.8	79.4	70.5	59 M	44.7	46 M	RE							
CARUTHERS 4 E	MAX	108	109	106	90	85	64	68	75	86	94	100	105	103	104	102
	MIN	51	53	52	37	29	17	22	33	34	33	36	43	52	48	37
	AV MAX	101 M	101.6	93 M	83 M	70 M	53 M	53.9	64.2	68 M	79 M	83 M	96 M	98 M	93 M	88 M
	AV MIN	59 M	60.2	57 M	44 M	42 M	28 M	31.1	43.4	40 M	42 M	48 M	55 M	60 M	55 M	48 M
	AVG	80 M	80.9	75 M	64 M	56 M	40 M	42.5	53.8	54 M	60 M	66 M	76 M	79 M	74 M	68 M
CORCORAN EL RICO 1	MAX	109	108	98	90	85	66	67	76	83	92	97	104	107	104	101
	MIN	56	61	55	39	32	22	23	34	34	34	38	49	54	50	41
	AV MAX	101.5	102.0	91.7	82.0	45.0	31.4	53.9	63.8	68 M	75.8	80.4	93.0	99.6	93.2	91.0
	AV MIN	63.4	64.2	60.6	46.6	68.5	52.2	33.9	45.9	42 M	42.8	48.1	56.5	61.7	57.9	54.3
	AVG	82.4	83.1	76.1	64.3	56.7	41.8	43.9	54.8	55 M	59.3	64.2	79.7	80.6	75.5	72.6
COALINGA FEED YARDS	MAX	107	110	100	90	82	64	74	M	M	RE					
	MIN	60	64	60	44	34	18	24	M	M	RE					
	AV MAX	103.5	104 M	89 M	84 M	66 M	53 M	56 M	M	M	RE					
	AV MIN	67.5	69 M	64 M	48 M	44 M	32 M	32 M	M	M	RE					
	AVG	85.5	86 M	76 M	66 M	55 M	48 M	44 M	M	M	RE					

TABLE A-4 (Cont.)

TEMPERATURE DATA

TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME		1967						1968								
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP
OELANO GOV'T CAMP	MAX											RB	102	105	99	97
	MIN											RB	52	59	50	44
	AV MAX											RB	92.5	96.3	89.5	89.0
	AV MIN											RB	61.4	65.4	60.2	56.9
	AVG											RB	77.0	80.8	74.8	73.0
DEVILS DEN SLF	MAX	112	108	102	92	86	64	58	72	84	96	M	106	108	106	106
	MIN	60	62	52	44	38	20	24	36	34	38	M	50	58	50	40
	AV MAX	104.5	105.3	96.0	82.1	70.2	53.9	47.9	63.9	63.3	74.9	M	102.4	102.3	99.7	96.4
	AV MIN	66.7	67.3	61.7	50.9	45.9	29.0	35.8	44.6	45.1	46.2	M	62.2	64.5	57.2	51.8
	AVG	85.6	86.3	78.8	66.5	58.0	41.4	41.8	54.2	54.2	60.6	M	82.3	83.4	78.4	74.1
DIGIORGIO	MAX	112	110	100	96	88	67	75	76	86	94	96	105	105	105	100
	MIN	62	62	58	40	36	22	29	34	36	36	42	50	58	51	44
	AV MAX	104.4	105.1	93.7	84.9	69.5	54.7	57.1	65.9	69.6	76.7	81.8	93.1	99.3	93.5	92.2
	AV MIN	69.0	69.8	63.9	49.7	46.1	32.7	34.3	45.8	44.5	45.4	53.2	58.5	65.7	60.4	57.0
	AVG	86.7	87.4	78.8	67.3	57.8	43.7	45.7	55.8	57.0	61.0	67.5	75.8	81.5	77.0	74.0
FIVE POINTS - DIENER	MAX	107	108	98	88	82	65	69	76	86	92	99	105	106	104	100
	MIN	60	62	58	44	33	24	25	34	39	37	40	50	55	53	46
	AV MAX	101.5	101.9	92.1	81.9	68.1	53.8	54.6	64.8	71.0	77.5	83.7	94.9	98.4	92.1	89.7
	AV MIN	67.6	67.9	63.3	52.7	47.6	32.5	34.6	48.3	44.8	46.9	52.2	60.7	65.0	61.3	57.1
	AVG	84.6	84.9	77.7	67.3	57.8	43.1	44.6	56.6	57.9	62.2	67.9	77.8	81.7	76.7	73.5
FRESNO CO WESTSIOE FO	MAX	109	109	106	92	85	66	76	75	87	94	99	M	109	105	104
	MIN	59	62	56	45	34	17	24	36	34	35	40	M	56	52	43
	AV MAX	103.5	104.0	93.5	83.4	47.8	30 M	58 M	65.8	71.0	77.7	87.0	M	99.2	91.9	91
	AV MIN	67.5	67.6	62.5	51.2	70.4	55 M	32 M	45.1	43.4	45.2	51.2	M	65.0	59.8	56
	AVG	85.5	85.8	78.0	67.3	59.1	48 M	45 M	55.4	57.2	61.4	69.1	M	82.1	75.8	74
HANFORD WELL #21	MAX	104	105	99	88	81	64	67	75	85	92	97	101	104	100	100
	MIN	53	58	55	39	33	20	23	30	35	32	40	48	55	50	40
	AV MAX	99.5	99.3	91.2	80.3	68.4	53.1	55.4	65.2	70.2	77.2	82.7	92.2	97.0	91.5	89.4
	AV MIN	64.4	63.9	59.0	45.9	44.1	29.4	31.5	44.0	42.8	44.6	50.6	58.2	62.8	57.9	53.7
	AVG	81.9	81.6	75.1	63.1	56.2	41.2	43.4	54.6	56.5	60.9	66.6	75.2	79.9	74.7	71.0
IVANHOE I D	MAX	106	103	104	89	86	65	70	76	M	93	99	106	107	103	101
	MIN	58	59	55	43	35	23	26	33	M	35	42	44	59	52	44
	AV MAX	99.2	99.1	90.2	82.4	70.1	52.8	57.1	65.1	M	47.6	84.1	94.5	99.1	93.1	91.1
	AV MIN	66.0	64.7	61.1	50.4	45.9	31.2	33.3	45.2	M	78.6	51.5	60.0	64.9	59.8	56.0
	AVG	82.6	81.9	75.6	66.4	58.0	42.0	45.2	55.2	M	63.1	67.8	77.2	82.0	76.4	74.0
KETTLEMAN HILLS	MAX	107	107	99	90	81	62	61	77	84	91	94	101	105	104	99
	MIN	71	72	63	53	43	31	30	42	45	47	48	54	65	56	56
	AV MAX	100.0	100.8	90.0	79.3	66.4	51.7	53.7	62.2	66.5	73.6	79.5	91.0	96.9	90.5	87.5
	AV MIN	77.3	79.2	69.7	62.1	54.5	40.5	41.4	51.4	51.7	56.2	59.0	69.4	74.7	68.0	67.2
	AVG	88.6	90.0	79.8	70.7	60.4	46.1	47.5	56.8	59.1	64.9	69.2	80.2	85.8	79.2	77.4
MAGUNDEN	MAX	110	113	99	94	86	66	75	78	88	94	98	109	108	107	101
	MIN	65	67	62	42	38	24	30	33	38	40	46	47	64	56	49
	AV MAX	104.3	105.5	93 M	83.9	70.7	54.4	57 M	68.3	71.4	79.9	85 M	97.1	102.3	95.5	92.1
	AV MIN	71.8	73.1	66 M	52.5	48.7	34.1	35 M	52.0	46.8	49.4	56 M	63.8	70.0	64.5	61.7
	AVG	88.0	89.3	80 M	68.2	59.7	44.2	46 M	60.1	59.1	64.6	70 M	80.4	86.1	80.0	77.0
MENDOTA MURRIETA FARMS	MAX	105	102	98	87	80	62	64	77	85	88	96	102	105	101	99
	MIN	53	56	53	42	32	20	18	30	32	36	38	46	51	42	42
	AV MAX	99.8	97.5	90.4	80.1	66.4	54 M	53.5	62.7	68.0	76.1	80.6	93.0	96.2	90.0	89
	AV MIN	62.6	63.7	59.0	49.3	44.6	28 M	28.8	44.0	40.9	43.4	48.8	56.5	59.8	54.7	52
	AVG	81.2	80.6	74.7	64.7	55.5	41 M	41.1	53.4	54.4	59.7	64.7	74.7	78.0	72.3	71
NORTH BELRIOGE	MAX	107	110	101	90	84	64	70	77	86	92	98	106	107	105	101
	MIN	69	67	63	47	38	26	28	39	38	41	48	54	67	59	51
	AV MAX	102.1	103.6	92.0	82.1	68.2	53.5	55.1	65.0	69.7	76.7	83.5	94.8	100.3	93.2	90.1
	AV MIN	74.6	75.4	68.4	54.8	49.4	35.1	36.8	48.2	46.2	49.9	57.4	67.2	73.9	66.6	62.7
	AVG	88.4	89.5	80.2	68.4	58.8	44.3	45.9	56.6	57.9	63.3	70.4	81.0	87.1	79.9	76.4
OLD RIVER 3 W	MAX	106	103	104	103	85	NR	NR	NR	NR	NR	NR	102	100	102	99
	MIN	58	59	55	34	32	NR	NR	NR	NR	NR	NR	48	56	49	39
	AV MAX	99.2	99.1	90.2	89.5	70.9	NR	NR	NR	NR	NR	NR	90.6	96.3	89.6	88.5
	AV MIN	66.0	64.7	61.1	52.2	47.4	NR	NR	NR	NR	NR	NR	57.7	63.2	58.8	54.5
	AVG	82.6	81.9	75.6	70.9	59.1	NR	NR	NR	NR	NR	NR	74.2	79.8	74.2	71.5
RECTOR	MAX	106	106	98	90	83	65	69	76	84	92	98	102	106	102	100
	MIN	58	59	54	40	34	21	28	34	36	34	42	50	52	51	41
	AV MAX	100.2	100.6	91.8	83.5	69.9	52.8	54.8	66.0	70.3	77.7	84.4	94.4	98.9	92.9	92.0
	AV MIN	65.1	65.7	60.8	48.8	46.3	32.2	35.0	46.2	44.5	45.6	51.2	58.8	62.1	58.9	55.8
	AVG	82.6	83.1	76.3	66.1	58.1	42.5	44.9	56.1	57.4	61.6	67.8	76.6	80.5	75.9	73.9
RIVERDALE	MAX	106	105	98	92	85	62	67	76	85	92	96	102	103	102	99
	MIN	57	58	56	40	33	22	24	36	34	30	40	47	55	51	40
	AV MAX	M	99.4	91.5	84.0	68.4	53.8	54.6	65.0	70.1	78.1	82.4	92.4	96.9	91.8	89.8
	AV MIN	65.1	63.4	59.9	49.4	44.5	29.5	31.4	45.1	41.8	43.7	49.8	57.7	62.3	57.5	52.6
	AVG	M	81.4	75.7	66.7	56.4	41.6	43.0	55.0	56.0	60.9	66.1	75.5	79.6	74.6	71.2
SANGER 1 NE	MAX	107	106	98	87	81	64	68	76	86	94	101	106	107	104	100
	MIN	57	58	54	43	34	22	29	36	36	34	40	51	56	50	41
	AV MAX	101.5	101.7	91.7	80.7	67.7	52.9	55.5	66.0	70.0	79.4	85.9	96.6	100.1	95.2	91.5
	AV MIN	64.8	65.3	60.7	49.4	46.6	33.8	35.8	46.1	43.8	45.5	50.9	58.6	62.3	58.5	55.1
	AVG	83.2	83.5	76.2	65.0	57.1	43.3	45.6	56.0	56.9	62.4	68.4	77.6	81.2	76.8	73.3
SOUTH 8ELRIDGE	MAX	110	112	101	92	86	66	74	78	88	94	100	108	108	108	102
	MIN	67	67	59	45	36	24	26	40	40	42	46	54	64	58	50
	AV MAX	104.2	104.8	93.3	84.4	70.1	55.5	57.7	67.3	72.0	79.2	84.9	96.1	101.7	94.1	92.0
	AV MIN	72.8	73.5	66.4	54.6	48.9	33.5	36.6	48.1	47.6	50.3	55.8	65.2	71.2	65.9	60.6
	AVG	88.5	89.1	79.8	69.5	59.5	44.5	47.1	57.7	59.8	64.7	70.3	80.6	86.4	80.0	76.1
SOUTH LAKE FARMS HDQ	MAX	108	107	98	89	85	66	69	75	85	96	96	104	106	104	103
	MIN	60	62	56	38	32	22	22	31	31	33	39	48	53	48	39
	AV MAX	100.6	101.0	91.5	82.8	68.8	52.8	55 M	65.1	69.4	75.7	82.6	91.7	99.8	93.6	91.1
	AV MIN	65.7	67.2	62.5	47.5	45.1	30.8	31 M	44.6	41.5	42.4	47.2	56.6	61.8	58.5	54.2
	AVG	83.2	84.1	77.0	65.2	56.9	41.8	43 M	54.8	55.4	49.0	64.9	74.1	80.8	76.0	72.6
TRANOUILLITY GLOTZ	MAX	108	109	100	90	81	66	64	76	85	95	99	106	106	106	101
	MIN	58	60	58	40	36	21	21	32	36	36	41	71	57	50	43
	AV MAX	101.6	101.4	91.0	80.1	66.0	52.4	52.5	64.4	69.1	76.6	82.5	94.6	99.2	92.8	91.3
	AV MIN	66.5	66.0	62.6	49.5	45.8	32.0	32.7	48.4	44.2	44.6	51.1	59.9	64.3	60.4	57.1
	AVG	84.0	83.7	76.8	64.8	55.9	42.2	42.6	56.4	56.6	60.6	66.8	77.2	81.7	76.6	74.2

TABLE A-4 (Cont.)

TEMPERATURE DATA

TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME		1967						1968								
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
TULARE	MAX	110	110	98	91	86	64	68	77	87	96	100	105	109	104	101
	MIN	58	60	57	42	35	22	27	32	36	41	45	50	58	53	44
	AV MAX	103.4	103.4	91.8	83.6	69.2	51.7	54.1	65.0	70.2	78.4	83.5	94.3	100.6	94.2	92.5
	AV MIN	66.6	66.8	62.4	49.7	46.7	32.2	35.4	46.4	44.3	46.2	51.8	60.6	64.7	60.3	56.2
	AVG	85.0	85.1	77.1	66.6	57.9	41.9	45.6	55.7	57.2	62.3	67.6	77.4	82.6	77.2	74.4
U S COTTON FIELD STA	MAX	104	106	96	89	86	67	70	75	84	92	96	103	104	100	99
	MIN	63	63	57	44	37	24	27	34	40	40	44	54	59	52	48
	AV MAX	98.5	97.8	89.5	82.6	70.1	54.8	56.0	64.8	68.4	77.7	81.4	92.7	95.6	89.5	88.4
	AV MIN	68.5	67.8	62.8	50.5	48.9	34.0	35.2	46.2	46.5	48.3	53.4	62.5	66.7	61.3	58.0
	AVG	83.5	82.8	76.2	66.5	59.6	44.0	45.6	55.5	57.5	63.2	67.4	77.6	81.4	75.7	73.8
VESTAL	MAX	108	110	101	90	85	77	72	80	87	94	100	106	107	105	102
	MIN	64	60	60	40	36	20	22	38	40	38	42	50	64	57	44
	AV MAX	102.7	103.1	94.0	83.9	72.2	54.9	59.3	68.7	72.1	80.5	86.7	97.8	101.0	94.3	92.4
	AV MIN	70.9	72.4	67.3	53.2	51.1	36.5	39.1	48.4	47.4	48.7	54.2	63.9	70.2	65.3	62.0
	AVG	86.8	87.7	80.6	68.5	61.6	45.7	49.2	58.6	59.7	64.6	70.4	80.8	85.6	79.8	77.2
KINGS RIVER																
PINE FLAT DAM	MAX	109	108	104	91	84	66	68	75	84	92	99	104	107	104	104
	MIN	58	58	53	42	35	18	25	36	34	35	38	45	53	47	44
	AV MAX	102.5	102.4	93.0	83.6	70.7	53.5	55.8	64.1	68.2	76.5	83.4	94.7	100.2	94.7	93.2
	AV MIN	64.9	64.9	57.9	47.2	43.2	30.3	33.4	44.1	41.6	44.8	48.2	57.0	63.0	57.7	55.3
	AVG	83.7	83.6	75.4	65.4	57.0	41.9	44.6	54.1	54.9	60.6	65.8	75.8	81.6	76.2	74.2
PINEHURST R S	MAX	92	95	91	M	M	M	67	70	46	M	82	93	92	92	90
	MIN	60	59	54	M	M	M	17	30	28	M	32	38	57	44	40
	AV MAX	87 M	90 M	80 M	78 M	67 M	M	54 M	M	57 M	M	68 M	80 M	86.6	81.9	81.4
	AV MIN	65 M	66 M	58 M	51 M	46 M	M	34 M	M	37 M	M	44 M	56 M	62.2	56.6	54.8
	AVG	76 M	78 M	69 M	64 M	56 M	M	44 M	M	47 M	M	56 M	68 M	74.4	69.2	68.1
KAWEAH RIVER																
TERMINUS DAM	MAX	106	105	105	88	85	65	70	76	83	90	99	104	106	103	101
	MIN	60	65	58	48	40	26	25	38	39	37	40	42	60	51	48
	AV MAX	99.8	100.6	90.3	81.3	70.2	53.0	54.9	64.3	68.2	75.6	81.7	92.2	97.2	91.5	90.1
	AV MIN	70.2	72.2	64.5	55.0	49.7	34.8	36.4	47.5	45.9	49.4	52.8	62.7	67.9	61.8	60.1
	AVG	85.0	86.4	77.4	68.2	60.0	43.9	45.6	55.9	57.0	62.5	67.2	77.5	82.5	76.6	75.1
WHITAKER FOREST	MAX	90	91	83	79	74	M	M	M	68	71	80	91	92	91	87
	MIN	53	53	44	36	24	M	M	M	20	22	28	34	52	37	35
	AV MAX	85.2	86.9	75.0	71.2	59.0	M	M	M	51.1	57.7	64.8	77.5	84.5	78.2	78.7
	AV MIN	58.3	59.5	51.9	45.9	40.1	M	M	M	31.8	35.0	40.8	50.3	57.0	51.9	51.2
	AVG	71.8	73.2	63.4	58.5	49.5	M	M	M	41.4	46.4	52.8	63.9	70.7	65.0	65.0
TULE RIVER																
SUCCESS DAM	MAX	107	106	107	99	85	65	69	76	84	91	98	104	106	104	101
	MIN	60	60	57	46	38	21	25	35	36	36	34	50	59	51	45
	AV MAX	100.7	101.5	91.1	82.1	70.7	53.5	55.5	64.6	68.1	76.0	82.3	93.1	98.5	92.2	91.1
	AV MIN	67.1	68.7	62.8	53.1	48.3	33.3	34.8	45.6	44.2	47.6	50.2	59.8	66.2	60.4	57.9
	AVG	83.9	85.1	77.0	67.1	59.5	43.4	45.1	55.1	56.2	61.8	66.2	76.4	82.3	76.3	74.5
GREENHORN MOUNTAIN																
WOODY	MAX	105	108	105	89	95	64	70	72	80	89	95	102	103	102	98
	MIN	53	58	55	41	31	17	17	27	35	25	32	45	52	44	40
	AV MAX	99.9	101 M	91.7	82.5	69.7	51 M	54.7	61.6	65.0	73.6	81.0	93.0	97.9	91.2	90.2
	AV MIN	66.5	67 M	59.0	48.5	44.2	29 M	31.5	40.8	39.0	39.7	45.5	60.9	63.7	57.5	55.6
	AVG	83.2	84 M	75.3	65.5	56.9	40 M	43.1	51.2	52.0	56.6	63.2	76.9	80.8	74.3	72.9
KERN RIVER																
ISABELLA DAM	MAX	104	104	99	92	85	68	76	75	81	85	95	105	103	103	100
	MIN	55	57	52	41	29	22	18	31	30	25	35	47	55	50	40
	AV MAX	98.3	99.8	88.0	81.8	70.5	51.8	57.1	63.7	64.9	70.5	77.5	89.3	96.1	89.9	90.9
	AV MIN	63.8	64.4	57.2	46.4	42.9	29.7	28.7	40.1	37.3	40.5	49.0	59.7	64.6	59.3	53.5
	AVG	81.0	82.1	72.6	64.1	56.7	40.7	42.9	51.9	51.1	55.5	63.2	74.5	80.3	74.6	72.2
TEN HIGH MINE	MAX													RB	89	89
	MIN													RB	36	32
	AV MAX													RB	76.4	79.6
	AV MIN													RB	50.2	48.9
	AVG													RB	63.3	64.2
TEHACHAPI MOUNTAINS																
CUMMINGS VALLEY 2	MAX	90	94	90	86	86	73	75	76	73	76	84	94	96	90	89
	MIN	42	42	40	30	24	03	02	23	23	18	21	32	38	32	22
	AV MAX	86.2	88.7	80.3	74.8	67.7	49.0	56.1	59.5	58.1	63.5	69.5	80.5	87.5	77.7	81.7
	AV MIN	49.9	51.7	46.9	37.0	39.7	23.2	23.0	36.2	30.0	29.3	33.6	41.4	48.0	45.0	40.5
	AVG	68.1	70.2	63.9	55.9	53.7	36.1	39.5	47.8	44.0	46.4	51.6	60.9	67.8	61.4	61.1
KEENE	MAX	98	98	93	89	80	66	71	77	79	85	87	96	98	98	94
	MIN	44	45	51	39	28	17	21	29	32	27	34	43	40	37	36
	AV MAX	93.0	93.9	83.4	76.0	66.6	51.1	56.7	62.8	62.6	69.3	73.0	84.2	91.2	85.2	82.8
	AV MIN	61.2	62.1	57.6	48.0	45.2	31.7	35.0	41.6	39.7	40.2	44.6	53.7	59.3	53.2	51.9
	AVG	77.1	78.0	70.5	62.0	55.9	41.4	45.8	52.2	51.1	54.7	58.8	68.9	75.2	69.2	67.4
MIL POTRERO	MAX										RB	81	89	88	85	86
	MIN										RB	28	31	44	39	26
	AV MAX										RB	66.3	78.0	83.1	76.7	78.9
	AV MIN										RB	37.0	45.1	52.2	46.3	44.6
	AVG										RB	51.6	61.5	67.6	61.5	61.8
TULARE L BAS WESTSIDE																
DOMENGINE RANCH	MAX	106	108	98	87	81	63	76	77	83	91	95	101	105	103	98
	MIN	62	60	49	43	35	19	26	39	39	42	44	50	58	51	50
	AV MAX	100.2	100.9	90.6	80.4	67.2	53.1	55.0	63 M	68.3	72.8	80.9	91.9	96.8	90.5	88.6
	AV MIN	70.4	71.8	63.7	56.2	49.4	37.0	37.7	49 M	48.2	49.9	53.4	64.2	68.7	62.7	61.8
	AVG	85.3	86.4	72.7	68.3	58.3	45.0	46.3	56 M	58.2	61.3	67.1	78.0	82.7	76.7	75.2
TAFT KTKR RADIO	MAX	106	102	105	86	83	63	72	73	85	90	96	102	106	104	100
	MIN	66	74	58	48	36	24	25	35	40	38	43	45	64	54	46
	AV MAX	100.4	101.5	90.7	80.7	68.1	53.0	54.7	64.1	68.5	75.8	81.4	92.8	98.2	91.3	90.5
	AV MIN	72.7	73.9	66.4	55.5	49.0	33.7	35.1	46.7	46.8	49.7	54.8	63.7	71.2	63.5	62.1
	AVG	86.6	87.7	78.5	68.1	58.5	43.3	44.9	55.4	57.6	62.7	68.1	78.2	84.7	77.4	76.3

TABLE A-5

EVAPORATION DATA

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

Evap	The total amount of water evaporated from the pan for the month.
Wind	The amount of movement of air over the pan in miles for the month.
Av Max	Arithmetical average of daily maximum water temperature for the month.
Av Min	Arithmetical average of daily minimum water temperature for the month.
-	No record.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

Wind and water temperature data are not available at all evaporation stations.

EVAPORATION IN INCHES
WIND MOVEMENT IN MILES
WATER TEMPERATURE IN DEGREES FAHRENHEIT

TABLE A-5

EVAPORATION DATA

STATION NAME		TOTAL JULY 1 TO JUNE 30	1967						1968									TOTAL OCT 1 TO SEPT 30
			JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
SAN JOAQ R BASIN																		
SAN JOAQ VAL FLOOR																		
LOST BANOS FIELD STA	EVAP	92.32	15.97	13.04	8.37	5.84	2.35	1.54	1.38	1.58	4.54	10.59	12.30	14.82	17.06	11.72	10.83	94.55
	WIND	27720	2860	2162	1645	1693	1028	1616	1477	1154	2169	3681	4346	3889	3907	3241	2964	31165
MERCED 5 SE	EVAP	70.89E	11.21E	9.28	6.02	4.60	2.24	1.24	1.44	1.95	4.19	6.77	9.21	12.74	11.90	RE		
	WIND	16015	1026	600	665	949	722	1269	1312	954	1678	1770	2481	2589	1528	RE		
WESTLEY	EVAP	75.38E	10.29	9.46	6.29	4.95	1.96	1.37	1.22	1.47	4.60	9.61E	10.03	14.13	11.12	8.04	7.53	76.03E
TUOLUMNE RIVER																		
DON PEDRO RESERVOIR	EVAP	90.39E	15.17	13.89	9.85	7.38E	2.36	1.69	1.35	2.11	4.07	7.68	10.75	14.09	15.84	12.03	10.52	89.87E
FRESNO-CHOWCHILLA R																		
CATHEYS VLY BULL RUN R	EVAP	74.97	12.71	11.87	8.17	5.59	2.08	1.01	1.39	1.69	3.65	5.67	9.05	12.09	13.51	11.06	9.48	76.27
	WIND	-	801	703	637	-	-	796	953	825	1120	827	1237	1213	1155	1264	1052	-
TULARE LAKE BASIN																		
TULARE LAKE VAL FLOOR																		
CORCORAN EL RICO 1	EVAP	85.73	14.63	13.30	8.79	6.47	2.21	0.72	0.66	1.26	4.24	8.97	11.97	13.53	14.15	11.65	9.91	86.74
	WIND	16365	1685	1475	1335	1305	820	1065	970	855	1460	2025	2625	1845	1550	1665	1380	16265
DELANO GOV'T CAMP	EVAP	-											RB	12.70	11.82	9.87	8.21	-
OLD RIVER 3 W	EVAP		10.28	9.39	6.65	5.01	2.43	NR	NR	NR	NR	NR	NR	10.16	11.32	9.30	7.29	
	WIND		1687	788	874	658	834	NR	NR	NR	NR	NR	NR	988	959	924	695	
	AV MAX		91.8	92.4	84.9	75.8	64.0	NR	NR	NR	NR	NR	NR					
	AV MIN		69.0	72.8	64.1	54.5	51.9	NR	NR	NR	NR	NR	NR					
U S COTTON FIELD STA	EVAP	-	12.89	10.41	8.20	6.69	2.72	-	1.58	2.08	4.75	8.22	11.00	13.47	13.01	10.54	9.08	-
	WIND	15554	1197	642	922	904	883	1225	1310	860	1487	1902	2204	2018	1431	1292	928	16444
KINGS RIVER																		
PINE FLAT DAM	EVAP	67.89	11.52	10.95	7.49	5.11	2.17	0.87	1.05	1.58	3.34	5.73	7.93	10.15	11.36	10.20	8.48	67.97
	WIND	-	718	801	661	667	618	642	-	659	759	562	704	644	675	768	682	-
	AV MAX		99.8	98.9	90.8	79.4	65.2	48.0	51.4	63.6	71.3	82.1	87.4	96.1	97.8	92.8	90.1	
	AV MIN		68.9	68.2	62.9	54.2	47.8	35.7	37.3	47.5	46.2	50.3	55.3	62.5	66.2	62.1	59.2	
KAWEAH RIVER																		
TERMINUS DAM	EVAP	86.35	14.07	14.05	9.23	6.84	3.18	1.22	1.54	2.09	4.28	7.35	9.70	12.80	14.73	12.51	11.01	87.25
	WIND	17193	1552	1632	1421	1727	1494	1663	1806	1380	1461	1456	1441	1600	1698	1807	1924	18017
	AV MAX		95.3	95.4	88.6	77.9	65.0	52.6	53.6	65.9	72.8	80.9	86.1	93.0	94.4	91.4	87.9	
	AV MIN		68.4	68.4	63.6	53.9	49.3	37.1	39.1	48.5	47.5	51.4	56.3	62.5	66.2	61.8	59.2	
WHITAKER FOREST	EVAP	-	7.78	8.14	4.44	3.53	-	-	-	-	-	-	4.61	6.76	8.35	6.97	6.35	-
	WIND	-	2043	946	744	868	-	-	-	-	-	-	974	890	840	761	777	-
TULE RIVER																		
SUCCESS DAM	EVAP	85.15	13.92	13.14	8.81	6.70	3.01	1.37	1.49	2.06	4.44	7.61	9.92	12.68	14.04	11.90	9.64	84.16
	WIND	14049	1247	694	1178	1399	1046	1077	1058	764	1067	1288	1264	1271	1244	1365	1206	13353
	AV MAX		97.2	96.6	88.2	79.3	66.9	52.1	53.7	65.7	71.9	80.7	84.9	92.2	93.7	90.2	87.0	
	AV MIN		69.2	70.1	65.5	55.4	50.9	37.8	38.9	49.0	49.3	51.8	55.5	63.7	67.5	62.6	60.4	
KERN RIVER																		
ISABELLA DAM	EVAP	80.01	12.77	11.73	7.48	6.40	3.04	1.49	1.82	2.39	3.66	6.41	10.09	12.73	12.70	11.06	9.31	91.10
	WIND	18770	1681	1385	1244	1492	1111	1650	1118	1445	1522	1638	2202	2282	1967	2048	1510	19985
	AV MAX		89.5	89.1	81.2	72.7	61.4M	47.8M	49.4	59.0	62.2	70.3	73.6	81.5	83.5	80.4	77.8	
	AV MIN		62.7	62.8	58.2	47.5	44.3M	33.1M	35.4	41.7	40.9	44.0	48.8	56.0	59.6	56.1	52.1	
TEHACHAPI MTN																		
CUMMINGS VALLEY 2	EVAP	86.55	12.51	11.60	9.28	7.80	4.18	3.56	4.64	3.88	4.19	6.83	7.95	10.13	10.94	9.88	9.29	83.27
	WIND	27086	1590	1639	1860	2310	2447	4394	3451	2501	2275	2095	1394	1130	1091	1708	1381	26177
TULARE L BAS WESTSIDE																		
TAFT KTRB RADIO	EVAP	102.52	16.46	16.03	10.59	7.86	3.38	1.84	1.89	2.34	5.86	9.53	11.70	15.04	15.30	13.03	11.41	99.18
	WIND	16430	1210	1180	1340	1430	910	1360	1060	830	1720	2080	1580	1730	1350	1540	1460	17050

TABLE A-6

CLIMATOLOGICAL STATION CHANGES
AND
RELOCATIONS

Changes in Station Names

New Name	Former Name	
Upper Woodchuck	Woodchuck Meadow	10-27-67
Old River 3W	Old River 3S	6- 1-68

Equipment Relocation

Copperopolis	Equipment moved 600' North	Oct 1967
Tehachapi	Equipment moved 3 miles ENE	Jul 1968
Tejon Rancho	Temperature equipment moved 500' West	Jun 1967
Turlock 8 WSW	Equipment moved 1.0 mile North	Nov 1967
Old River 3 S	Equipment moved 4.5 miles NW	May 1968

APPENDIX B

SURFACE WATER MEASUREMENT

INTRODUCTION

This appendix presents surface water data for the 1968 water year, which is from October 1, 1967 to September 30, 1968. 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, additions and discontinuations, 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

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

	Page: Daily Mean Discharge	Page: Daily Mean Gage Height
Bean Creek near Coulterville	72	
Bear Creek below Bear Reservoir	65	
near Catheys Valley	64	
Big Creek Diversion near Fish Camp	54	
Buena Vista Creek near Taft	100	
Burns Creek below Burns Reservoir	67	
at Hornitos	66	
Campbell-Moreland Ditch above Porterville	91	
Chowchilla River near Raymond	59	
East Fork near Ahwahnee	47	
Middle Fork near Nipinnawasee	47	
West Fork near Mariposa	58	
Cross Creek below Lakeland Canal #2	87	
Delta-Mendota Canal near Tracy	50	
to Mendota Pool	51	
Dry Creek near Modesto	80	127
Eastside Bypass near El Nido	60	
Fresno River Eight Miles West of Madera	57	
Lewis Fork near Oakhurst	55	
Friant-Kern Canal Delivery to Porter Slough	88	
to Tule River	89	
Hubbs-Miner Ditch at Porterville	96	
Kern River near Bakersfield	99	
Kings River, South Fork, below Empire Weir #2	86	
Mariposa Bypass near Crane Ranch	47	
Mariposa Creek near Catheys Valley	61	
below Mariposa Reservoir	62	
Maxwell Creek at Coulterville	73	
Merced River at Cressey	75	122
below Snelling	74	121
North Fork near Coulterville	71	
Miami Creek near Oakhurst	56	
Orestimba Creek near Crows Landing	76	
Owens Creek below Owens Reservoir	63	
Panoche Drain near Dos Palos	69	
Poplar Ditch near Porterville	95	
Porter Slough at Porterville	92	
Porter Slough Ditch at Porterville	93	
Rhodes-Fine Ditch near Porterville	97	
Salt Slough near Stevinson	70	
San Joaquin River at Crows Landing Bridge	77	124
near Dos Palos	53	
at Fremont Ford Bridge		120
below Friant	49	117
at Maze Road Bridge	82	130
near Mendota	52	
near Newman		123
above Sand Slough		118
near Stevinson	68	119
near Vernalis	85	134
Stanislaus River at Koetitz Ranch	84	133
at Orange Blossom Bridge	83	131
at Ripon		132
at Riverbank	47	
Striped Rock Creek near Raymond	47	
Tulare Lake		116
Tule River below Porterville	90	
North Fork at Springville	47	
Tuolumne River at Hickman Bridge	79	126
at La Grange Bridge	78	125
at Modesto		128
at Tuolumne City	81	129
Vandalia Ditch near Porterville	94	
Woods-Central Ditch near Porterville	98	

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- San Joaquin River
  - Vernalis to Fremont Ford Bridge . . . 102
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Station Number		Page: Daily Mean Discharge	Page: Daily Mean Gage Height
	HYDROGRAPHIC AREA B		
	SAN JOAQUIN VALLEY FLOOR		
B00420	Mariposa Bypass near Crane Ranch	47	
0435	Eastside Bypass near El Nido	60	
0470	Salt Slough near Stevinson	70	
0770	Delta-Mendota Canal to Mendota Pool	51	
0975	Panoche Drain near Dos Palos	69	
3115	Stanislaus River at Koetitz Ranch	84	133
3125	at Ripon		132
3145	at Riverbank	47	
3175	at Orange Blossom Bridge	83	131
4105	Tuolumne River at Tuolumne City	81	129
4120	at Modesto		128
4130	Dry Creek near Modesto	80	127
4150	Tuolumne River at Hickman Bridge	79	126
4175	at La Grange Bridge	78	125
5155	Merced River at Cressey	75	122
5170	below Snelling	74	121
5570	Bear Creek below Bear Reservoir	65	
6170	Owens Creek below Owens Reservoir	63	
6725	Fresno River Eight Miles West of Madera	57	
7020	San Joaquin River near Vernalis	85	134
7040	at Maze Road Bridge	82	130
7250	at Crows Landing Bridge	77	124
7300	near Newman		123
7375	at Fremont Ford Bridge		120
7400	near Stevinson	68	119
7575	above Sand Slough		118
7610	near Dos Palos	53	
7710	near Mendota	52	
7885	below Friant	49	117
8720	Orestimba Creek near Crows Landing	76	
	MERCED RIVER		
B51250	Maxwell Creek at Coulterville	73	
2580	Bean Creek near Coulterville	72	
2600	Merced River, North Fork, near Coulterville	71	
5400	Bear Creek near Catheys Valley	64	
6100	Burns Creek below Burns Reservoir	67	
6400	at Hornitos	66	
	FRESNO - CHOWCHILLA RIVERS		
B62100	Mariposa Creek below Mariposa Reservoir	62	
2400	near Catheys Valley	61	
4200	Chowchilla River near Raymond	59	
4260	Striped Rock Creek near Raymond	47	
4300	Chowchilla River, West Fork, Near Mariposa	58	
4360	Middle Fork, near Nipinnawasee	47	
4400	East Fork, near Ahwahnee	47	
7300	Miami Creek near Oakhurst	56	
7325	Fresno River, Lewis Fork near Oakhurst	55	
7920	Big Creek Diversion near Fish Camp	54	
	SACRAMENTO - SAN JOAQUIN DELTA		
B95925	Delta-Mendota Canal near Tracy	50	
	HYDROGRAPHIC AREA C		
	TULARE LAKE VALLEY FLOOR		
C01120	Kings River, South Fork, below Empire Weir #2	86	
2602	Cross Creek below Lakeland Canal #2	87	
3110	Tulare Lake		116
3169	Tule River below Porterville	90	
3182	Porter Slough at Porterville	92	
3913	Friant-Kern Canal Delivery to Porter Slough	88	
3923	to Tule River	89	
3925	Hubbs-Miner Ditch at Porterville	96	
3940	Rhodes-Fine Ditch near Porterville	97	
3948	Woods-Central Ditch near Porterville	98	
3960	Poplar Ditch near Porterville	95	
3965	Vandalia Ditch near Porterville	94	
3970	Campbell-Moreland Ditch above Porterville	91	
3984	Porter Slough Ditch at Porterville	93	
5150	Kern River near Bakersfield	99	
7120	Buena Vista Creek near Taft	100	
	TULE RIVER		
C32100	Tule River, North Fork, at Springville	47	

SACRAMENTO
SACRAMENTO
AMADOR
CALAVERAS
TUOLUMNE
SAN JOAQUIN
STANISLAUS
MERCED
MADERA
CLARA
STOCKTON
Lodi
Galt
Thornton
Ripon
Escalon
Oakdale
Modesto
Turlock
Livingston
Merced
Newman
Gustine
Chowchilla
Sonora
Tuolumne
San Andreas
Jackson
Sutter Cr
Farmington Res
Don Pedro Res
Lake McClure
B95925
3125
3115
7020
7040
4105
4120
4130
3175
4150
4175
2580
1250
2600
5155
5170
6400
5400
2400
7250
8720
7300
7400
7375
0470
6100
5570
6170
2100
4200
0435
7575
B
3
4
5
8
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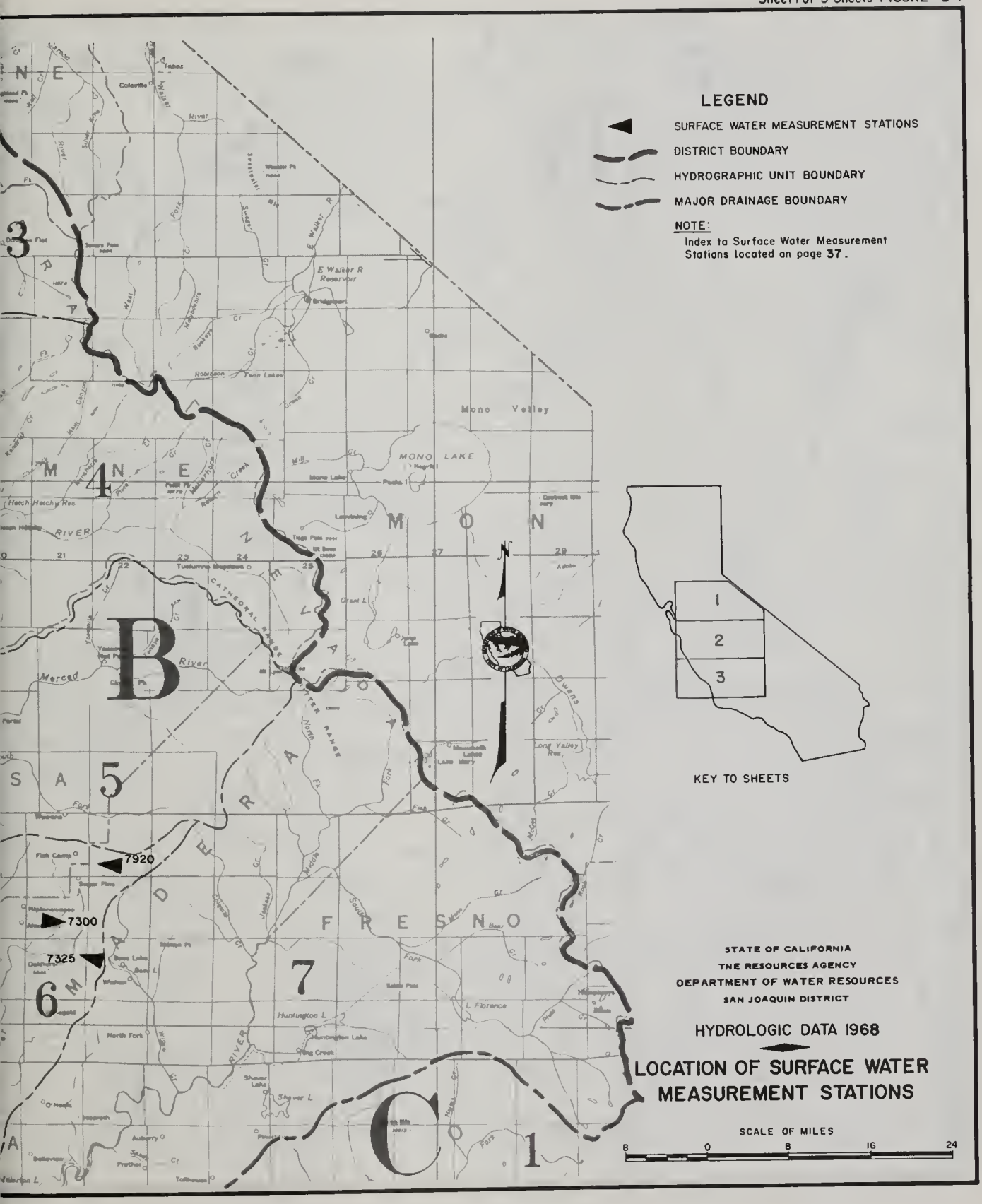
LEGEND
SURFACE WATER MEASUREMENT STATIONS
DISTRICT BOUNDARY
HYDROGRAPHIC UNIT BOUNDARY
MAJOR DRAINAGE BOUNDARY
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STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1968
LOCATION OF SURFACE WATER MEASUREMENT STATIONS
SCALE OF MILES
8 0 8 16 24
7920
7300
7325
MONO LAKE
Mono Valley
E Walker R Reservoir
Hetch Hetchy Res
Merced River
Long Valley Res
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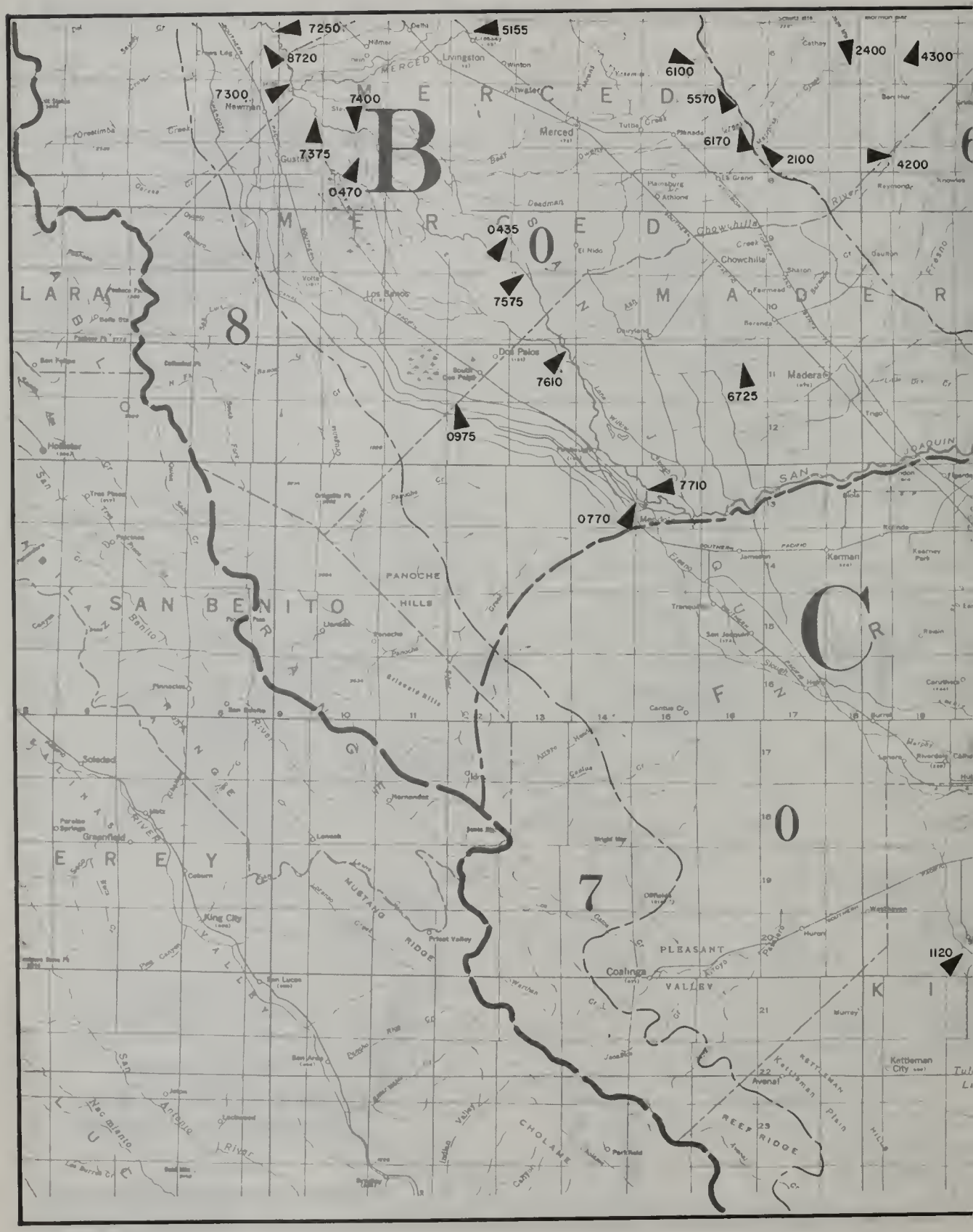
Shaver L
L Florence
Tollhouse
Auberry
Prather
Yosemite
Tuolumne Meadows
Lake Mary
Mammoth Lakes
Bridgeport
Twin Lakes
Robinson
Lundy
Lee Vining
Mono Lake
Fish Camp
Oakhurst
Bass Lake
Shaver Lake
Huntington Lake
Big Creek
Wishon
North Fork
Sierra Pine camp
Sugar Pine
Coleville
Walker River
Silver Lake
Sonora Pass camp
Tioga Pass camp
Lundy Canyon
Mill Creek
Rush Creek
Owens River
Cathedral Range
Sierra Nevada
Mono
Fresno
Madera
Tuolumne
Alpine
Mariposa
Inyo
Kern
Tulare
Kings
Hetch Hetchy Res
Adobe
Crowley Lake
Pumice I
Paoha I
Negro I
Great L
Lake Mary
Lake Mamie
Lake Sabrina
Lake Thomas A Edison
Lake Florence
Lake Huntington
Lake Shaver
Lake Wishon
Lake Bass
Lake Edison
Lake Thomas A Edison
Lake Crowley
Lake Mamie
Lake Sabrina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Atwater
Merced
Newman
Gustine
Los Banos
Dos Palos
Chowchilla
Madera
Kerman
Coalinga
Avenal
Kettleman City
Soledad
Greenfield
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San Ardo
Lockwood
Bradley
Parkfield
Cholame
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Bakersfield
Taft
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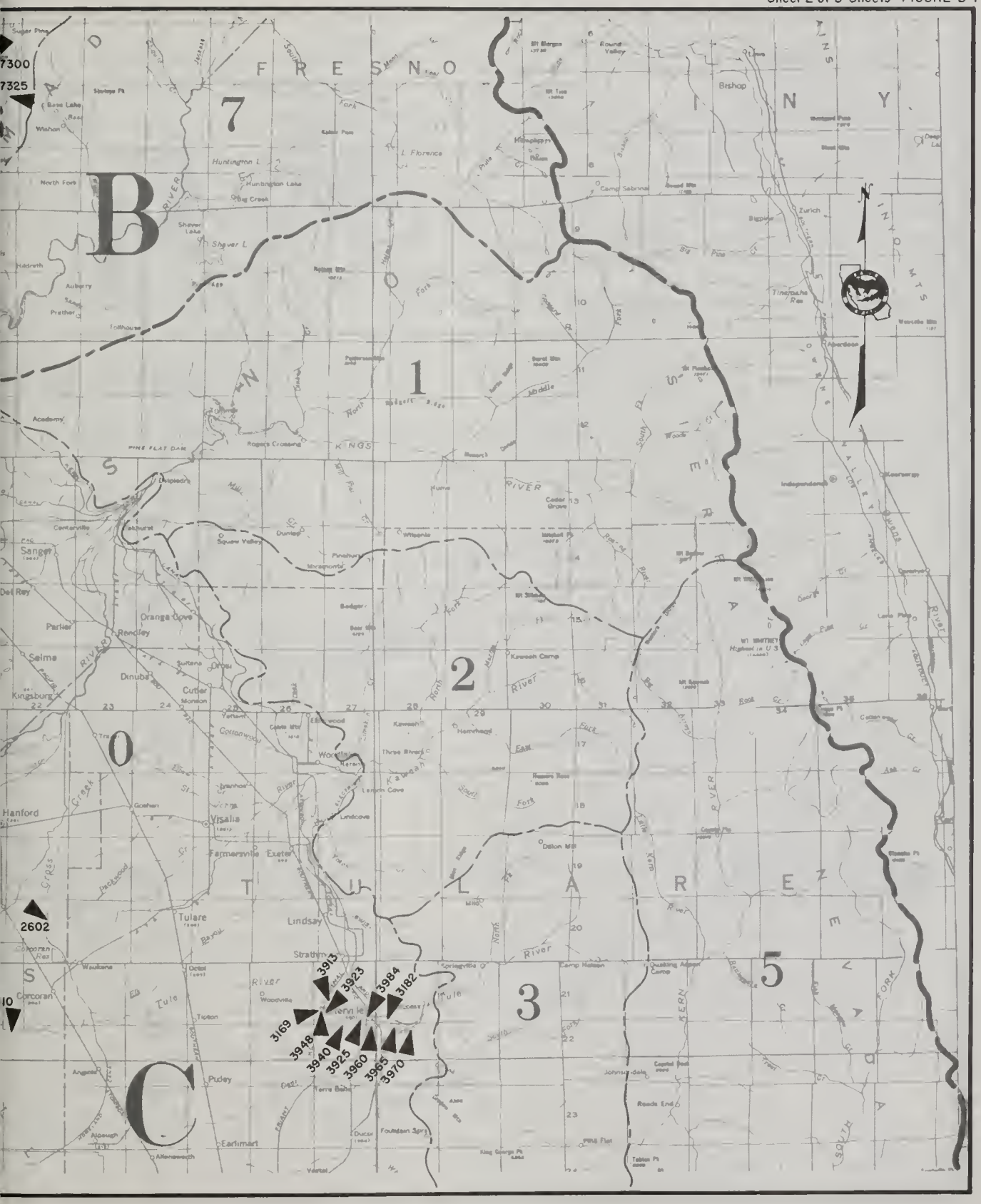
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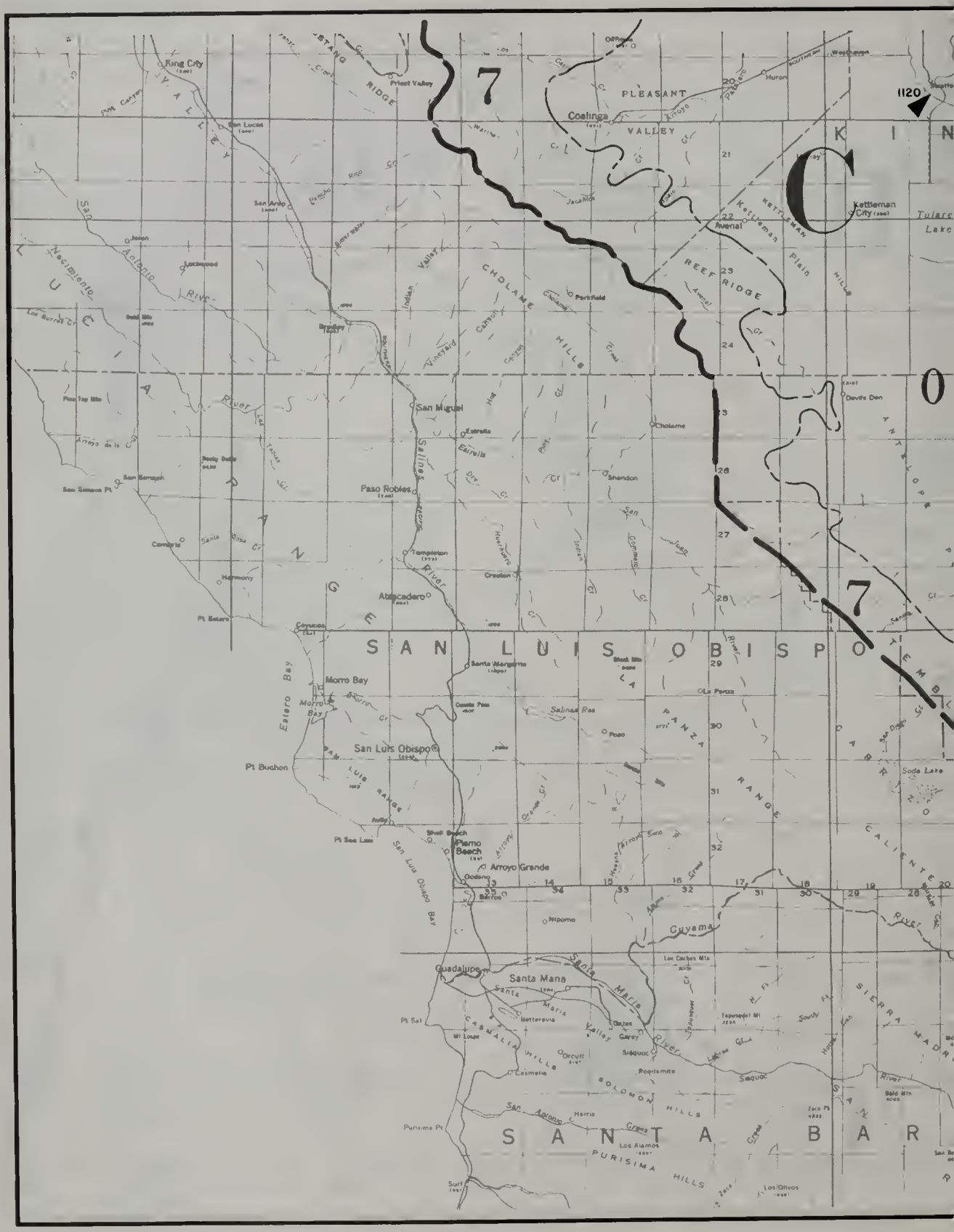
Selma
Kingsburg
Orange Cove
Reedley
Parlier
Del Rey
Pine Flat Dam
Huntington Lake
Shaver Lake
Bishop
Independence
Lone Pine
Tulare Lake
Kern River
Kaweah River
Tule River
Kings River
Fresno River
Mono Lake
Owens Lake
Death Valley
Sierra Nevada
Mt Whitney
Highway 3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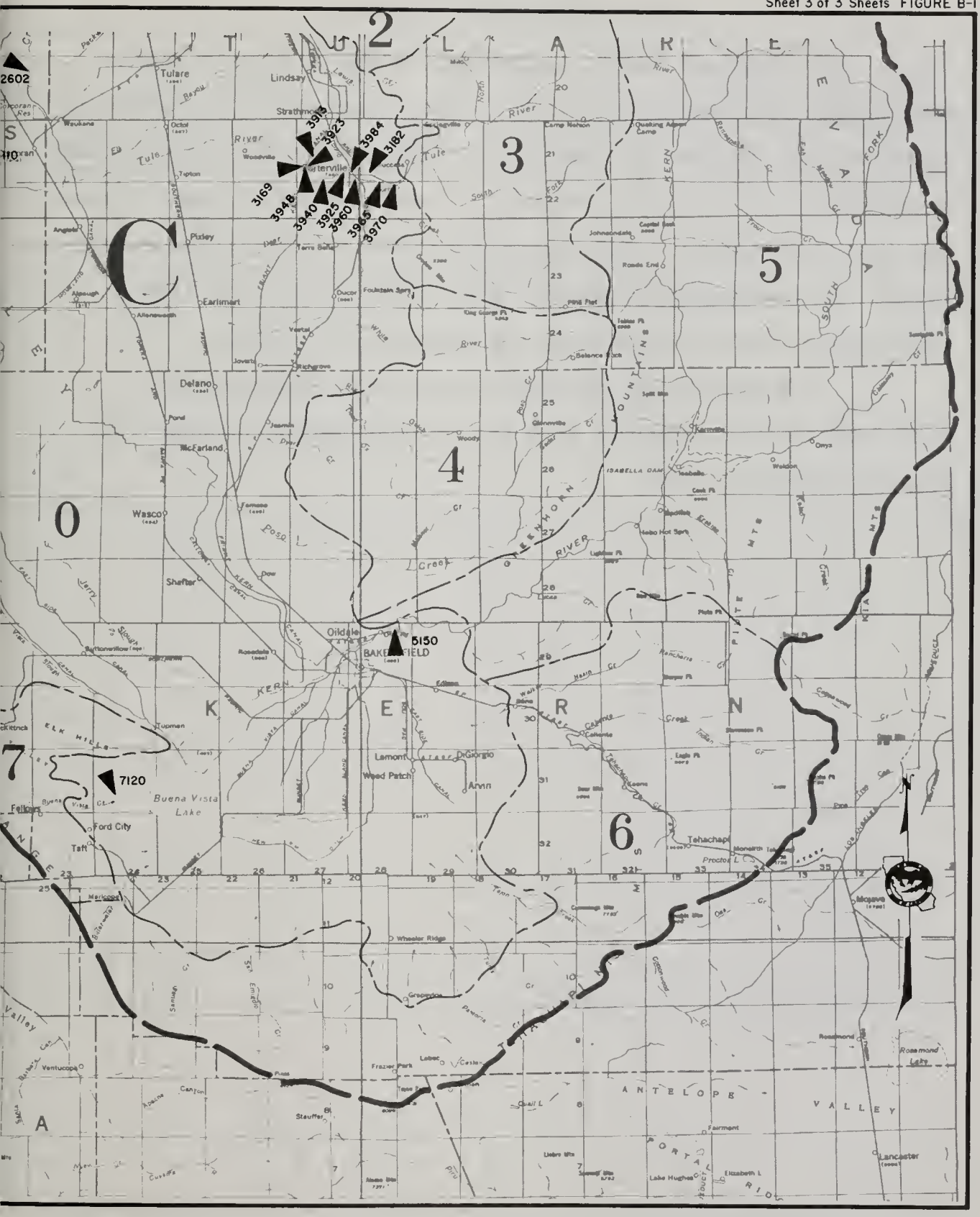
HILLS
Parkfield
Cholame
Shandon
San Miguel
Paso Robles
Templeton
Atascadero
Cayucos
Morro Bay
San Luis Obispo
Pt Buchon
Pt Sea Lion
Pismo Beach
Arroyo Grande
Nipomo
Guadalupe
Santa Maria
Santa Mana
Casmalia
Orcutt
Sisquoc
Los Alamos
Los Olivos
Surf
Pt Sal
Purisima Pt
SOLOMON HILLS
PURISIMA HILLS
SIERRA MADRE
SANTA BARBARA
SAN LUIS OBISPO
Estero Bay
Pt Estero
Cuyama
Sodo Lake
Davis Den
Tulare Lake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Earlimart
Delano
McFarland
Wasco
Shafter
Oildale
BAKERSFIELD
Tupman
Lamont
Weed Patch
DeGiorgio
Arvin
Buena Vista Lake
Ford City
Taft
Maricopa
Tehachapi
Mojave
Wheeler Ridge
Ventucopa
Stauffer
Fairmont
Lancaster
Rosamond
Lake Hughes
ANTELOPE VALLEY
KERN
TULARE
SOUTH FORK
KERN RIVER
TEHACHAPI MTS
ELK HILLS

TABLE B-1

ANNUAL 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.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1915 through September 1965.

TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

In percent of average

Water Year	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
Average Annual Runoff (a)	1057	1741	897	1617	5312	1530	383	124	604
1926-27	129	118	121	124	122	130	126		
1927-28	90	88	82	71	82	63	53		
1928-29	49	56	54	53	54	56	58		
1929-30	69	66	57	53	61	56	57		55
1930-31	30	35	29	30	31	30	30	20	31
1931-32	128	121	124	127	125	136	136	112	115
1932-33	58	64	57	69	63	77	74	65	71
1933-34	40	47	40	43	43	43	34	16	38
1934-35	115	121	131	119	121	106	93	72	76
1935-36	125	125	128	115	122	123	127	138	124
1936-37	105	115	135	137	123	153	177	247	183
1937-38	193	197	232	228	212	214	227	287	213
1938-39	50	57	53	57	55	64	65	67	75
1939-40	133	128	122	116	124	117	134	170	115
1940-41	127	144	162	164	150	166	167	191	206
1941-42	141	136	143	139	139	131	128	110	124
1942-43	148	136	144	127	137	132	175	295	166
1943-44	64	75	76	78	74	76	82	83	96
1944-45	121	121	122	132	124	135	144	164	134
1945-46	111	108	105	107	108	105	93	76	107
1946-47	60	63	63	70	64	72	69	42	70
1947-48	85	81	77	75	79	65	68	52	55
1948-49	71	72	71	72	72	63	57	39	49
1949-50	102	89	80	81	88	84	79	50	72
1950-51	160	143	137	115	137	105	110	125	88
1951-52	182	172	174	176	175	187	215	259	231
1952-53	92	88	70	76	82	76	80	80	90
1953-54	84	83	74	81	81	85	80	72	83
1954-55	64	65	60	72	66	72	72	52	59
1955-56	178	182	187	183	182	166	189	169	144
1956-57	85	82	72	82	81	81	77	53	72
1957-58	159	152	157	163	157	161	167	180	174
1958-59	55	57	51	59	56	53	40	26	45
1959-60	56	61	54	51	56	47	47	39	46
1960-61	38	42	35	40	40	37	30	16	29
1961-62	94	102	103	119	106	120	104	70	108
1962-63	120	118	110	120	118	122	130	96	122
1963-64	62	65	50	57	60	56	61	49	52
1964-65	168	159	149	141	153	126	127	110	114
1965-66	67	76	75	80	75	79	64	38	66
1966-67	183	179	191	200	188	212	267	302	261
1967-68 (c)	61	59	47	53	55	52	56	52	76

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1915 through September 1965.
(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 figures and subject to revision.

TABLE B-2

MONTHLY UNIMPAIRED RUNOFF

In percent of average [a]

Month		Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	106	77	66	148	107	67	80	175	124
	Average	8	15	7	18	49	18	4	1	14
November	Percent	45	35	45	81	51	92	99	115	191
	Average	23	39	18	28	107	26	8	4	17
December	Percent	31	37	34	60	41	74	77	85	142
	Average	48	84	43	57	233	48	17	8	23
January	Percent	46	50	36	62	49	63	71	64	128
	Average	54	90	48	60	251	52	18	12	24
February	Percent	114	97	60	82	90	66	68	58	118
	Average	82	137	79	92	390	79	28	18	32
March	Percent	77	73	53	65	68	65	65	51	101
	Average	113	171	92	128	503	106	38	24	45
April	Percent	74	66	63	61	66	64	60	44	72
	Average	199	283	148	237	867	215	64	24	86
May	Percent	56	66	51	55	58	58	58	35	59
	Average	287	440	239	420	1386	421	101	21	142
June	Percent	39	42	30	36	37	34	39	31	49
	Average	177	352	168	368	1064	368	74	9	123
July	Percent	22	22	23	30	25	28	27	38	46
	Average	48	104	44	148	344	138	23	2	59
August	Percent	46	60	30	51	50	40	43	0	73
	Average	12	18	9	43	83	40	6	1	24
September	Percent	115	73	76	47	68	31	53	25	76
	Average	6	8	4	18	36	17	3	0	14
1967-68	Percent	61	59	47	53	55	52	56	52	76
Water Year	Average	1057	1741	897	1617	5312	1530	383	124	604

(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 1915 through September 1965.

(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.

TABLE B-3

GAGING STATION
ADDITIONS AND DISCONTINUATIONS

ADDITIONAL STATIONS		Date
B00470	Salt Slough near Stevinson	2-28-68
*B06725	Fresno River Eight Miles West of Madera	10- 1-67

DISCONTINUED STATIONS		
B00420	Mariposa Bypass near Crane Ranch	9-30-67
B03145	Stanislaus River at Riverbank	3- 7-67
C32100	North Fork Tule River at Springville	12- 6-66
B64260	Striped Rock Creek near Raymond	9-30-67
B64360	Middle Fork Chowchilla River near Nipinnawasee	9-30-67
B64400	East Fork Chowchilla River near Ahwahnee	9-30-67

* Publication of data only. Station previously installed.

TABLE B-4

DAILY MEAN DISCHARGE

The streamflow table is 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 t 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. 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.

NOTE

A comprehensive alphabetical list of historical, as well as current, streamflow gaging stations is published in the Department of Water Resources pentannual report, "INDEX OF STREAM GAGING STATIONS IN AND ADJACENT TO CALIFORNIA", last published in September 1966.

The index contains the period of record - with number of years missing - and more information for 781 stations in the San Joaquin Valley area. The index also identifies the agency from which a particular record may be obtained.

TABLE B-4

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	91	58	56	35	37	33	33	121	92	129	151	139	1
2	91	55	56	35	37	33	33	92	99	141	145	139	2
3	93	48	55	35	37	33	34	92	115	151 *	141	139 *	3
4	84	48	55	35	38	33	34	79	147	151	141	135	4
5	78	49	48	37	40	32	32	65	149	151	141	129	5
6	78	49	32	37	42	32	33	65	149	151	141	121	6
7	78	49	31	38	42	32	33	62	149	151	141	111	7
8	78	49	30	38	42	34	32	50	149	151	143	111	8
9	71	49 *	30	38	44	33	32	50	135	149	143	111	9
10	66	51	30	38	44	33	32	60	127	149	149	111	10
11	66	49	30	38	44	32	33	74	127	147	155	111	11
12	66	49	30	38	42	32	32	74	127	147	155	111	12
13	66	49	30	38	44	34	33	74	125	147	155	111	13
14	66	52	30	40	45	33	32	81	125	147	155	111	14
15	66	51	31	40	44	33	32	97	121	147	147	111	15
16	66	51	31	38	45	34	30	95	119	147	143	111	16
17	66	52 *	31	40	47	35	30	95	119	135	141	111	17
18	66	52	32	41	45	35	32	93	119	131	141	111	18
19	66	53	32	42	44	33	47	93	113	129	143	111	19
20	66	52	32	42	42	32	66	90	110	129	143	111	20
21	66	52	32	41	44	32	68	83	110	129	143	111	21
22	66	52	33	40	44	32	68	83	110	145	143	111	22
23	66	52	33	42	44	33	99	83	110	151	141	113	23
24	66	52	34	44	42	33	121	81	110	155	141	111	24
25	61	52	34	42	41	33	151	81	110	162	141	111	25
26	56	52	34	40	40	33	188	81	110	162	141	111	26
27	56	52	34	38	38	33	214	81	121	162	141	108 *	27
28	56	53	34 *	37	38	33	217	81	131	162	141	102	28
29	58	55 *	33	35 *	35 *	34 *	214 *	81 *	131	155 *	141	102	29
30	58	56	34	35		34	190	77	131	151	139	104	30
31	58		34	37		32		77		151	139		31
MEAN	68.9	51.4	35.5	38.5	41.8	33.0	74.2	80.4	123	147	144	115	MEAN
MAX.	93	58	56	44	47	35	217	121	149	162	155	139	MAX.
MIN.	56	48	30	35	35	32	30	50	92	129	139	102	MIN.
AC. FT.	4230	3060	2180	2370	2400	2030	4410	4940	7320	9050	8860	6820	AC.FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARDE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
79.5	220	2.74	4	28	1300	30	1.64	12	8		57690

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 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT 07-DATE		1938	--	294.00	USGS

Station located 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.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	895925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	2887	864	321	0	1338	1662	3264	4433	3653	4903	4466	4934
2	2885	867	284	0	1467	2045	3448	4438	3650	4703	4469	4932
3	2747	1006	284	0	1355	3382	3439	4446	3701	4700	4485	3728
4	2595	870	575	0	1894	1757	3424	4433	3860	4799	4395	868
5	2132	869	576	0	1040	2661	3427	4902	3886	4678	4396	866
6	1991	867	573	0	1214	3172	3429	4405	3866	4702	4394	1172
7	2200	867	464	0	1502	2525	4887	4406	3846	4709	4296	4044
8	2202	755	428	0	1503	3151	3228	4420	4133	4713	4273	4039
9	2135	861	212	0	1504	3184	3418	4429	4144	4715	4312	4681
10	2066	1058	140	0	1504	4916	3419	4395	4144	4653	4314	1188
11	2199	3218	320	0	2446	3271	3410	4420	4214	4802	4311	4528
12	1798	3225	609	0	1497	2915	3429	4876	4434	4822	4305	1183
13	2273	1068	608	0	1499	3224	3931	4417	4423	4910	3845	1524
14	1953	321	642	0	1874	3348	4901	4364	4424	4895	2714	3815
15	1724	1094	997	0	2048	3227	3935	4132	4127	4730	2542	4913
16	1718	962	1500	0	2227	3250	3947	4129	3868	4696	3520	4435
17	1169	997	1715	0	1547	4825	3942	3969	3873	4506	3530	4411
18	1093	964	209	70	2078	3058	3930	4188	3939	4384	3783	3952
19	1094	965	568	931	1868	3147	3864	4766	3881	4331	3682	3949
20	1095	900	468	1471	1978	3149	3489	4105	4141	4370	3951	3948
21	1096	759	533	863	2044	3097	3486	3933	4194	4755	3951	3929
22	1065	754	534	2233	2960	3147	3527	3932	4271	4906	3905	4890
23	997	717	213	1723	929	3440	4103	4181	4311	4906	4572	3914
24	865	642	0	1790	1243	4904	4384	4389	4387	4904	4905	3918
25	717	571	0	1920	2632	3245	4394	4243	4457	4901	4895	3922
26	716	572	102	2195	1143	3428	4244	4884	4529	4904	4890	3927
27	716	572	104	1737	2602	3395	3548	2649	4934	4906	4886	3933
28	717	573	176	1515	1868	3419	3362 b	1727	4926	4900	4890	3949
29	723 a	573	107	938	1100	3422	3491	1975	4910	4890	2029	4455
30	716	574	0	1152		3432	4432	4906	4898	4670	857	3957
31	864		0	1249		4921		4206		4503	1184	
MEAN	1585	964	428	638	1721	3281	3771	4164	4201	4738	3902	3597
MAX.	2887	3225	1715	2233	2960	4921	4901	4906	4934	4910	4905	4934
MIN.	716	321	0	0	929	1662	3228	1727	3650	4331	857	866
AC. FT.	97543	57332	26305	39247	98983	201757	224116	256062	249965	291304	239895	214024

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2751											1996533

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 45	121 35 05	SW 31 1S 4E				JUN 51-DATE		1951		0.00	USGS

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1971	634	150	0	817	995	1868	1828	2199	3065	2717	1905	1
2	2067	643	150	0	801	1375	1780	1859	2199	2785	2715	1905	2
3	1959	672	150	0	825	1375	1739	1963	2259	2879	2715	1906	3
4	1651	622	150	0	640	1289	1602	1963	2324	2879	2715	1619	4
5	1489	623	150	0	688	1336	1490	2001	2359	2874	2705	1574	5
6	1488	620	150	0	818	1344	1223	1943	2396	2839	2711	1579	6
7	1488	608	133	0	916	1378	1223	1989	2384	2779	2683	1579	7
8	1489	596	100	0	939	1371	1394	1954	2435	2708	2676	1581	8
9	1539	600	96	0	928	1325	1594	1963	2435	2796	2710	1533	9
10	1516	693	0	0	961	1325	1705	1968	2528	2720	2712	1410	10
11	1503	693	0	0	962	1362	1679	1968	2503	2710	2712	1408	11
12	948	693	0	0	944	1376	1815	1970	2361	2727	2732	1324	12
13	1548	664	0	0	970	1352	1819	1992	2416	2848	2659	1301	13
14	1212	652	0	0	998	1352	1851	1950	2413	2848	2480	1335	14
15	1212	733	0	0	1089	1018	2046	1761	2344	2802	2461	1402	15
16	1167	742	0	0	1023	978	2015	1625	2318	2777	2377	1416	16
17	882	810	0	0	1078	960	2049	1663	2346	2652	2350	1380	17
18	697	758	0	0	926	876	2033	1662	2340	2563	2349	1247	18
19	664	758	0	0	863	741	2070	1663	2412	2487	2373	1316	19
20	668	744	0	0	834	799	2069	1660	2463	2522	2396	1322	20
21	721	502	0	809	875	831	2069	1666	2535	2678	2433	1321	21
22	722	426	0	754	875	821	1834	1719	2614	2754	2447	1321	22
23	713	374	0	100	840	1277	1790	1822	2636	2849	2393	1399	23
24	686	425	0	133	754	1251	1838	1930	2626	2916	2229	1569	24
25	618	425	0	216	753	1311	1937	1930	2727	3057	2233	1702	25
26	602	425	0	688	663	1515	1913	1930	2740	3170	2189	1729	26
27	577	416	0	688	587	1583	1867 b	1921	2737	3154	2063	1835	27
28	577 a	403	0	687	584	1705	1741	1938	2913	3122	2017	1837	28
29	577	365	0	700	727	1735	1704	1945	2913	3021	2012	1837	29
30	554	395	0	685		1883	1713	2158	2914	2930	1904	1866	30
31	598		0	673		1884		2152		2796	1905		31
MEAN	1100	590	39.6	198	851	1281	1782	1886	2493	2829	2444	1549	MEAN
MAX.	2067	810	150	809	1089	1884	2070	2158	2914	3170	2732	1906	MAX.
MIN.	554	365	0	0	584	741	1223	1625	2199	2487	1904	1247	MIN.
AC. FT.	67690	35135	2438	12165	48948	78789	105902	115946	148342	173964	150294	92148	AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1421											1031761

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 OHLT	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 47 11	120 23 05	NW 19 13S 15E									

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	339	39	45	5	62	152	193	279	374	445	411	320
2	279	40	45	3	54	161	221	284	376	436	438	320
3	216	40	44	2	51	174	224	302	378	427	462	322
4	209	40	44	2	46	179	238	304	378	427	462	332
5	208	43	44	0	44	180	244	288	365	438	462	318
6	160	43	44	0	62	180	226	290	367	450	457	302
7	128	44	45	0	78	188	222	292	407	447	447	300
8	130	46	45	0	72	191	228	294	396	445	457	296
9	132	45	44	36	67	185	258	300	383	445	474	298
10	134	45	44	44	68	188	300	314	387	438	476	308
11	137	45	43	24	67	188	320	304	392	425	476	334
12	125	45	41	16	65	189	322	294	392	433	471	332
13	114	43	40	13	66	184	334	286	392	433	450	322
14	95	40	38	10	66	165	334	278	394	436	440	302
15	80	40	37	8	72	159	334	280	396	466	454	292
16	89	40	172	6	73	147	326	282	396	471	464	298
17	101	40	290	7	60	140	318	280	396	459	464	308
18	101	41	284	39	56	144	320	278	405	466	459	320
19	98	43	250	32	57	129	302	278	440	486	459	320
20	95	45	170	46	56	133	286	278	447	490	454	320
21	92	49	95	37	68	158	290	276	427	481	457	330
22	89	51	68	40	75	174	310	274	425	481	452	328
23	89	50	42	50	90	174	343	270	427	483	431	326
24	89	50	36	47	119	176	337	268	429	474	414	332
25	70	49	35	44	137	184	314	268	425	478	400	332
26	46	49	22	43	126	200	304	270	427	490	365	328
27	45	49	16	43	113	199	290	290	433	495	341	318
28	63	49	14	44	125	222	290	320	433	493	354	290
29	76	48	11	63	138	234	288	330	438	493	354	272
30	56	47	10	77		218	282	341	445	457	343	256
31	41		7	72		218		356		422	330	
MEAN	120	45	70	28	77	178	287	292	406	458	432	313
MAX.	339	51	290	77	138	234	343	356	447	495	476	334
MIN.	41	39	7	0	44	129	193	268	365	422	330	256
AC. FT.	7390	2650	4290	1690	4430	10930	17050	17950	24140	28190	26530	18600

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
226	507	4.86	7	29	1000	0					163950

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.

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B07610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0		0	4	0	12	3	3	0	0	12	0	1
2	0		0	2	0	12	12	0	0	0	7	0	2
2	0		0	0	0	12	12	0	0	0	9	0	3
4	0		0	0	0	12	3	0	8	0	12	0	4
5	0		0	0	0	4	0	0	3	0	12	0	5
6	0		0	0	9	9	0	0	0	8	12	9	6
7	0		0	0	12	12	0	0	0	12	12	7	7
8	0		0	0	12	7	0	5	0	12	7	0	8
9	9		0	0	12	0	9	12	0	12	0	0	9
10	4		0	0	12	0	12	12	0	12	0	0	10
11	0		0	14	12	0	12	3	9	4	0	0	11
12	0	N	0	11	7	0	5	0	12	0	9	0	12
12	0	O	0	2	0	0	0	0	4	0	12	0	13
14	0		0	0	0	0	0	0	0	0	5	0	14
15	0		0	0	0	0	9	0	0	0	0	0	15
16	0	F	0	0	0	0	7	0	0	0	9	9	16
17	0	L	147	0	0	0	0	0	8	9	4	12	17
18	0	O	255	0	0	0	0	0	12	12	0	12	18
19	0	W	260	0	9	0	0	0	12	12	0	4	19
20	0		220	7	12	0	9	9	12	12	0	0	20
21	0		162	8	12	0	3	12	5	12	5	8	21
22	0		120	17	8	0	0	12	0	7	12	4	22
23	0		86	12	0	0	0	3	0	0	12	0	23
24	0		59	24	0	0	0	0	0	5	7	0	24
25	0		49	12	0	5	0	0	9	12	0	0	25
26	0		45	6	0	12	0	0	12	12	0	0	26
27	0		37	18	0	8	0	0	7	12	9	0	27
28	0		28	22	5	0	4	9	0	7	3	0	28
29	0		20	9	12	0	12	12	0	9	0	0	29
30	0		14	0		0	12	12	0	9	5	0	30
31	0		8	0		0		4		12	3		31
MEAN	0.4		48.7	5.4	4.6	3.4	4.1	3.5	3.8	6.5	5.7	2.2	MEAN
MAX.	9		260	24	12	12	12	12	12	12	12	12	MAX.
MIN.	0		0	0	0	0	0	0	0	0	0	0	MIN.
AC. FT.	26		3000	333	266	208	246	214	224	401	353	129	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
7.4	265	2.79	12	18	1100	0		10	1	0000	5400

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 38	120 30 02	N½12 11S 13E	8920a 8200	10.52b	6-24-41 6- 5-52	OCT 40-DATE		1940		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.

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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B67920	BIG CREEK DIVERSION NEAR FISH CAMP

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	3.6	2.6	22	0.0	17	15	18	30	9.5	3.8	2.8	2.3
2	3.6	4.7	12	0.0	19	16	17	30	9.5	1.8	2.4	2.2
3	3.6	4.7	12	0.0	19	16	17	30	9.0	3.5	2.4	2.2
4	3.6	4.7	11	0.0	18	15	13	29	9.0	3.5	2.4	2.2
5	3.6	4.7	15	0.0	4.3	15	13	28	9.0	3.5	2.4	2.1
6	3.6	4.7	15	0.0	3.2	15	13	26	8.1	3.6	2.3	2.1
7	3.6	4.7	15	0.0	3.2	15	13	24	9.5	3.8	1.5	2.1
8	3.4	5.5	14	0.0	3.2	15	13	23	9.5	3.5	2.6	2.1
9	3.4	6.4	13	0.0	3.5	15	13	22	8.8	2.8	2.6	2.1
10	3.4	6.4	11	0.0	4.6	16	13	22	8.1	2.8	2.4	2.1
11	3.4	6.4	7.7	0.0	4.6	15	13	19	7.6	2.8	2.4	2.2
12	3.4	6.1	0.6	0.0	4.6	15	13	19	7.2	2.4	2.4	2.2
13	3.4	6.1	0.0	0.0	4.6	14	13	20	7.0	2.3	2.9	2.2
14	3.4	7.4	0.0	0.0	4.5	16	13	25	7.0	1.3	2.8	2.2
15	3.2	7.0	8.0	0.0	4.5	15	13	28	6.6	1.3	2.8	2.2
16	3.2	6.7	13	0.0	4.6	13	13	26	6.3	1.3	2.8	2.3
17	3.2	6.4	8.4	0.0	7.6	15	13	24	6.3	1.5	2.8	2.2
18	3.0	7.0	6.4	0.0	11	16	17	20	6.1	1.5	2.8	2.2
19	2.6	8.0	4.9	0.0	9.8	14	20	19	6.1	1.3	3.0	2.2
20	2.6	8.0	3.4	0.0	11	13	20	18	5.9	1.3	3.4	2.3
21	2.6	8.0	2.0	0.0	11	14	20	18	5.7	1.3	3.5	2.3
22	2.6	8.0	0.7	0.0	10	14	20	16	5.5	1.3	3.2	2.3
23	2.6	8.0	0.0	0.0	10	14	20	15	5.2	1.2	2.9	2.3
24	2.6	8.0	0.0	0.0	11	14	20	13	5.2	1.3	2.8	2.6
25	2.6	8.0	0.0	5.5	11	14	20	12	5.2	2.9	2.6	2.6
26	2.6	8.0	0.0	4.3	11	15	20	11	5.0	2.9	2.4	2.6
27	2.6	7.7	0.0	3.8	12	15	20	11	5.0	2.8	2.4	2.4
28	2.6	7.7	0.0	3.8	13	16	21	11	4.8	2.9	2.4	2.4
29	2.6	6.4	0.0	9.3	14	16	30	10	4.8	2.8	2.3	2.6
30	2.6	23	0.0	12		17	31	9.8	4.8	2.8	2.3	2.6
31	2.6		0.0	12		16		9.8		2.8	2.3	
MEAN	3.1	7.0	6.3	1.6	9.1	15.0	17.1	20.0	6.9	2.4	2.6	2.3
MAX.	3.6	23	22	12	19	17	31	30	9.5	3.8	3.5	2.6
MIN.	2.6	2.6	0.0	0.0	3.2	13	13	9.8	4.8	1.2	1.5	2.1
AC. FT.	189	419	387	101	525	920	1018	1227	411	148	161	136

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
7.8	33	2.15	4	29	1130						5642

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

Station located 195 feet upstream from road culvert, 1.4 miles southeast of Fish Camp. This is regulated diversion from Big Creek to Lewis Fork, Fresno River. Stage-discharge relationship at time affected by ice and extreme high flows affected by 36-inch culvert pipe below station. Altitude of gage is approximately 5,400 feet (from topographic map). Records furnished by Madera Irrigation District for 1968 water year.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B67325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	12	8.8	21	18	27	54	69	71	30	12	4.7	2.8	1
2	13 *	8.8	22	17	28	52	65	71 *	29	9.6*	4.2	3.1	2
3	17	8.8	23	16 *	29	52	60 *	69	28	8.2	3.7	2.2	3
4	16	8.6	23	17	29	51 *	55	69	27	9.1	3.6	1.6*	4
5	15	9.2	50 *	17	29 *	50	56	68	27 *	8.7	3.6*	1.4	5
6	15	9.2*	30	17	29	50	55	63	27	8.2	3.4	1.4	6
7	14	9.1	27	17	29	51	52	61	33	9.0	3.5	1.5	7
8	13	8.8	25	17	30	68	52	58	34	9.2	3.4	1.8	8
9	12	10	22	17	37	60	53	56	29	9.1	3.5	1.9	9
10	12	11	22	23	38	54	55	54	27	7.6	3.5	1.8	10
11	12	9.8	22	23	33	52	57	53	25	7.0	3.6	2.0	11
12	12	10	22	20	32	50	58	54	23	6.6	3.6	2.3	12
13	12	10	15	19	31	56	57	56	22	6.4	3.4	2.4	13
14	12	13	17	19	34	51	56	64	20	6.5	3.6	2.2	14
15	12	14	21	45	32	51	57	64	20	6.9	3.3	2.6	15
16	12	13	24	36	35	57	56	61	19	5.9	3.1	2.6	16
17	12	12	22	27	82	59	54	55	19	5.6	3.1	2.5	17
18	12	13	23	24	68	53	52	52	18	5.1	2.9	2.2	18
19	11	29	21	22	57	51	56	51	18	4.7	3.2	2.7	19
20	10	25	22 *	22	115	52	56	51	17	4.1	4.1	3.1	20
21	9.8	19	23	22	86	52	53	50	17	3.9	4.2	3.7	21
22	10	17	25	23	71	50	51	48	16	3.6	4.4	4.3	22
23	10	17	25	23	65	49	53	47	16	3.4	3.6	3.8	23
24	11	17	24	23	63	49	53	44	15	3.1	2.9	3.2	24
25	10	17	23	23	60	51	55	41	15	3.3	2.8	2.7	25
26	10	17	22	27	57	50	57	40	14	4.3	2.7	3.1	26
27	10	17	23	26	56	47	59	38	13	4.2	2.3	3.0	27
28	10	18	23	21	56	49	59	36	13	4.0	2.0	2.9	28
29	10	19	22	25	55	52	63	35	12	4.3	2.0	3.2	29
30	10	22	21	26		54	72	33	13	4.5	1.9	3.1	30
31	9.5		18	28		55		32		5.0	1.4		31
MEAN	11.8	14.0	23.3	22.6	48.0	52.7	56.9	53.1	21.2	6.2	3.3	2.6	MEAN
MAX.	17	29	50	45	115	68	72	71	34	12	4.7	4.3	MAX.
MIN.	9.5	8.6	15	16	27	47	51	32	12	3.1	1.4	1.4	MIN.
AC. FT.	727	835	1434	1388	2763	3237	3384	3263	1261	381	201	153	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
26.3	164	1.77	2	20	0730	0.4	0.85	8	31	1150	19030

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	DATE	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 2,520 feet (from topographic map). Flow recorded at this station includes water divereted from South Fork Merced River drainage via Big Creek Diversion shown on preceding table.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	3.4	2.4	4.1	6.2E	5.6	9.5	9.2	3.9	3.0	1.3	0.5	0.4
2	3.6*	2.4	3.9	6.3E	5.5	8.8	9.5	3.8*	2.9	1.2*	0.6	0.4
3	3.8	2.6	3.9	6.4#	5.7	8.6	9.5*	3.7	2.8	1.2	0.7	0.4
4	3.8	2.3	4.0	6.5E	5.8	8.1*	9.0	3.6	2.7	1.2	0.7	0.4*
5	3.6	2.4	12 *	6.6	6.1*	7.7	9.0	3.6	2.8*	1.1	0.7*	0.4
6	3.6	2.3	6.3	5.9	6.4	7.4	8.7	3.5	2.8	1.1	0.7	0.4
7	3.6	2.4	5.9	6.0	6.4	7.6	8.0	3.5	3.9	1.1	0.6	0.3
8	3.4	2.4	5.4	5.0	6.5	12	7.5	3.7	3.8	1.2	0.7	0.3
9	3.4	2.4	4.7	3.9	8.5	10	7.0	3.6	3.6	1.3	0.6	0.3
10	3.3	2.4	4.5	5.3	8.5	9.2	6.8	3.5	3.3	1.1	0.6	0.4
11	3.0	2.4	4.4	5.5	7.6	8.5	6.6	3.4	3.1	1.0	0.6	0.4
12	2.8	2.3	4.2	4.9	7.0	8.3	6.4	3.5	2.9	1.0	0.6	0.4
13	3.0	2.4	5.7	4.7	6.8	8.9	6.2	4.1	2.7	1.0	0.8	0.4
14	3.0	2.3	4.8	4.7	7.7	8.7	6.0	5.9	2.6	1.0	1.0	0.4
15	3.0	2.3	4.1	8.6	7.3	8.6	5.8	6.0	2.4	1.1	0.9	0.4
16	3.0	2.6	3.9	7.9	7.8	9.6	5.8	5.2	2.2	1.1	0.8	0.5
17	2.8	2.6	3.9	6.8	21	9.9	5.9	4.3	2.1	1.0	0.8	0.4
18	2.7	3.1	3.6	6.0	17	9.5	5.4	3.9	1.9	1.0	0.8	0.4
19	2.7	5.2	4.4	5.4	13	9.2	5.2	3.9	0.9	0.9	0.8	0.4
20	2.8	5.3	4.8	5.2	30	9.0	5.2	3.9	1.8	0.9	1.0	0.5
21	2.7	4.1	4.9E	5.2	21	8.9	5.0	3.9	1.7	0.8	1.0	0.6
22	2.7	3.9	5.0E	5.4	16	8.7	4.9	3.9	1.7	0.8	0.9	0.8
23	2.8	3.7	5.1E	5.5	14	8.4	4.8	3.9	1.6	0.8	0.8	0.5
24	2.7	3.5	5.2E	5.7	13	8.6	4.7	3.9	1.6	0.8	1.7	0.4
25	2.7	3.4	5.4E	5.6	12	8.9	4.6	3.7	0.9	0.8	1.0	0.4
26	2.6	3.3	5.5E	5.5	11	8.7	4.6	3.6	1.4	0.8	0.6	0.4
27	2.6	3.2	5.6E	5.6	11	8.2	4.4	3.5	1.3	0.8	0.6	0.4
28	2.7	3.3	5.7E	5.8	10	8.3	4.1	3.3	1.3	0.7	0.6	0.5
29	2.7	3.3	5.9E	6.2	9.8	8.4	4.0	3.1	1.3	0.7	0.6	0.4
30	2.6	4.3	6.0E	5.0		8.2	4.0	3.0	1.3	0.8	0.5	0.4
31	2.6*		6.1E	5.5		7.9		3.0		0.7	0.4	
MEAN	3.0	3.0	5.1E	5.8	10.6	8.8	6.3	3.9	2.3	1.0	0.8	0.4
MAX.	3.8	5.3	12	8.6	30	12	9.5	6.0	3.9	1.3	1.7	0.8
MIN.	2.6	2.3	3.6	3.9	5.5	7.4	4.0	3.0	0.9	0.7	0.4	0.3
AC. FT.	186	180	315E	355	611	540	372	237	135	60	46	25

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

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
4.2	42	3.78	2	20	0815	0.2	2.41	9	4	1745	3062

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE		1959	DATE	0.00	

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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0	2.0	165 a							1
2				0.0	1.5	12							2
3				0.0	0.0	4.0							3
4				0.0	0.0	0.0							4
5				0.0	0.0	0.0							5
6				0.0	0.0	0.0							6
7				0.0	0.0	0.0							7
8				0.0	0.0	0.0							8
9				0.0	0.0	0.0							9
10				0.0	0.0	0.0							10
11				0.0	0.0	2.0							11
12	N	N	N	0.0	0.0	5.0	N	N	N	N	N	N	12
13	O	O	O	0.0	0.0	3.0	O	O	O	O	O	O	13
14				0.0	0.0	2.5							14
15				0.0	0.0	2.0							15
16	F	F	F	2.0	0.0	7.5	F	F	F	F	F	F	16
17	L	L	L	19	0.0	6.0	L	L	L	L	L	L	17
18	O	O	O	25	0.0	8.5	O	O	O	O	O	O	18
19	W	W	W	13	0.0	9.0	W	W	W	W	W	W	19
20				10	5.0	8.0							20
21				8.0	13	5.5							21
22				4.0	55	2.8							22
23				3.0	39	0.5							23
24				2.0	6.0	0.0							24
25				3.0	2.0	0.0							25
26				4.0	0.0	0.0							26
27				4.0	0.0	0.0							27
28				8.0	13 a	0.0							28
29				4.0	410 a	0.0							29
30				3.0		0.0							30
31				3.0		0.0							31
MEAN				3.7	18.8	7.8							MEAN
MAX.				25	410	165							MAX.
MIN.				0.0	0.0	0.0							MIN.
AC. FT.				228	1084	483							AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *
a — INFLUENCED BY CVP DISCHARGE INTO FRESNO RIVER

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
2.5	500	3.35	3	1	1000						1795

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 58 30	120 12 12	NE 15 11S 16E				36-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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B64300	WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	4.6	2.1	8.0*	6.6	9.3	1.8	0.4				1
2		0.0*	2.3	2.0	5.5	6.1	13 *	1.7	0.4				2
3	*	0.0	1.8	2.0	5.3	5.7	5.3	1.7	0.3	*			3
4		0.0	1.5*	1.8*	4.6	5.5	4.8	1.6	0.3				4
5		0.0	13	1.8	4.1	5.1*	4.6	1.7	0.3				5
6		0.0	5.3	1.8	3.8	4.8	4.2	1.6*	0.4*		*	*	6
7		0.1	3.2	1.8	3.5	4.6	3.8	1.5	0.7				7
8		0.1	2.7	1.8	3.2	25	3.6	1.4	0.9				8
9		0.1	2.1	1.7	6.3	14	3.3	1.3	1.0				9
10		0.1	1.8	4.6	10	7.5	3.1	1.3	0.7				10
11		0.1	1.7	7.8	5.9	5.7	3.1	1.3	0.4				11
12	N	0.1	1.6	3.8	4.6	4.9	3.1	2.0	0.3	N	N	N	12
13	O	0.1	1.4	2.8	4.2	15	2.9	4.1	0.2	O	O	O	13
14		0.1	1.3	2.6	7.3	10	2.8	12	0.2				14
15		0.2	1.3	8.0	5.5	6.6	2.8	4.1	0.1				15
16	F	0.2	1.3	5.9	5.9	8.5	2.7	2.8	0.1	F	F	F	16
17	L *	0.2	1.3	3.6	63	21	2.9	2.1	0.1	L *	L	L *	17
18	O	0.2	2.5	3.1	38	13 *	2.7	1.8	0.0	O	O	O	18
19	W	0.7	3.1	2.7	17	9.1	2.5	1.8	0.0*	W	W	W	19
20		0.8	2.7	2.6	49	7.3	2.6	1.7	0.0				20
21		1.1	2.1	2.2	38	6.3	2.5	1.4	0.0				21
22		0.8	1.9	2.1	23	5.7	2.2	1.2	0.0				22
23		0.8	2.0	1.9	16	5.1	2.2	1.2	0.0				23
24		0.8	2.2	1.9	12	4.8	2.2	1.2	0.0				24
25		0.8	2.6	1.9	11	4.6	2.3	1.1	0.0				25
26		0.8	2.3	1.9	9.4	4.2	2.2	1.0	0.0				26
27		0.8	2.9	2.6	8.3	3.9	2.2	0.9	0.0				27
28		0.7	2.9	2.9	7.5	3.8	2.1	0.7	0.0				28
29		1.0	2.7	2.2	6.8	3.5	1.9	0.5	0.0				29
30		5.3	2.5	3.1		3.3	1.9	0.3	0.0				30
31			2.3	17		3.2		0.4					31
MEAN		0.5	2.7	3.4	13.3	7.6	3.5	1.9	0.2				MEAN
MAX.		5.3	13	17	63	25	13	12	1.0				MAX.
MIN.		0.0	1.3	1.7	3.2	3.2	1.9	0.3	0.0				MIN.
AC. FT.		32	164	206	767	465	208	117	13				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
2.7	113	4.16	2	17	1630	0.0		10	1	0000	1973

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	3590	8.67	4-3-58	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).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B64200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.1	4.6	41	21	51	40	38	16	5.3E				1
2	3.4*	4.7	29	20	39	38	77	16 *	4.9E	*			2
3	3.5	4.6*	21	20 *	37	36	63	14	4.5E				3
4	4.0	4.6	18	19	38	34 *	48 *	14	4.1E			*	4
5	4.9	4.6	32 *	18	35 *	33	43	13	3.7#		*		5
6	5.5	4.7	64	18	32	32	42	13	3.7E				6
7	5.3	5.0	35	18	31	32	40	13	3.7E				7
8	5.2	5.0	30	17	29	61	38	13	4.7E				8
9	4.7	5.2	26	17	34	117	36	13	7.2E				9
10	4.3	5.0	21	20	55	64	33	12	7.3E				10
11	4.2	5.2	19	42	46	52	31	12	6.0E				11
12	3.8	5.3	18	37	36	47	30	13	4.7E	N	N	N	12
13	3.8	5.5	18	29	32	59	29	16	4.2E	O	O	O	13
14	3.7	5.5	16	25	33	80	28	29	3.6E				14
15	3.7	5.5	15	30	37	64	27	37 E	3.1E				15
16	3.8	6.0	14	48	34	61	26	22 E	2.7E	F *	F	F	16
17	3.8	6.4	14	37	82	92	27	18 E	2.2E	L	L	L	17
18	3.6	6.6	17	31	191	95	26	16 E	1.8E	O	O	O *	18
19	3.6	12	33	27	84	76 *	25	14 E	1.5E	W	W	W	19
20	3.6	28	34	26	114	66	25	13 E	1.2E		*		20
21	3.7	18	24	27	157	59	24	12 E	1.0E				21
22	3.7	13	20	28	113	55	23	11 E	0.8E				22
23	3.8	11	19	29	80	52	22	11 E	0.7E				23
24	4.2	11	20	30	68	50	21	10 E	0.5E				24
25	4.6	10	23	30	61	47	21	9.5E	0.4E				25
26	4.9	10	26	30	55	46	20	8.7E	0.2E				26
27	4.7	9.1	28	30	51	43	20	8.1E	0.1E				27
28	4.6	9.5	28	26	47	41	18	7.5E	0.0E				28
29	4.7	9.8	26	26	44	39	18	7.0E	0.0E				29
30	4.7	20	25	28		37	17	6.4E	0.0E				30
31	4.7		23	40		35		6.0E					31
MEAN	4.2	8.5	25.1	27.2	60.2	54.3	31.2	13.7E	2.8E				MEAN
MAX.	5.5	28.0	64.0	48.0	191	117	77.0	37.0E	7.3E				MAX.
MIN.	3.1	4.6	14.0	17.0	29.0	32.0	17.0	6.0E	0.0E				MIN.
AC. FT.	257	507	1541	1674	3463	3338	1857	841E	166E				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
18.8	284	571.53	2	18	0215	0.0		6	28		13640

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 15 36	119 56 42	SE 1 8S 18E	8500E	583.9	2-1-63	NOV 59-DATE		1959		0.00	USCGS

Station located 6.0 miles northwest of Raymond on Raymond Road. Elevation of station is approximately 600 feet. U. S. Coast and Geodetic Survey datum. This station was installed in cooperation with Madera County and Chowchilla Water District. Prior to 1962, high flow records were insufficient for publication. Discharge measurements and partial flow records are available in DWR files. Drainage area is 201.7 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	2.3		0.0	17	7.4	114 *		*		*		
2	2.1		0.0	14 *	30 *	160	*				*	
3	2.2*		0.0	11	30	11						
4	0.3		0.0	9.1	21	0.0						*
5	0.0		0.0*	7.6	16	0.0			*			
6	0.0		0.0	6.3	11	0.0						
7	0.0	*	0.0	5.6	0.2	0.0						
8	0.0		0.0	4.4	0.0	0.0						
9	0.0		0.0	2.6	0.0	0.0						
10	0.0		0.0	1.1	0.0	0.0						
11	0.0		0.0	1.4	0.0	0.0						
12	0.0	N	0.0	13	0.0	0.0	N	N	N	N	N	N
13	0.0	O	0.0	25	0.0	0.0	O	O	O	O	O	O
14	0.0		0.0	20	0.0	0.0						
15	0.0		0.0	18 *	0.0*	0.0						
16	0.0	F	0.0	15	0.0	0.0	F	F *	F	F	F	F
17	0.0	L	0.0	11	0.0	0.0	L *	L	L *	L	L	L
18	0.0	O	45	7.7	0.0	0.0*	O	O	O	O *	O	O *
19	0.0	W	245	4.8	0.0	0.0	W	W	W	W	W *	W
20	0.0*	*	245	3.3	0.0	0.0						
21	0.0		205 *	13	0.0	0.0						
22	0.0		156	20	0.0	0.0						
23	0.9		121	22	0.0	0.0						
24	1.8		93	20	7.0	0.0						
25	5.5*		68	26	36	0.0						
26	15		56	22	7.6	0.0						
27	5.8		49	16	0.0	0.0						
28	0.1		41	22	0.0	0.0						
29	0.0		34	23		0.0						
30	0.0		26	18		0.0						
31	0.0		21	13		0.0						
MEAN	1.2		45.3	13.3	5.7	9.2						
MAX.	15		245	26	36	160						
MIN.	0.0		0.0	1.1	0.0	0.0						
AC. FT.	71		2787	819	330	565						

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
6.3	271	8.47	3	2	0045	0.0		10	4	1200	4572

LOCATION			* MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 08 52	120 36 17	SE13 9S 12E	11250	16.14	4-26-67	DEC 64-DATE		1964	DATE	90.00	USGS

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B62400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	17	4.2	23 *	12	13	2.8	0.4				1
2		0.0*	7.1	4.0	15	13	23 *	2.5	0.3				2
3	*	0.0	4.9	3.8	12	12	13	2.2	0.3	*			3
4		0.0	4.0*	3.7	10	11	10	2.1	0.3				4
5		0.0	15	3.7*	9.2	10 *	9.5	2.1	0.2				5
6		0.0	12	3.7	8.4	8.4	8.9	2.1*	0.2*		*	*	6
7		0.0	8.1	3.5	7.6	8.9	8.1	2.0	0.2				7
8		0.0	8.4	3.5	7.1	50	7.8	1.9	0.2				8
9		0.0	6.6	3.5	13	35	7.3	1.8	0.3				9
10		0.0	5.3	7.8	19	19	6.8	1.6	0.3				10
11		0.0	4.7	16	13	15	6.4	1.6	0.3				11
12	N	0.0	4.4	9.5	11	13	6.2	2.4	0.2	N	N	N	12
13	O	0.4	4.0	7.3	10	43	5.7	3.7	0.2	O	O	O	13
14		1.4	3.7	6.6	9.8	48	5.7	8.1	0.2				14
15		1.7	3.5	14	8.9	30	5.5	4.7	0.2				15
16	F	1.8	3.5	13	10	28	5.3	3.5	0.2	F	F	F	16
17	L	1.9	3.4	9.8	165	50	5.3	2.8	0.2	L *	L	L *	17
18	O	2.1	6.2	8.1	93	41 *	5.1	2.4	0.1	O	O	O	18
19	W *	12	12	7.1	38	30	4.7	2.0	0.0*	W	W	W	19
20	*	7.3	10	6.4	102	24	4.4	1.8	0.0				20
21		3.7	7.1	5.9	111	20	4.4	1.7	0.0				21
22		2.6	6.4	5.7	61	18	4.2	1.3	0.0				22
23		2.2	5.9	5.3	38	16	4.0	1.2	0.0				23
24		2.0	5.9	5.3	28	14	4.0	1.2	0.0				24
25		2.0	6.2	5.3	23	13	3.8	1.2	0.0				25
26		2.0	6.2	5.1	19	13	3.8	1.0	0.0				26
27		1.9	6.2	6.2	17	12	3.7	0.9	0.0				27
28		1.9	5.5	8.4	15	11	3.4	0.8	0.0				28
29		2.1	5.1	6.4	13	10	3.0	0.7	0.0				29
30		13	4.7	6.8		9.5	2.9	0.5	0.0				30
31			4.5	45		8.9		0.5					31
MEAN		2.1	6.7	7.9	31.4	20.9	6.6	2.1	0.1				MEAN
MAX.		13	17	45	165	51	23	8.1	0.4				MAX.
MIN.		0.0	3.4	3.5	7.1	8.4	2.9	0.5	0.0				MIN.
AC. FT.		123	412	485	1805	1283	395	129	9				AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
6.4	377	5.76	2	17	1700	0.0		10	1	0000	4640

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

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles (revised). Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1			0	6.1	28	15	13	2.0	0.5			
2			0	5.8	23	15	20	1.9	0.4			
3			0	5.5	20	14	25	1.8	0.4			
4			0	5.2	16	13	18	1.7	0.3			
5			0	5.2	14	12	14	1.6	0.3			
6			0	4.9	13	11	13	1.5	0.3			
7			0	4.9	13	11	11	1.4	0.2			
8			0	4.9	12	15	11	1.0	0.1			
9			0	4.9	12	56	9.0	0.9	0			
10			0	5.2	12	33	8.6	0.9	0			
11			0	6.1	20	24	7.8	0.9	0			
12	N	N	0	11	18	19	7.0	0.9	0	N	N	N
13	O	O	0	11	16	21	6.1	0.9	0	O	O	O
14			0	8.6	14	48	5.8	0.9	0			
15			2.0	8.6	14	52	5.5	0.9	0			
16	F	F	5.5	11	14	34	4.9	2.0	0	F	F	F
17	L	L	4.9	13	16	34	4.6	3.4	0	L	L	L
18	O	O	6.4	11	202	53	4.3	2.8	0	O	O	O
19	W	W	7.4	9.8	93	44	4.0	2.2	0	W	W	W
20			11	9.0	53	32	4.0	1.8	0			
21			12	8.6	135	25	3.8	1.5	0			
22			9.8	8.2	141	20	3.6	1.3	0			
23			7.8	8.2	70	20	3.4	1.2	0			
24			7.0	8.6	38	18	3.2	1.0	0			
25			6.7	8.6	28	16	3.0	0.9	0			
26			6.7	8.2	23	15	3.0	0.9	0			
27			6.7	8.6	20	14	2.8	0.8	0			
28			7.0	11	18	13	2.8	0.7	0			
29			7.0	12	17	12	2.6	0.7	0			
30			6.7	12		11	2.4	0.6	0			
31			6.4	13		11		0.6				
MEAN			3.9	8.3	38	24	7.6	1.3	0.1			
MAX.			12	13	202	56	25	3.4	0.5			
MIN.			0	4.9	12	11	2.4	0.6	0			
AC. FT.			240	513	2208	1450	451	82	5			

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
6.8	245		2	18	0900	0.0		10	1	0000	4949

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. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B06170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.5	0.5	1.2	1.3	2.6	1.7	1.4	0.3					1
2	0.5	0.5	0.8	1.3	2.0	1.6	3.4	0.3					2
3	0.5	0.5	0.8	1.3	1.7	1.5	2.3	0.3					3
4	0.5	0.5	0.7	1.2	1.5	1.5	1.7	0.3					4
5	0.5	0.5	0.8	1.2	1.5	1.4	1.5	0.2					5
6	0.5	0.5	0.8	1.2	1.4	1.3	1.2	0.2					6
7	0.5	0.5	0.8	1.3	1.3	1.4	1.1	0.2					7
8	0.5	0.5	0.8	1.3	1.3	2.9	1.0	0.2					8
9	0.5	0.5	0.8	1.3	1.4	4.0	1.0	0.2					9
10	0.5	0.5	0.8	1.7	1.5	2.3	0.8	0.2					10
11	0.5	0.5	0.9	2.0	1.5	1.8	0.8	0.2					11
12	0.5	0.5	0.9	1.8	1.4	1.6	0.7	0.2	N	N	N	N	12
13	0.5	0.5	0.9	1.5	1.3	4.2	0.6	0.3	O	O	O	O	13
14	0.5	0.5	0.9	1.3	1.2	6.2	0.5	0.3					14
15	0.5	0.5	0.9	1.9	1.1	3.2	0.5	0.3					15
16	0.5	0.5	0.9	1.8	1.3	2.8	0.5	0.3	F	F	F	F	16
17	0.5	0.5	1.0	1.6	6.6	2.9	0.5	0.3	L	L	L	L	17
18	0.5	0.6	1.5	1.4	8.0	2.6	0.5	0.3	O	O	O	O	18
19	0.5	1.6	2.5	1.3	3.0	2.3	0.5	0.2	W	W	W	W	19
20	0.5	0.9	2.5	1.2	2.9	2.0	0.5	0.2					20
21	0.5	0.8	1.9	1.2	8.2	1.8	0.5	0.2					21
22	0.5	0.7	1.6	1.2	6.2	1.7	0.5	0.2					22
23	0.5	0.6	1.5	1.1	3.0	1.7	0.5	0.2					23
24	0.5	0.6	1.4	1.1	2.6	1.5	0.5	0.2					24
25	0.5	0.6	1.3	1.1	2.3	1.5	0.5	0.2					25
26	0.5	0.6	1.3	1.1	2.1	1.5	0.4	0.2					26
27	0.5	0.6	1.3	1.4	2.0	1.4	0.4	0.1					27
28	0.5	0.6	1.3	1.9	1.9	1.2	0.4	0					28
29	0.5	0.6	1.3	1.8	1.8	1.0	0.3	0					29
30	0.5	1.3	1.3	1.5		1.0	0.3	0					30
21	0.5		1.3	2.4		1.0		0					21
MEAN	0.5	0.6	1.2	1.4	2.6	2.1	0.8	0.2					MEAN
MAX.	0.5	1.6	2.5	2.4	8.2	6.2	3.4	0.3					MAX.
MIN.	0.5	0.5	0.7	1.1	1.1	1.0	0.3	0					MIN.
AC. FT.	31	37	73	89	148	128	50	12					AC.FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
0.8	23		2	21	1900	0.0		5	28		568

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

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B55400	BEAR CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1			0.0	0.8	11 #	2.9	3.0	0.3	0.1			
2		*	0.0	0.8	6.3	2.7	8.1*	0.3	0.1			
3	*		0.0	0.6	4.3	2.3	4.6	0.3	0.1	*		
4			0.0*	0.6	3.4	2.1	3.4	0.3	0.0			
5			0.0	0.6*	2.7	1.9*	2.9	0.2	0.0			
6			0.0	0.5	2.3	1.7	2.6	0.2#	0.0*		*	*
7			0.0	0.5	2.1	1.4	2.2	0.2E	0.0			
8			0.0	0.5	1.8	8.7	1.9	0.2E	0.0			
9			0.0	0.5	2.1	10	1.8	0.2E	0.0			
10			0.0	0.9	2.4	5.5	1.6	0.2E	0.0			
11			0.0	3.2	2.1	4.1	1.5	0.2E	0.0			
12	N	N	0.0	3.7	1.8	3.4	1.3	0.2E	0.0	N	N	N
13	O	O	0.0	2.6	1.7	32	1.2	0.2E	0.0	O	O	O
14			0.0	2.1	1.5	36	1.1	0.3E	0.0			
15			0.0	3.9	1.4	13	1.0	0.2	0.0			
16	F	F	0.0	6.3	1.6	13	0.9	0.3	0.0	F	F	F
17	L	L *	0.0	3.7	102	40	0.8	0.3	0.0	L *	L	L *
18	O	O	0.0	2.7E	63	23 *	0.8	0.3	0.0	O	O	O
19	W *	W	0.0*	2.4E	16	12	0.7	0.3	0.0*	W	W	W
20			0.0	2.2E	86	8.8	0.6	0.2	0.0			
21			0.4	2.1E	111	6.5	0.6	0.2	0.0			
22			0.5	2.1E	40	5.5	0.5	0.2	0.0			
23			0.5	1.9E	18	4.6	0.5	0.2	0.0			
24			0.5	1.9E	11	3.7	0.5	0.2	0.0			
25			0.6	1.8E	7.4	3.4	0.4	0.2	0.0			
26			1.2	1.7E	6.0	3.0	0.4	0.2	0.0			
27			1.3	1.9E	5.0	2.7	0.4	0.1	0.0			
28			1.3	2.2E	4.1	2.4	0.4	0.1	0.0			
29			1.2	2.7E	3.6	2.3	0.4	0.1	0.0			
30			1.0	2.1E		2.2	0.4	0.1	0.0			
31			0.9	12 E		2.1		0.1				
MEAN			0.3	2.3E	18.0	8.5	1.6	0.2E	0.0			
MAX.			1.3	12	111	40	8.1	0.3	0.1			
MIN.			0.0	0.5	1.4	1.4	0.4	0.1	0.0			
AC. FT.			19	142E	1035	521	92	13E	1			

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
2.5	269	5.22	2	17	1705	0.0		10	1	0000	1822

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 28 38	120 06 43	SW 21 5S 17E	4170E	10.07	2-1-63	DEC 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 3.7 miles north of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 24.9 square miles. Altitude of gage is approximately 1,210 feet (from topographic map). Peak discharge estimated based on rating curve extended above discharge 1442 cfs.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	2.0	19	7.5	8.5	0.3					1
2			0	2.2	22	6.5	16	0.3					2
3			0	2.0	14	5.5	18	0.3					3
4			0	1.9	10	5.5	14	0.3					4
5			0	1.9	8.0	4.3	9.0	0.3					5
6			0	1.9	7.0	3.8	7.5	0.2					6
7			0	1.9	6.5	3.8	7.0	0.1					7
8			0	1.9	4.3	6.5	5.5	0					8
9			1.9	1.9	4.0	16	4.9	0					9
10			2.0	2.2	4.0	21	4.3	0					10
11			1.9	2.2	4.3	12	3.8	0					11
12	N	N	1.3	2.8	4.0	9.0	3.4	0	N	N	N	N	12
13	O	O	1.9	2.8	3.8	12	3.4	0	O	O	O	O	13
14			1.6	2.4	3.6	54	3.2	0					14
15			1.9	2.4	3.4	42	3.0	0					15
16	F	F	2.0	2.4	3.4	30	2.8	0	F	F	F	F	16
17	L	L	2.2	2.8	8.5	38	2.8	0	L	L	L	L	17
18	O	O	2.4	2.8	114	53	2.6	0	O	O	O	O	18
19	W	W	3.0	2.8	43	33	2.4	0	W	W	W	W	19
20			4.3	3.6	42	29	2.4	0					20
21			3.4	3.4	96	23	2.2	0					21
22			3.2	3.2	82	18	2.0	0					22
23			2.8	3.0	40	14	1.9	0					23
24			2.6	3.0	30	12	1.9	0					24
25			2.4	3.0	22	10	1.9	0					25
26			2.2	3.0	16	9.0	0.6	0					26
27			2.2	3.0	13	8.5	0.6	0					27
28			2.2	3.0	10	8.0	0.6	0					28
29			2.2	3.4	8.5	7.5	0.4	0					29
30			2.0	3.6		7.0	0.4	0					30
31			2.0	3.8		6.5		0					31
MEAN			1.7	2.6	22	17	4.6	0.1					MEAN
MAX.			4.3	3.8	114	54	18	0.3					MAX.
MIN.			0	1.9	3.4	3.8	0.4	0					MIN.
AC. FT.			106	163	1557	1274	272	4					AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
3.9	190		2	18	0430	0.0		10	1	0000	3376

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE		1955		320.50	USCGS

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B56400	BURNS CREEK AT HORNITOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1		0.0	0.1	0.1	1.0*	1.4	1.6	0.1				
2		0.0*	0.1	0.2	0.9	1.2	4.6*	0.1				
3	*	0.0	0.1	0.2	0.8	1.0	1.8	0.1		*		
4		0.0	0.1	0.2	0.8	0.9	1.0	0.1				
5		0.0	0.1	0.2*	0.8	0.9*	0.9	0.1				
6		0.0	0.1	0.2	0.7	0.9	0.8	0.1*	*		*	*
7		0.0	0.1	0.2	0.5	1.0	0.7	0.1				
8		0.0	0.1	0.2	0.5	30	0.6	0.1				
9		0.0	0.1	0.2	0.6	6.7	0.6	0.1				
10		0.0	0.1	0.4	0.7	3.1	0.5	0.1				
11		0.0	0.1	0.5	0.6	2.2	0.4	0.1				
12	N	0.0	0.1	0.4	0.5	1.8	0.4	0.1	N	N	N	N
13	O	0.0	0.1	0.3	0.6	26	0.4	0.1	O	O	O	O
14		0.0	0.1	0.3	0.6	13	0.4	0.1				
15		0.0	0.1	1.0	0.6	5.6	0.4	0.1				
16	F	0.0	0.1	0.8	0.7	9.4	0.3	0.1	F	F	F	F
17	L	0.0*	0.1	0.6	35	14	0.3	0.1	L	L *	L	L *
18	O	0.0	0.2	0.4	12	6.2	0.2	0.1	O	O	O	O
19	W	0.1	0.2	0.4	5.6	3.4	0.2	0.1	W *	W	W	W
20		0.0	0.1	0.4	27	2.5	0.2	0.1				
21		0.0	0.1	0.4	46	2.0	0.2	0.1				
22		0.0	0.1	0.4	12	1.6	0.2	0.1				
23		0.0	0.1	0.4	6.7	1.4	0.2	0.0				
24		0.0	0.1	0.4	4.6	1.0	0.2	0.0				
25		0.0	0.1	0.4	3.1	1.0	0.2	0.0				
26		0.0	0.1	0.4	2.5	1.0	0.1	0.0				
27		0.0	0.1	0.5	2.2	0.9	0.1	0.0				
28		0.0	0.1	0.5	2.0	0.9	0.1	0.0				
29		0.0	0.1	0.5	1.8	0.7	0.1	0.0				
30		0.1	0.1	0.7		0.7	0.1	0.0				
31			0.1	2.0		0.6		0.0				
MEAN		0.0	0.1	0.4	5.9	4.5	0.6	0.1				
MAX.		0.1	0.2	2.0	46	30	4.6	0.1				
MIN.		0.0	0.1	0.1	0.5	0.6	0.1	0.0				
AC. FT.		0	7	27	340	284	35	4				

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

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1.0	188	4.13	2	21	0755	0.0		10	1	0000	698

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 29 42	120 14 17	SE17 5S 16E	9200E	10.66	2-15-62	DEC 58-DATE		1958		0.00	LOCAL

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	0	0.6	0.1	13						1
2			0	0	0.3	0.1	28						2
3			0	0	0.1	0.1	7.5						3
4			0	0	0.1	0.1	4.0						4
5			0	0	0.1	0.1	0.5						5
6			0	0	0.1	0.1	0.2						6
7			0	0	0.1	0.1	0.1						7
8			0	0	0.1	0.2	0.1						8
9			0	0	0.1	8.4	0.1						9
10			0	0	0.1	7.0	0.1						10
11			0	0	0.1	1.8	0						11
12	N	N	0	0	0.1	0.3	0	N	N	N	N	N	12
13	O	O	0	0	0.1	5.3	0	O	O	O	O	O	13
14			0	0.1	0.1	18	0						14
15			0	5.5	0.1	12	0						15
16	F	F	0	1.8	0.1	8.0	0	F	F	F	F	F	16
17	L	L	0	0.2	50	14	0	L	L	L	L	L	17
18	O	O	0	0.1	11	14	0	O	O	O	O	O	18
19	W	W	0.1	0.1	4.5	7.5	0	W	W	W	W	W	19
20			0.4	0.1	21	5.5	0						20
21			0.1	0.1	29	3.0	0						21
22			0.1	0.1	11	0.6	0						22
23			0.1	0.1	9.0	0.4	0						23
24			0	0	5.5	0.2	0						24
25			0	0	2.4	0.1	0						25
26			0	0	1.2	0.1	0						26
27			0	0	0.3	0.1	0						27
28			0	0	0.1	0.1	0						28
29			0	0	0.1	0.1	0						29
30			0	0		0.1	0						30
31			0	8.0		0.1							31
MEAN			0	0.5	5.1	3.5	1.8						MEAN
MAX.			0.4	5.5	50	18	28						MAX.
MIN.			0	0	0.1	0.1	0						MIN.
AC. FT.			2	32	292	213	106						AC.FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
0.9	152		2	17	1510	0.0		10	1	0000	645

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

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	225	41	236	91	79	61	41	62	25	31	23	50	1
2	234	38	228	90	75	87	43	56	22	32	25 *	50	2
3	240 *	36 *	214	88	73	108	82	49 *	21 *	39 *	26	53	3
4	257	33	207 *	79	81	68 *	110 *	48	21	37	25	48	4
5	236	30	201	72	75 *	56	101	45	23	30	29	45	5
6	227	30	198	70	70	49	73	46	22	27	40	46 *	6
7	205	31	148	70	66	46	50	46	22	24	49	52	7
8	181	31	167	93 *	61	48	47	44	23	23	38	53	8
9	189	30	164	117	52	65	46	38	23	27	30	55	9
10	176	30	163	118	45	79	40	36	24	25	28	62	10
11	154	28	140	114	42	110	40	47	25	27	26	68	11
12	145	27	93	110	41	117	38	75	23	28	27	77	12
13	134	24	85	98	42	122	40	118	33	28	28	79	13
14	145	24	83	89	44	131	41	113	26	29	30	78	14
15	135	24	80	89	42	98	40	99	26	28	35	79	15
16	137	21	76	88	43	107	41	83	29	29	42	80	16
17	134	29	74	84	47	114	40	77	31	28	52	82	17
18	122	29	72	79	58	132	38	73	27	28	53	82	18
19	115	34	76	78	129	139	40	66	32	29	57	71	19
20	111	41	131	75	170	125	33	59	33	28	52	69	20
21	110	49	186	70	163	113	45	64	29	29	48	63	21
22	98	76	175	68	181	90	56	65	28	30	48	59	22
23	86	113	152	70	181	77	65	60	26	32	52	60	23
24	105	141	130	74	137	70	56	57	28	28	52	61	24
25	92	181	116	73	109	47	45	56	28	28	52	54	25
26	83	205	108	70	89	41	39	58	28	26	55	56	26
27	69	203	104	69	78	40	52	56	27	27	54	50	27
28	58	198	102	66	70	39	61	53	28	30	49	40	28
29	53	194	99	67	64	40	70	44	26	30	49	36	29
30	57	212	96	68		38	72	31	31	32	49	39	30
31	47		94	76		38		27		26	53		31
MEAN	141	72.8	135	82.7	83.0	80.5	52.8	59.7	26.3	29.0	41.2	59.9	MEA
MAX.	257	212	236	118	181	139	110	118	33	39	57	82	MA
MIN.	47	21	72	66	41	38	33	27	21	23	23	36	MI
AC. FT.	8648	4330	8327	5084	4774	4949	3144	3671	1567	1775	2531	3564	AC.

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
72.1	261	63.79	10	4	2100	20	61.80	11	17	1200	52360

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 17 42	120 51 00	26 7S 10E	13300	75.00	4-26-67	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B00975	PANOCHE DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	20	18	22	14	26	39	51	50 *	48	66 *	58	50	1
2	20	17	20	15 *	26 *	36	63 *	50	47	67	60	48	2
3	23 *	17	23	12	30	34	62	55	48	67	58	40	3
4	24	15	29	11	33	41	60	57	48	67	58	39 *	4
5	20	18	23	13	35	41	60	56	50 *	67	60	46	5
6	20	16	23	14	40	38	58	58	54	67	60	46	6
7	19	18	26	15	38	39	58	60	58	67	60	47	7
8	24	15	27	14	41	45	60	62	61	67	59	48	8
9	21	16	24	16	44	43	61	62	62	67	59	44	9
10	16	16	19	16	48	38	62	63	63	67	59	42	10
11	18	18	20	14	47	35	63	63	63	65	59	42	11
12	21	16	24	14	46	38	64	63	62	62	58	34	12
13	15	17	22	13	47	42	63	64	60	60	59	34	13
14	14	12	22	14	43	40	60	64	56	60	59	37	14
15	14	15	23	15	40 *	38	60	65	53	62	57	28	15
16	13	18	23	10	44	43	57	64 *	51	63	56	16	16
17	13	18	22	12	52	37	54 *	61	53 *	65	58	20	17
18	15 #	25	24	10	56	37 *	50	52	51	66 *	59	16 *	18
19	15 E	29	17	10	52	36	50	46	52	67	59 *	13	19
20	14 E	38	14	13	47	36	53	45	53	66	61	18	20
21	14 E	39	13	13	48	29	50	46	54	64	62	24	21
22	13 E	27 *	13	18	48	33	51	45	55	63	66	21	22
23	12 E	25	13	12	47	38	44	45	59	64	65	27	23
24	11 E	29	13	16	45	43	45	45	63	64	64	24	24
25	11 #	26	12	17	44	46	45	48	63	63	61	18	25
26	12	23	12	22	45	48	50	47	64	63	59	21	26
27	12	23	14	24	47	45	55	49	64	62	50	25	27
28	14	24	15	28	43	48	54	49	64	60	47	22	28
29	16	24	15	26	38	49	54	52	65	57	44	21	29
30	16	27	14	25		49	51	53	66	54	49	24	30
31	16		14	28		48		53		54	57		31
MEAN	16.3	21.3	19.2	15.9	42.8	40.4	55.6	54.5	57.0	63.7	58.1	31.2	MEAN
MAX.	24	39	29	28	56	49	64	65	66	67	66	50	MAX.
MIN.	11 E	12	12	10	26	29	44	45	47	54	44	13	MIN.
AC. FT.	1004	1267	1180	980	2460	2483	3308	3352	3392	3913	3570	1855	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
39.6	68	9.07	7	19	1645	7.9	2.77	1	19	2045	28760

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 55 25	120 41 19	NW 5 12S 12E	69.0	9.19	11-24-65	FEB 59-SEP 62 OCT 64-DATE	OCT 62-JUL 63	1959	DATE	-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).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	800470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						160	172	99	40	76	133	95
2						159	199	92	50	70	130 *	101
3						159	215	101 *	73 *	44 *	103	105
4						159 *	215 *	115	66	49	73	80
5						169	205	122	49	47	89	69
6						175	186	131	53	50	110	66
7						172	190	127	58	55	94	101
8						177	179	108	75	50	79	104
9						191	166	98	86	68	75	98
10						202	143	96	86	90	68	108
11						192	135	104	76	105	84	89
12						193	129	108	68	100	95	79 *
13						196	136	100	57	85	99	73
14						207	144	125	62	87	123	61
15						222	149	142	60	86	110	60
16	STATION INSTALLED FEBRUARY 28, 1968					232	157	146	82	77	87	52
17						235	145	119	85	52	108	65
18						235	161	104	65	45	90	57
19						225	149	100	71	36	97	52
20						200	148	102	78	46	131	49
21						178	147	98	69	46	132	60
22						179	143	79	60	48	130	68
23						184	145	67	50	40	123	84
24						191	139	56	50	45	130	113
25						188	128	64	52	33	125	86
26						188	139	73	50	35	134	66
27						188	122	70	40	60	146	66
28						181	122	68	50	82	143	73
29						171	119	46	45	117	133	80
30						169	102	40	56	136	105	97
31						158		42		143	95	
MEAN						188	154	94.9	62.1	67.8	109	78.6
MAX.						235	215	146	86	143	146	113
MIN.						158	102	40	40	33	68	49
AC. FT.						11570	9181	5835	3693	4171	6692	4675

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

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

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 14 52	120 51 04	SE10 8S 10E	237	66.64	3-16-68	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. Station installed on February 28, 1968.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B52600	NORTH FORK MERCED RIVER NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.3	2.3	3.8	3.8	9.8	6.7*	9.1	2.7	1.8	0.4	0.2	0.2	1
2	1.5	1.3*	2.7	3.8	9.1	6.1	10	2.7	1.8	0.3	0.3	0.2	2
3	2.0*	1.3	2.7	3.8	11	6.1	8.5	2.7*	1.8	0.3*	0.3	0.3	3
4	2.3	1.5	3.0	3.4	11	5.6	7.8	2.7	1.8	0.4	0.3	0.2*	4
5	2.3	1.3	10	3.4	10	5.1	7.2*	2.3	1.8	0.4	0.2	0.1	5
6	2.0	1.3	4.2*	3.0	9.8*	5.1	7.2	2.0	2.0	0.6	0.3*	0.1	6
7	2.0	1.8	5.6	3.0	8.5	6.7	6.7	2.0	1.8*	0.4	0.3	0.1	7
8	1.5	2.3	5.6	3.4*	7.8	22 *	6.1	2.0	2.3	0.3	0.3	0.1	8
9	1.5	2.7	4.2	3.4	9.8	21	5.6	2.0	2.0	0.6	0.2	0.2	9
10	1.5	2.7	3.8	8.5	11	14	5.6	2.0	1.8	0.4	0.3	0.1	10
11	1.5	2.7	3.4	9.1	9.1	11	5.6	2.0	1.5	0.2	0.2	0.1	11
12	1.5	2.3	3.0	6.7	8.5	9.1	5.1	3.4	1.5	0	0.2	0.2	12
13	1.1	1.8	3.0	5.6	7.8	15	5.1	4.6	1.5	0	0.3	0.2	13
14	1.3	3.0	2.7	4.6	7.8	17	4.6	6.1	1.1	0.7	0.3	0.2	14
15	1.1	3.4	2.7	13	7.2	16	4.6	4.6	1.1	0.7	0.2	0.2	15
16	1.1	1.8	2.7	9.8	8.5	17	4.6	3.8	1.1	0.6	0.2	0.2	16
17	1.1	1.8	2.7	7.2	32	27	4.6	3.4	0.9	0.6	0.2	0.2	17
18	1.1	2.7	3.4	6.1	29	29	4.6	3.0	0.9	0.4	0.3	0.2	18
19	1.3	5.1	3.8	5.6	19	22	4.6	2.7	0.7	0.4	0.3	0.2	19
20	1.8	2.0	3.4	5.1	33	18	4.6	2.7	0.9	0.4	0.2	0.2	20
21	1.8	2.0	3.0	4.6	32	14	4.6	2.3	1.3	0.4	0.2	0.2	21
22	1.8	2.3	2.7	4.6	23	13	4.6	2.3	1.3	0.4	0.2	0.2	22
23	2.0	2.3	2.7	5.1	17	10	3.8	2.3	0.9	0.4	0.3	0.3	23
24	2.0	2.3	3.4	5.1	13	10	3.8	2.3	0.7	0.3	0.3	0.2	24
25	2.0	2.3	4.2	5.1	10	9.1	3.8	2.3	0.7	0.3	0.4	0.2	25
26	2.0	2.0	4.2	5.1	9.1	7.8	3.8	2.3	0.4	0.3	0.3	0.2	26
27	2.0	1.8	4.2	5.6	8.5	7.2	3.0	2.0	0.3	0.3	0.2	0.2	27
28	2.0	2.3	4.6	5.6	7.8	6.7	3.0	2.3	0.3	0.3	0.2	0.3	28
29	2.3	3.4	4.6	5.1	7.2	7.2	3.0	2.3	0.4	0.3	0.2	0.3	29
30	2.3	6.1	4.2	7.2		6.7	2.7	2.3	0.4	0.2	0.2	0.4	30
31	2.3		3.8	10		6.7		2.0		0.2	0.2		31
MEAN	1.7	2.4	3.8	5.7	13.4	12.2	5.3	2.7	1.2	0.4	0.3	0.2	MEAN
MAX.	2.3	6.1	10	13	33	29	10	6.1	2.3	0.7	0.4	0.4	MAX.
MIN.	1.1	1.3	2.7	3.0	7.2	5.1	2.7	2.0	0.3	0.0	0.2	0.1	MIN.
AC. FT.	106	143	234	348	768	750	313	167	73	23	15	12	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
4.1	52	3.76	2	17	1925	0.0		7	11	1600	2952

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

Station located 40 feet upstream from Greeley Hill Road Bridge, 9 miles northeast of Coulterville. Drainage area is 30.3 square miles. Maximum discharge of record from rating curve extended above 2,145 cfs. Altitude of gage is 2,360 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B52580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	0.2	0.6	1.0	0.6	1.0	2.8*	3.7	0.9	0.6	0.3	0.2	0.1
2	0.2	0.6*	0.9	0.6	1.4	2.6	3.5	0.9	0.6	0.3	0.1	0.1
3	0.3*	0.6	0.9	0.5	2.1	2.2	2.8	0.9*	0.6	0.3*	0.1	0.1
4	0.2	0.6	0.9	0.5	2.0	2.1	2.6	0.8	0.6	0.3	0.1	0.1*
5	0.2	0.7	1.8	0.5	1.7	2.1	2.5*	0.9	0.6	0.3	0.1	0.1
6	0.2	0.8	0.9*	0.5	1.6*	2.0	2.4	0.8	0.6	0.3	0.1*	0.1
7	0.2	0.8	1.3	0.4	1.4	2.4	2.2	0.8	0.7*	0.3	0.1	0.1
8	0.2	0.7	0.9	0.4*	1.4	36 *	2.1	0.8	0.6	0.3	0.1	0.1
9	0.2	0.7	0.9	0.5	1.8	10	2.0	0.9	0.6	0.3	0.1	0.1
10	0.2	0.8	0.8	0.7	1.7	3.9	1.8	0.9	0.6	0.3	0.1	0.1
11	0.3	0.8	0.7	0.4	1.5	3.5	1.8	0.9	0.5	0.3	0.1	0.1
12	0.3	0.7	0.7	0.4	1.4	3.9	1.7	1.2	0.5	0.3	0.1	0.1
13	0.3	0.7	0.7	0.4	1.4	9.4	1.6	1.4	0.5	0.2	0.2	0.1
14	0.3	1.0	0.7	0.4	1.6	9.2	1.6	1.6	0.5	0.2	0.1	0.1
15	0.3	0.9	0.8	0.9	1.3	6.5	1.6	1.1	0.5	0.2	0.1	0.1
16	0.3	0.9	0.7	0.5	2.0	7.6	1.5	1.0	0.4	0.2	0.1	0.1
17	0.3	1.0	0.7	0.5	14	13	1.4	0.9	0.4	0.2	0.1	0.1
18	0.4	1.2	0.8	0.5	10	9.7	1.4	0.8	0.4	0.2	0.1	0.1
19	0.4	1.1	0.8	0.4	5.5	6.7	1.4	0.8	0.4	0.2	0.1	0.1
20	0.4	0.8	0.7	0.4	20	5.5	1.3	0.9	0.4	0.2	0.1	0.1
21	0.4	0.7	0.7	0.4	16	4.9	1.3	0.8	0.4	0.2	0.1	0.1
22	0.4	0.7	0.7	0.4	8.9	4.6	1.2	0.7	0.4	0.2	0.1	0.1
23	0.4	0.7	0.7	0.5	6.3	3.7	1.2	0.7	0.4	0.2	0.1	0.1
24	0.5	0.8	0.7	0.4	4.9	3.5	1.2	0.7	0.4	0.2	0.1	0.1
25	0.5	0.8	0.7	0.4	3.3	3.7	1.2	0.7	0.4	0.2	0.1	0.1
26	0.5	0.8	0.7	0.4	3.3	3.5	1.2	0.7	0.3	0.2	0.1	0.1
27	0.5	0.8	0.7	0.5	3.3	3.1	1.2	0.7	0.3	0.2	0.1	0.1
28	0.5	0.8	0.7	0.5	3.3	3.0	1.0	0.6	0.3	0.2	0.1	0.1
29	0.5	0.9	0.7	0.6	3.0	2.8	0.9	0.6	0.3	0.1	0.1	0.1
30	0.5	1.5	0.6	0.7		2.6	0.9	0.6	0.3	0.1	0.1	0.1
31	0.5		0.6	1.2		2.4		0.6		0.2	0.1	
MEAN	0.3	0.8	0.8	0.5	4.4	5.8	1.7	0.9	0.5	0.2	0.1	0.1
MAX.	0.5	1.5	1.8	1.2	20	36	3.7	1.6	0.7	0.3	0.2	0.1
MIN.	0.2	0.6	0.6	0.4	1.0	2.0	0.9	0.6	0.3	0.1	0.1	0.1
AC. FT.	21	49	50	32	252	355	104	53	28	14	7	6

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
1.3	86	3.06	3	8	0840	0.1	1.28	9	24	2200	969

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 44 29	120 07 00	SE20 2S 17E	800 E	6.63	3-12-67	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 154 cfs.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.8E	2.6	1.4	2.4	1.9*	2.8	1.9	1.3				1
2	0.1	0.7#	1.9	1.3	1.8	1.9	2.6	1.9	1.4				2
3	0.2*	0.7	1.8	1.1	1.5	1.9	2.4	1.6*	1.3	*			3
4	0.2	0.7	1.9	1.0	1.4	2.1	2.1	1.6	1.1			*	4
5	0.2	0.9	4.9	1.0	1.3	2.2	1.9*	1.6	1.4				5
6	0.2	1.0	3.0*	1.0	1.3*	2.1	1.8'	1.5	1.5		*		6
7	0.2	0.9	4.1	0.9	1.1	2.6	1.6	1.5	1.8*				7
8	0.2	0.8	3.2	0.9*	1.1	87 *	1.8	1.6	1.4				8
9	0.3	0.9	2.4	0.9	1.3	16	1.8	1.5	1.3				9
10	0.3	0.9	2.2	1.9	1.4	7.8	1.8	1.5	1.0				10
11	0.3	0.8	2.1	1.9	1.3	5.4	1.8	1.6	0.8				11
12	0.3	0.8	1.9	1.4	1.1	4.6	1.8	2.1	0.8	N	N	N	12
13	0.3	0.9	1.8	1.1	1.3	30 *	1.8	2.2	0.5	O	O	O	13
14	0.4	1.1	1.8	1.1	1.3	18	16	3.0	0.5				14
15	0.3	1.0	1.8	3.2	1.1	9.8	1.8	2.4	0.5				15
16	0.4	0.9	1.6	1.9	1.5	13	1.8	2.2	0.4	F	F	F	16
17	0.4	0.9	1.5	1.5	21	25	1.8	1.9	0.4	L	L	L	17
18	0.4	1.1	2.2	1.3	8.9	15	1.6	1.9	0.3	O	O	O	18
19	0.5	1.9	2.6	1.1	3.6	9.3	1.6	1.9	0.3	W	W	W	19
20	0.5	1.8	2.1	1.1	30.0	6.4	1.8	1.8	0.2				20
21	0.5	1.5	1.8	1.1	25	5.2	1.8	1.8	0.2				21
22	0.5	1.4	1.8	1.0	8.9	4.1	1.8	1.9	0.1				22
23	0.5	1.4	1.6	0.9	4.6	3.6	1.8	1.8	0.2				23
24	0.5E	1.4	1.6	0.9	3.2	3.4	1.8	1.8	0.2				24
25	0.7E	1.0	1.8	0.9	2.8	3.0	1.8	1.8	0.1				25
26	0.7E	0.9	1.6	0.9	2.4	2.8	1.8	1.8	0.1				26
27	0.7E	0.9	1.6	1.0	2.4	2.6	1.8	1.8	0.1				27
28	0.8E	1.0	1.5	1.1	2.2	2.6	1.8	1.6	0.0				28
29	0.7E	1.3	1.5	1.0	2.1	2.6	1.8	1.5	0.0				29
30	0.7E	4.1	1.3	1.4		2.4	1.8	1.5	0.0				30
31	0.7E		1.3	4.6		2.2		1.5					31
MEAN	0.4	1.1	2.1	1.3	4.8	9.6	1.9	1.9	0.6				MEAN
MAX.	0.8	4.1	4.9	4.6	30	87	2.8	3.0	1.8				MAX.
MIN.	0.1	0.7	1.5	0.9	1.1	1.9	1.6	1.5	0.0				MIN.
AC. FT.	25	68	129	83	276	588	111	111	38				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
2.0	347	4.75	3	8	0800	0.0		6	27	1800	1429

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	LDCAL

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 717 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	71	45	300 *	521	435	93	95	93	101	78	90	59
2	78 *	50 *	311	535	692 *	74	97	90 *	93	84 *	71	78
3	73	97	297	517	739	65	88 *	68	95 *	79	69	78 *
4	93	78	314	521	744	57	68	76	101	63	63	69
5	92	73	321	521 *	503	88 *	45	84	105	60	65	93
6	63	105	314	431	412	95	56	95	125	66	71 *	78
7	60	287	382	512	1300	92	56	95	111	68	57	81
8	44	349	491	703	1430	130	43	90	121	65	74	93
9	36	390	487	530	1420	90	45	83	119	57	73	57
10	27	278	491	376	1260	92	65	78	117	57	71	29
11	38	155	487	470	514	92	84	84	117	73	84	10
12	45	143	495	364	136	99	76	88	117	92	76	2.7
13	40	136	499	122	88	103	84	78	95	90	95	4.4
14	45	134	517	73	84	97	79	97	95	90	90	4.1
15	48	127	504	160	88	88	81	105	99	95	83	16
16	227	119	487	324	88	105	84	93	90	107	77	28
17	458	113	495	338	95	115	95	99	81	95	56	22
18	923	107	499	345	95	74	60	90	84	134	57	1.0*
19	1010	111	504	335	93	76	81	79	101	111	63	2.1
20	1010	109	504	121	99	97	71	88	83	97	54	9.8
21	1010	223	478	79	101 *	97	95	84	92	90	56	20
22	1000	287	491	136	95	93	81	63	90	107	63	1.2
23	990	281	491	311	76	99	46	83	84	115	65	4.8
24	804	278	478	331	49	97	38	79	84	92	71	1.0
25	804	268	495	331	73	103	62	81	86	90	73	7.1
26	787	287	482	335	74	103	60	95	86	95	74	4.1
27	782	294	487	120	79	86	59	97	92	93	84	22
28	809	291	478	76	79	66	62	95	95	93	95	10
29	447	300	474	237	81	63	73	93	97	109	91	15
30	57	214	499	361		86	107	103	92	97	73	29
31	44		530	579		88		101		105	73	
MEAN	388	191	454	346	380	90.0	71.2	88.0	98.3	89.0	73.0	31.0
MAX.	1010	390	530	703	1430	130	107	105	125	134	95	93
MIN.	27	45	297	73	49	63	43	63	81	57	54	10
AC. FT.	23830	11360	27930	21250	21860	5560	4237	5409	5847	5449	4477	1843

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
192	2196	10.20	1	31	1500	0.4	5.05	9	18	1400	139100

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. 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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	120 E	300 #	313 *	601	680	120	76	50 E	65	91	65	98	1
2	120 E	145	374	625	681 *	129	94	50 #	61	80 *	74	96	2
3	120 #	132	369	614	834	110	79 *	50 E	69 *	62	80	92 *	3
4	128	176	364	615	878	96	64	50 E	54	67	91	87	4
5	152	170	378	611 *	859	80 *	59	60 E	48	68	98	77	5
6	138	161	376	611	476	103	48	60 E	56	71	94 *	71	6
7	130 E	200	383	517	893	116	42	60 E	65	61	87	88	7
8	120 E	362	486	609	1480	131	41	70 E	79	57	82	83	8
9	120 E	447	551	788	1550	195	34	70 E	83	61	61	88	9
10	110 E	469	559	642	1500	163	27	70 E	81	49	70	96	10
11	110 E	352	567	398	1030	133	23	80 E	72	26	64	91	11
12	100 E	254	559	584	509	120	24	80 E	64	31	64	83	12
13	99	230	568	400	222	129	27	80 E	70	40	68	80	13
14	98	217	601	210	157	140	35	90 E	66	71	66	84	14
15	100 E	218	592	172	140	123	42	90 E	61	84	79	92	15
16	100 E	207	577	301	138	120	32	90 E	62	68	84	92	16
17	500 E	194	569	405	157	250	18	87	65	71	79	93	17
18	800 E	188	584	423	161	215	30 E	88	63	80	77	83	18
19	1000 E	194	590	436	180	128	20 E	83	56	88	87	66	19
20	1100 E	197	587	370	174	102	20 E	83	60	96	92	63	20
21	1100 E	186	576	204	257	110	30 E	79	57	100	98	67	21
22	1100 E	302	569	157	254	111	40 E	66	61	102	94	78	22
23	1100 E	359	576	246	195	102	40 E	60	72	91	103	86	23
24	1100 E	362	570	394	155	98	30 E	60	74	76	110	92	24
25	900 E	356	569	393	117	96	30 E	59	62	73	106	96	35
36	900 E	361	582	404	116	93	30 E	49	56	73	107	92	26
27	900 E	364	562	379	120	95	30 E	53	64	74	114	99	27
28	900 E	369	568	210	121	84	30 E	59	64	71	107	94	28
29	900 E	370	567	151	120	66	30 E	59	67	68	87	82	29
30	700 E	387	562	332		57	30 E	61	74	69	91	78	30
31	500 E		598	474		63		61		71	105		31
MEAN	496 E	274	524	428	488	119	38.5E	68.0E	65	70.7	86.6	85.6	MEAN
MAX.	1100 E	469	601	788	1550	250	94	90 E	83	102	114	99	MAX.
MIN.	98	132	313	151	116	57	18	49	48	26	61	63	MIN.
AC. FT.	30480E	16320	32220	26330	28070	7295	2291E	4179E	3870	4344	5324	5092	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
228	1570	14.32	2	9	2100	14	9.86	4	17	1415	165800

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		86.24	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.

a Reflects present datum.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B08720	ORESTIMBA CREEK NEAR CROWS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	8.5E	11 E		0.0E	*	0.0*	13	7.3	15	22	35	8.9
2	9.0#	8.0#		0.5E		0.0	47 *	9.6	6.8	14	15 *	27
3	11 E	3.0E		1.0E		0.0	16	6.1*	5.8*	12 *	19	7.1
4	14 E	3.0E		1.7#		0.0	21	8.7	8.7	7.6	15	5.8
5	16 E	3.0E	*	1.0E	*	0.0	31	15	7.3	10	18	5.6*
6	14 E	3.0E		0.5E		0.0	27	20	22	9.3	14	23
7	13 E	3.0E		0.0		7.5	22	14	20	8.4	9.3	8.4
8	12 E	3.0E		0.0		79 *	67	12	43	9.0	9.6	5.4
9	11 E	3.0E		0.0		20	36	8.4	17	13	11	12
10	8.2E	3.0E		0.0		2.3	11	5.4	40	9.3	9.9	14
11	6.0#	3.0E		0.0		3.9	8.7	7.1	38	11	19	9.9
12	5.6E	3.0E	N	0.0	N	4.1	7.6	9.0	19	14	18	8.4
13	4.9E	3.0E	O	0.0	O	24	7.3	9.6	9.3	12	8.4	8.1
14	4.6E	3.0E	*	0.0		63 *	12	12	33	10	10	6.8
15	4.4E	2.0#		0.0		72	16	7.6	12	32	7.9	8.1
16	4.0E	1.8E	F	0.0	F	40	8.4	4.9	14	18	6.3	3.9
17	4.0E	1.6E	L	0.0*	L	38	6.8	5.2	47	21	9.3	6.1
18	3.6#	1.4E	O	0.0	O	64	5.8	4.7	32	19	25	5.4
19	3.4E	1.2E	W	0.0	W *	35	9.6	6.1	11	19	7.6	3.8
20	3.2E	1.0E	*	0.0		3.8	7.9	7.6	6.1	12	9.6	6.1
21	3.0E	0.8E		0.0		30	8.1	8.7	5.2	11	11	5.8
22	2.9E	0.6E		0.0		22	11	15	5.6	12	6.6	6.6
23	2.5E	0.3E		0.0		3.6	9.9	11	7.3	14	5.6	18
24	2.5E	0.0*		0.0		4.9	12	13	6.3	14	5.6	35
25	2.4E	0.0		0.0		6.1	9.6	13	8.7	14	11	12
26	2.2#	0.0		0.0		7.1	8.7	12	13	13	31	5.6
27	2.2E	0.0		0.0		5.2	9.9	12	11	14	8.7	2.6
28	2.0E	0.0		0.0		4.3	7.1	12	17	11	5.2	11
29	2.0E	0.0		0.0		7.9	12	11	13	14	3.8	2.9
30	2.0E	0.0		0.0		4.5	7.6	13	17	13	9.0	2.9
31	12 E			0.0		6.6		15		13	7.6	
MEAN	6.3E	2.2E		0.2E		18.0	15.9	10.2	17.0	13.7	12.3	9.5
MAX.	16.0E	11.0E		1.7E		79	67	20	47	32	35	35
MIN.	2.0E	0.0E		0.0		0.0	5.8	4.7	5.2	7.6	3.8	2.6
AC. FT.	389E	130E		9E		1108	946	627	1014	844	758	568

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
8.8	97	50.87	3	15	0130	0.0		11	24	1420	6393

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 24 51	121 00 52	NE18 6S 9E	2650E	12.08a	2-1-63	DEC 57-DATE		1957 1968	1968	0.00 0.00	LOCAL USCGS

Station located 40 feet upstream from River Road Bridge, 3.7 miles southeast of Crows Landing. Prior to February 1, 1968, the station was located 500 feet downstream and was on local datum. During summer months most flows are irrigation drainage returned to San Joaquin River. Maximum discharge of record from rating curve extended above 1,654 cfs.

a Local datum then in use.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	804	625	1000	896	849	597	561	461	308	274	372	415	1
2	822	553	1020	930	958	589	695 *	446	285	278 *	346	456	2
3	819	505 *	1040	944	972	618	729	443 *	313	293	374	446	3
4	843 *	471	1070 *	993 *	1070	609	806	446	310	287	379	418	4
5	871	469	1050	1050	1120	552 *	835	464	315 *	282	391	406 *	5
6	840	479	1030	1060	1120 *	527	770	503	310	256	401	420	6
7	822	484	1030	1030	958	525	659	517	326	254	411	389	7
8	780	482	1020	1050	1020	624	665	492	337	293	391 *	401	8
9	765	530	1050	1130	1390	641	612	479	342	289	391	430	9
10	738	592	1090	1260	1540	674	544	471	393	270	381	448	10
11	721	632	1100	1250	1560	714	508	487	379	270	374	453	11
12	700	621	1080	1150	1340	736	495	484	358	297	393	451	12
13	675	569	1000	1150	1010	761	469	561	319	293	384	435	13
14	641	547	979	1080	809	812	479	618	330	293	393	461	14
15	633	541	975	972	695	859	522	618	317	324	401	441	15
16	650	544	972	902	647	835	514	635	304	321	415	430	16
17	625	555	947	902	644	875	508	580	351	308	438	403	17
18	606	566	940	951	665	933	484	549	335	285	477	406	18
19	723	580	937	947	726	961	484	533	276	287	469	398	19
20	913	609	961	937	842	885	500	530	264	293	471	411	20
21	1000	665	1050	909	885	862	484	511	272	324	484	420	21
22	1050	692	1090	822	916	806	506	506	287	328	474	425	22
23	1050	736	1060	764	944	742	506	474	285	353	474	443	23
24	1060	796	1020	758	906	708	506	448	268	308	453	482	24
25	1070	812	979	832	839	692	490	443	270	280	490	479	25
26	991	825	944	852	751	629	490	435	252	282	525	435	26
27	968	835	944	849	686	580	492	451	236	282	503	398	27
28	951	852	947	839	662	558	492	425	226	291	487	370	28
29	945	885	940	751	624	575	484	391	230	330	453	391	29
30	929	937	920	702		555	458	342	226	339	441	379	30
31	768		899	736		552		319		363	413		31
MEAN	831	633	1000	948	936	696	558	486	301	298	427	425	MEAN
MAX.	1070	937	1100	1260	1560	961	835	635	393	363	525	482	MAX.
MIN.	606	482	899	702	624	525	458	319	226	254	346	370	MIN.
AC. FT.	51120	37660	61650	58310	53850	42820	33220	29880	17900	18300	26280	25270	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
628	1564	42.15	2	11	1100	213	37.96	6	29	2145	456200

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 26 52	121 00 44	NW 8 6S 9E		61.9	4- 7-58	OCT 65-DATE	41-SEP 65		1959	0.00	USED
				58.4a	4- 7-58			1959		0.00	USGS
			16700b	56.69	4-27-67			1959		3.51	USED

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

a Reflects present datum.
b Maximum discharge since station was rated in October 1965.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	6.2	2070	1350 #	836	797	1610	24	10 *	13	8.2	3.1	14
2	6.2	2380	1210	1070	211	1080	24	10	12	8.7*	3.6	13
3	15	2010	983	1160 *	57	1230	23	10	17	8.0	6.2	15 *
4	141	1950	1350	1210	47	1930 *	22	9.6	13	6.0	22	18
5	233	1700	1370	1330	368	1820	22 *	9.3	11	5.6	18	14
6	98	1900 *	1450	920	360	1820	21	9.3	12	5.8	17	14
7	27	2060	1530	849	314 *	1740	21	9.5	12 *	4.8	33 *	8.8
8	24	2090	1530	1180	345	1690	21	9.7	12	5.2	23	0.2
9	24	2090	1210	1100	362	1370	22	9.3	11	6.0	17	0.0
10	22	2090	1060	938	181	1060	22	8.8	12	8.1	16	0.0
11	26	2030	1670	965	147	1520	23	9.9	14	5.8	16	0.1
12	26	1880	1800	894	451	1500	22	11	11	5.4	16	0.2
13	25	1990	2020	831	865	1400	24	11	11	5.2	15	0.3
14	323	2070	1860	839	749	1290	23	8.2	30	4.7	15	0.1
15	116	2030	1710	863	625	1250	22	20	18	4.7	15	0.0
16	423	1720	1490	883	520	1190	35	6.2	12	4.7	14	0.0
17	439	1580	1310	882	332	938	16	5.5	11	4.8	14	0.2
18	432	1440	1540	872	134	1630	7.1	4.8	6.2	5.0	15	1.5
19	452	1350	1200	860	372	1960	7.9	4.0	5.8	5.4	15	1.9
20	487	1700	1160	806	805	1800	8.0	4.3	5.9	4.7	14	1.2
21	358	1570	1160	258	1420	1590	8.0	6.3	5.5	3.5	13	1.4
22	179	1280	1020	785	2410	870	8.6	6.1	4.7	3.6	13	1.7
23	639	923	852	848	2790	521	8.7	6.3	4.5	4.0	13	1.7
24	1390	1150 E	846	795	2470	427	8.8	15	4.6	3.9	13	2.1
25	1620	1000 E	847	814	2470	704	8.9	6.3	7.0	3.7	14	2.2
26	1770	1200 E	861	744	2150	636	9.5	3.4	5.8	3.6	14	3.0
27	1130	1400 E	865	695	2040	386	9.6	3.5	4.7	3.7	13	1.6
28	1070	1450 E	876	687	2060	175	12	5.7	4.7	3.5	13	1.4
29	1930	1650 E	849	936	2050	275	11	7.9	6.0	2.9	29	1.5
30	2270	1550 E	844	940		30	11	22	9.2	3.7	25	1.7
31	2360		836	741		23		17		3.3	15	
MEAN	583	1710	1247	888	962	1144	16.9	9.0	10.2	5.0	15.6	4.0
MAX.	2360	2380	2020	1330	2790	1960	35	22	30	8.7	33	18
MIN.	6.2	923	836	258	47	23	7.1	3.4	4.5	2.9	3.1	0.0
AC. FT.	35820	101800	76680	54610	55340	70340	1004	555	608	310	958	240

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
549	3220	72.66	2	22	1430	0.0		9	8	1315	398200

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 39 59	120 27 40	NW20 3S 14E	48200	188.0	12- 8-50	OCT 36-SEP 60 OCT 61-DATE		1937		0.00	USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	141	2340	1870	1000	947	2070	169	90 *	85	77	74	88	1
2	120	2220	1580	1040	531	1340	134	80	78	74 *	77	84	2
3	109	2180 *	1350	1290 *	270	1230	131	92	78	77	78	76 *	3
4	105	2260	1300	1400	129	1940	130	98	81	77	77	77	4
5	150	2060	1560 *	1450	107	2050 *	130 *	101	90	78	90 *	83	5
6	266	2040	1640	1430	444	2090	129	98	100	74	92	92	6
7	227	2310	1730	1080	399 *	1950	127	94	93 *	70	88	88	7
8	126	2350	1770	1100	345	1980	122	87	89	73	90	78	8
9	106	2340	1660	1370	406	1880	121	91	80	71	107	81	9
10	98	2370	1370	1270	368	1370	125	87	81	69	100	77	10
11	85	2350	1490	1120	212	1460	124	89	81	77	93	74	11
12	87	2180	1970	1140	186	1740	126	94	80	79	95	74	12
13	92	2180	2170	1040	729	1770	125	102	82	74	97	74	13
14	89	2360	2230	991	937	1590	121	108	83	78	103	75	14
15	396	2330	2070	1020	842	1510	122	111	81	80	108	75	15
16	247	2170	1850	1020	621	1480	119	114	91	74	102	75	16
17	537	1880	1620	1040	546	1340	117	115	88	68	98	74	17
18	547	1770	1760	1030	352	1420	118	111	80	64	102	73	18
19	546	1660	1570	1020	205	2410	112	108	79	64	108	74	19
20	572	1720	1400	998	569	2110	108	102	79	64	103	73	20
21	566	1960	1370	646	1560	2090	103	96	78	71	102	75	21
22	409	1570	1360	538	1930	1270	107	90	78	74	95	78	22
23	306	1390	1110	987	3240	952	106	86	77	73	93	78	23
24	1330	1240	1030	973	2680	701	103	89	78	70	94	74	24
25	1490	1480	1020	918	2740	597	101	93	72	71	110	72	25
26	1790	1280	1010	871	2540	930	104	93	69	70	117	72	26
27	1570	1470	1040	860	2300	754	101	93	70	65	104	74	27
28	1160	1750	1040	797	2310	397	100	93	71	62	99	76	28
29	1450	1740	1040	853	2310	310	97	89	74	65	101	76	29
30	2310	1920	1020	1050		406	95	87	75	59	101	73	30
31	2440		1020	1070		159		86		65	103		31
MEAN	628	1962	1485	1046	1061	1397	118	95.7	80.7	71.2	96.8	77.1	MEAN
MAX.	2440	2370	2230	1450	3240	2410	169	115	100	80	117	92	MAX.
MIN.	85	1240	1010	538	107	159	95	80	69	59	74	72	MIN.
AC. FT.	38610	116800	91280	64290	61000	85880	6996	5885	4802	4378	5952	4588	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
676	3370	73.14	2	23	1730	54	68.23	7	29	2345	490400

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

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. 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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	84 E	28 #	18	16	68	36	72	53 *	48	28	32	46	1
2	85 #	25 E	19	16 *	73 *	28	129	55	43	21	32	55	2
3	97	26	17	17	51	25	86	52	43 *	18	28	52	3
4	98	26	16	16	37	22 *	52	57	34	19	34	57	4
5	87	24	18	16	25	19	43	59	34	23	41 *	59 *	5
6	77	25	22 *	15	19	18	43	54	42	26	41	55	6
7	77 E	25	20	15	17	19	50	53	44	25	40	52	7
8	82 E	25	20	15	15	39	53	54	49	26	34	48	8
9	88 E	24	19	15	15	359	52	52	50	38 *	42	43	9
10	92 E	26	17	16	14	186	54	52	53	43	39	41	10
11	86 E	26	17	17	15	95	72	46	49	32	34	39	11
12	91 E	24	17	16	15	62	71	46	52	26	42	37	12
13	87 E	23 *	16	16	18	49	69	48	40	32	36	45	13
14	85 E	22	17	16	24	50	60	46	37	34	42	50	14
15	77 E	20	23	17	24	113	50	56	39	42	43	48	15
16	74 E	20	19	29	24	85	46	57	29	42	43	47	16
17	77 E	20	17	23	26	380	40	54	34	34	43	47	17
18	93	22	17	18	99	354 *	34	50	41	32	43	44	18
19	97 E	26	17	16	193 *	140	44	48	37	40	47	43	19
20	109 E	32	17	15	98	80	49	49	34	43	50	39	20
21	121 E	40	17	15	406	60	65	54	30	42	52	42	21
22	111 E	32	15	15	423	49	67 *	59	30	44	60	46	22
23	100 E	27	15	15	199	44	68	64	23	26	53	50	23
24	124 E	21	15	15	108	40	72	54	23	20	49	51	24
25	111 E	19	16	15	78	36	73	57	20	27	62	46	25
26	114 E	18	16	14	59	33	67	54	24	34	61	46	26
27	118 E	17	16	14	53	30	67	52	28	37	55	50	27
28	118 E	16	16	15	51	64	60	48	26	30	58	59	28
29	59 E	16	16	15	44	60	63	50	31	32	50	52	29
30	48 E	17	16	17		52	58	45	34	27	50	58	30
31	38 E		16	57		53		42		38	50		31
MEAN	90 E	24	17	18	79	86	61	52	37	32	45	48	MEAN
MAX.	124 E	40	23	57	423	380	129	64	53	44	62	59	MAX.
MIN.	38 E	16	15	14	14	18	34	42	20	18	28	37	MIN.
AC. FT.	5564E	1412	1065	1085	4544	5316	3628	3213	2184	1946	2749	2870	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
49	667	73.50	3	17	2015	14	67.81	1	26	0730	35580

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	SE 24 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.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	531	2340	1880	1080	966	2080	514	266	200	195	228	249	1
2	493	2260 *	1810	1070 *	913	1830	641	253	207	192 *	241	241	2
3	477 *	2300	1610	1130	656	1820	514	258 *	192	188	234	230	3
4	474	2180	1440	1260	495	1130	424	254	198	192	230	219	4
5	458	2140	1510 *	1320	404	1820	400 *	280	193 *	193	238	225 *	5
6	474	1980	1620	1400	384 *	1880	412	274	214	202	239	245	6
7	549	2040	1690	1270	495	1910	398	258	211	197	251 *	262	7
8	543	2190	1760	1100	487	1970	402	260	216	188	243	264	8
9	482	2230	1770	1180	471	1960	370	260	223	190	241	256	9
10	444	2240	1610	1270	500	1920	357	251	221	195	251	251	10
11	422	2250	1440	1190	471	1460	338	249	225	190	245	254	11
12	420	2220	1660	1120	406	1560	338	249	216	190	234	251	12
13	409	2090	1910	1100	416	1700	329	247	214	198	219	254	13
14	420	2130	2100	1040	411	1660	329	245	205	204	221	262	14
15	460	2240	2090	1030	805	1570	314	238	200	198	234	276	15
16	615	2220	1970	1020	779	1560	306	239	197	204	241	270	16
17	570	2060	1790	1020	712	1560	300	239	207	214	249	262	17
18	686	1880	1630	1020	623	1690	294	239	207	207	253	249	18
19	724	1780	1710	1010	620	1640	296	245	195	207	253	262	19
20	734	1700	1550	983	562	1930	294	238	198	221	258	258	20
21	758	1830	1430	958	862	1790	292	227	204	218	258	254	21
22	762	1880	1400	724	1620	1670	302	234	202	209	266	264	22
23	670	1650	1350	737	2140	1380	292	238	195	207	274	253	23
24	643	1430	1200	917	2680	1100	282	243	193	200	247	243	24
25	1350	1470	1140	910	2430	941	294	225	190	209	268	253	25
26	1610	1510	1130	889	2420	937 *	292	236	185	211	272	254	26
27	1840	1390	1120	852	2240	1030	302	227	188	214	266	266	27
28	1630	1620	1120	831	2110	917	286	223	187	214	268	280	28
29	1430	1720	1120	792	2090	727	278	212	185	200	270	288	29
30	1750	1820	1110	882		659	276	212	200	205	256	276	30
31	2210		1090	1020		635		207		216	243		31
MEAN	808	1960	1541	1036	1040	1498	349	243	202	202	248	256	MEAN
MAX.	2210	2340	2100	1400	2680	2080	641	280	225	218	272	288	MAX.
MIN.	409	1390	1090	724	384	635	276	207	185	188	219	219	MIN.
AC. FT.	49660	116600	94730	63720	59840	92100	20760	14930	12040	12430	15250	15220	AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARDE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
781	2782	30.03	2	24	0700	178	23.06	6	27	1530	567300

LOCATION			MAXIMUM DISCHARGE			PERIDD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD CFS	GAGE NT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	30-DATE			1959	0.00	USED
				43.15a	12- 9-50			1960		0.00	USCGS
			8880b	38.50	4-23-67			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.

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	1610	3320	2950	1900	1940	2880	1410	652	469	448	519 *	778	1
2	1610	3160	2970	1890	1930	2720	1440	656	523	417	523	807	2
3	1680	3010 *	2810	1940	1850	2340	1280 *	660	515	420 *	526	778	3
4	1680	2900	2620 *	2090 *	1650	2190 *	1250	676	501	430	556	745	4
5	1710 *	2800	2560	2230	1610	2440	1290	745	497	413	586	720 *	5
6	1760	2660	2740	2340	1600	2600	1340	778 *	519	430	582	749	6
7	1810	2580	2770	2340	1700 *	2590	1320	765	541	403	582	795	7
8	1850	2770	2860	2160	1620	2710	1210	774	530	424	552	867	8
9	1780	2820	2860	2150	1720	2730	1090	753	563	441	537	837	9
10	1560	2920	2820	2380	1960	2790	965	700	594 *	451	597	799	10
11	1420	2990	2620	2430	2070	2420	880	749	594	441	609	786	11
12	1440	3010	2620	2350	2010	2370	820	778	515	420	621	833	12
13	1410	2870	2850	2280	1820	2530	829	854	512	417	605	841	12
14	1380	2770	2880	2190	1790	2560	829	924	486	462	586	829	14
15	1410	2870	2960	2100	1820	2500	898	880	451	479	571	876	15
16	1640	2890	2960	2010	1730	2530	816	867	451	490	575	894	16
17	1520	2770	2810	1960	1630	2560	770	841	483	490	594	841	17
18	1580	2570	2640	1980	1570	2720	770	795	494	441	700	829	18
19	1640	2530	2620	1980	1530	2700	696	770	469	410	732	778	19
20	1820	2480	2580	1950	1540	3100	712	833	413	400	753	790	20
21	2040	2520	2420	1930	1790	3080	716	786	472	424	816	778	21
22	2230	2720	2440	1780	2490	3040	753	745	472	501	889	795	22
23	2200	2540	2440	1570	2910	2680	782	700	490	519	894	820	22
24	2050	2380	2280	1740	3520	2350	790	728	504	490	829	833	24
25	2510	2270	2120	1790	3450	2120	807	692	483	451	837	803	25
26	2810	2440	2060	1830	3340	1950	770	700	427	465	929	820	26
27	3050	2320	2000	1810	3190	1880	736	704	427	465	942	829	27
28	3040	2390	2010	1770	2990	1790	778	640	434	462	916	786	28
29	2730	2700	2010	1700	2910	1500	782	563	403	501	933	807	29
30	2730	2770	1980	1700		1410	728	534	437	479	880	820	30
31	3260		1920	1920		1480		490		508	816		31
MEAN	1966	2725	2554	2006	2127	2428	942	733	489	451	696	809	MEA
MAX.	3260	3320	2970	2430	3520	3100	1440	924	594	519	942	894	MA
MIN.	1380	2270	1920	1570	1530	1410	696	490	403	400	519	720	MIN
AC. FT.	120900	162100	157100	123400	122300	149300	56050	45090	29100	27750	42820	48120	AC.F

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
# — E AND R

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
1493	3618	19.72	2	24	1700	383	13.72	7	13	0100	1084000

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		39.8	12- 9-50	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
				36.4a	12- 9-50		APR 52-SEP 65	1959		0.00	USCGS
			22660b	32.65	4-29-67	OCT 65-DATE		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.

a Reflects present datum.
b Maximum discharge since station was rated in October 1965.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	46	296 *	915	875	160	135 *	1480	33 *	26	22	22	27	1
2	47 *	289	910	875	137	94	1530	28	22	20 *	22	28	2
3	54	289	915	870	153	86	1040	27	20	20	22	26 *	3
4	50	296	910	875	135	84	945	29	25	24	27	27	4
5	61	299	925 *	870 *	146 *	84	783 *	33	25	24 E	30	26	5
6	77	280	920	870	137	84	563	30	28	24 E	28 *	22	6
7	79	280	910	870	146	81	476	28	29 *	24 E	28	18	7
8	79	296	875	870	135	225	349	34	36	25 E	29	18	8
9	83	296	875	870	140	120	137	33	30	25 E	25	20	9
10	81	296	870	899	144	90	114	38	27	25 E	22	22	10
11	79	299	749	875	149	90	110	25	30	26 E	26	20	11
12	81	302	261	718	144	88	88	26	34	26 E	24	18	12
13	83	305	116	424	140	112	56	27	27	26 E	34	20	13
14	81	305	814	424	133	124	39	26	18	27 E	29	22	14
15	83	314	875	457	126	103	36	22	22	27 E	29	22	15
16	84	392	875	438	142	217	38	20	20	27 E	30	24	16
17	90	839	875	438	196	217	38	18	22	28 E	29	22	17
18	86	894	885	347	188	116	52	18	24	28 E	28	20	18
19	153	915	875	340	156	100	59	25	18	28 E	29	14	19
20	265	920	865	334	288	118	62	27	18	28 E	27	17	20
21	296	925	860	331	251	710	54	27	18	28 E	31	17	21
22	289	925	865	321	188	714	52	35	20	27 E	33	22	22
23	277	920	865	409	165	755	54	39	18	26 E	33	26	23
24	318	920	860	388	163	826	50	38	18	27	30	25	24
25	305	920	860	371	158	807	47	29	16	30	36	26	25
26	311	920	860	188	158	746	47	25	17	26	38	22	26
27	334	920	860	142	158	446	44	22	18	24	35	24	27
28	296	910	865	142	142	528	39	24	22	22	38	22	28
29	296	915	850	140	153	1430	38	28	20	22	34	26	29
20	292	920	816	146		1400	42	29	20	22	28	22	30
21	289		835	222		1380		24		20	27		31
MEAN	163	587	826	527	160	391	282	28.0	22.9	25.1E	29.1	22.2	MEAN
MAX.	334	925	925	899	288	1430	1530	38	36	30	38	28	MAX.
MIN.	46	280	116	140	126	81	36	18	18	20	22	14	MIN.
AC. FT.	10010	34900	50800	32410	9185	24020	16780	1720	1365	1543E	1791	1319	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
256	1833	5.74	4	1	1950	12	1.21	9	19	0100	185800

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	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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	691	410	1020	904	448	275 *	1390	212 *	145	149	147	178
2	691	397	1010	931	381	275	1470	224	157	147 *	142	170
3	720	391 *	1010	934	339	254	1500 *	238	165	138	154	161 *
4	754 *	388	1010 *	941 *	328	237	1190	228	137	136	190	164
5	731	404	1010	941	318	228	1090	237	137	168	189	173
6	722	391	1020	943	313	224	946	219	212	155	189 *	174
7	722	378	1010	941	312 *	224	789	202	187 *	143	184	165
8	737	351	1010	937	309	246	723	193	184	156	170	157
9	750	345	983	937	304	322	645	200	197	144	157	155
10	645	351	974	946	303	306	465	207	163	146	145	137
11	498	360	969	960	303	246	396	195	149	161	147	173
12	420	360	908	953	298	226	340	202	160	160	136	178
13	440	354	654	872	298	224	315	207	158	160	146	174
14	447	357	339	667	295	221	295	220	172	164	130	144
15	447	357	701	617	294	264	281	212	168	180	109	158
16	430	357	892	615	285	322	249	206	195	146	112	168
17	506	423	927	598	301	388	229	206	167	138	158	172
18	561	737	948	586	301	474	230	173	167	127	175	167
19	627	901	960	537	333	375	234	196	160	131	181	172
20	688	952	950	512	307	342	232	186	135	132	170	161
21	763	976	945	501	356	333	281	179	147	158	175	174
22	829	995	941	488	386	568	271	200	160	148	193	201
23	739	1000	943	481	353	756	236	205	200	137	192	196
24	647	1000	943	526	315	870	236	236	193	133	196	177
25	631	1010	943	524	306	988	213	211	171	140	200	192
26	603	1010	938	515	292	957	203	175	159	149	178	229
27	605	1010	938	433	288	886	192	193	181	156	179	216
28	647	1010	938	368	285	782	246	168	178	165	165	206
29	621	1010	936	342	278	723	261	173	145	156	171	206
30	545	1020	934	342		1170	217	158	148	138	159	202
31	469		904	380		1310		160		140	166	
MEAN	623	634	923	683	318	484	512	201	167	148	165	177
MAX.	829	1020	1020	960	448	1310	1500	238	212	180	200	229
MIN.	420	345	339	342	278	221	192	158	135	127	109	137
AC. FT.	38330	37700	56740	41990	18310	29780	30480	12340	9911	9126	10130	10510

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
421	1586	34.34	4	3	0420	95	26.70	8	16	0530	305300

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				OCT 62-DATE	MAR 50-SEP 62	1950	1951	0.00	USED
								1951		0.00	USCGS

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.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	807020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2460	3740	3930	3120	2560	3420	2620	798	549	517	549	898	1
2	2470	3660	3970	3130	2510	3300	2930	780	601	469	577	898	2
3	2500 *	3500	3860	3170	2420	2910	3060	816 *	650	477	581	857	3
4	2530	3430	3710	3280	2200	2620	2750	826	593	485	646	834	4
5	2570	3350	3620	3400	2140	2840	2570	920	589	485	708	803	5
6	2600	3270 *	3790	3500	2100	3020	2440	975	646	485	682 *	857	6
7	2660	3190	3820	3540	2170	3020	2130	930	654 *	469	646	893	7
8	2700	3320	3890	3330	2110	3190	1900 *	911	632	469	618	965	8
9	2720	3360	3890	3300	2150 *	3250	1680	870	704	465	589	980	9
10	2450	3430	3870	3500	2410	3370	1440	848	749	469	610	893	10
11	2260	3500	3710	3570	2540	2980	1240	893	690	469 *	677	852	11
12	2180	3530	3640	3480	2480	2840 *	1120	970	623	469	677	916	12
13	2190	3460	3740	3400	2290	3000	1100	1040	593	489	641	935	13
14	2180	3350	3640	3190	2210	3040	1100	1140	628	525	636	945	14
15	2200	3440	3740	3010	2240	3000 *	1160	1120	610	585	618	1000	15
16	2380	3470	3930	2910 *	2130	3090	1000	1040	581	569	623	1030 *	16
17	2350	3420	3880	2840	2020	3140	906	995	641	549	610	960	17
18	2360	3350	3770 *	2820	1950	3360	930	960	589	501	754	935	18
19	2420	3450	3720	2800	1910	3310	844	950	577	457	812	884	19
20	2570	3470	3720	2740	1900	3680	830	995	493	453	834	875	20
21	2760	3490	3570	2700	2110	3750	862	902	553 *	469	893	893	21
22	2990	3700	3570	2560	2880	3770	945	875	529	561	985	925	22
23	3070	3620	3580	2320	3360	3620	940	844	585	553	1020	975	23
24	2940	3470	3450	2470	4100	3350	945	893	641	513	950	980	24
25	3030	3350	3330	2530	4120	3160	980	884	549	481	950	980	25
26	3320	3510	3260	2540	3980	3000	925	844	489	497	1040	1010	26
27	3590	3420	3230	2500	3830	2920	880	875	501	521	1040	1070	27
28	3660	3430	3250	2400	3590	2690	955	794	533	533	980	1020	28
29	3420	3730	3230	2300	3470	2260	980	700	485	573	1030	1030	29
30	3300	3780	3210	2290		2370	902	654	489	529	960	1050	30
31	3660		3160	2510		2620		581		505	880		31
MEAN	2725	3473	3635	2940	2617	3093	1435	891	592	503	768	938	MEAN
MAX.	3660	3780	3970	3570	4120	3770	3060	1140	749	585	1040	1070	MAX.
MIN.	2180	3190	3160	2290	1900	2260	830	581	485	453	549	803	MIN.
AC. FT.	167600	206700	223500	180800	150500	190200	85420	54790	35200	30920	47240	55820	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
1968	4250	15.26	2	24	2100	453	9.32	7	20		1429000

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					
						JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C01120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	22	0	73	52	52	0							1
2	22	0	73	51	52	0							2
3	22	0	73	29	26	0							3
4	22	0	73	45	0	0							4
5	22	0	70	73	0	0							5
6	22	0	66	73	0	0							6
7	22	0	35	75	0	0							7
8	13	0	21	72	0	19							8
9	2	0	21	105	0	33							9
10	2	0	21	110	0	40							10
11	2	0	21	107	0	26							11
12	1	0	6	105	0	22	N	N	N	N	N	N	12
13	1	20	19	105	0	15	O	O	O	O	O	O	13
14	0	20	30	116	0	9							14
15	8	20	30	120	0	5							15
16	8	20	30	131	0	4	F	F	F	F	F	F	16
17	2	20	30	159	0	4	L	L	L	L	L	L	17
18	1	40	20	119	0	0	O	O	O	O	O	O	18
19	0	50	3	96	0	0	W	W	W	W	W	W	19
20	0	50	12	50	0	0							20
21	0	52	13	0	0	0							21
22	0	52	0	0	0	0							22
23	0	52	0	0	0	0							23
24	0	52	0	8	0	0							24
25	0	56	0	43	0	0							25
26	0	56	30	41	0	0							26
27	0	48	47	73	0	0							27
28	0	54	45	99	0	0							28
29	0	56	43	65	0	0							29
30	0	63	50	52		0							30
31	0		50	52		0							31
MEAN	22	63	73	159	52	40							MEAN
MAX.	0	0	0	0	0	0							MAX
MIN.	6	26	32	72	4	6							MIN.
AC. FT.	385	1549	1993	4415	258	351							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
12.3	162		1	17	1200	0					8951

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 10	119 50	20S 19E	4010a		11-22-50	37-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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C02602	CROSS CREEK BELOW LAKELAND CANAL #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													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				21-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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	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	4	4	2	5	2	4	0	1
2		0			0	4	4	3	6	2	1	0	2
3		3.7			0	3	5	4	6	4	0	0	3
4		7			0	4	4	4	3	4	0	0	4
5		7			0	3	4	4	3	4	0	0	5
6		7			0	3	4	4	2	4	0	0	6
7		2			0	4	4	2	5	4	4	0	7
8		0			1.5	4	4	2	6	4	5	0	8
9		0			7.8	4	4	2	6	1	5	0	9
10		0			7.6	3	2	2	2	0	2	0	10
11		0			7.0	4	2	2	0	3	0	0	11
12	N	0	N	N	5.9	3	2	1	0	6	3	3	12
13	O	0	O	O	5.1	4	2	0	0	7	4	5	13
14		0			4.6	3	2	0	0	8	4	6	14
15		0			4.4	2	2	0	0	8	4	6	15
16	F	0	F	F	4.4	2	2	3	0	9	1	6	16
17	L	0	L	L	4.4	2	2	4	0	7	0	1	17
18	O	0	O	O	4.4	3	2	4	5	5	0	0	18
19	W	0	W	W	4.4	3	2	4	8	5	4	0	19
20		0			4.4	6	2	1	9	4	5	0	20
21		0			4.4	7	2	0	10	4	5	0	21
22		0			4.4	7	2	0	10	5	5	0	22
23		0			4.4	4	2	0	10	6	1	0	23
24		0			4.1	3	1	0	8	6	0	0	24
25		0			4.1	3	2	0	5	7	0	0	25
26		0			4.8	4	1	0	3	8	0	0	26
27		0			5.1	4	2	0	3	7	0	0	27
28		0			5.1	4	1	3	3	5	0	0	28
29		0			5.1	4	2	4	3	6	0	0	29
30		0				4	1.5	4	2	4	0	0	30
31						4.5		4		4	0		31
MEAN		0.9			3.7	3.8	2.5	2.0	4.1	4.9	1.8	0.9	MEAN
MAX.		7			7.8	7	5	4	10	9	5	6	MAX
MIN.		0			0	2	1	0	0	0	0	0	MIN
AC. FT.		53			213	231	150	125	244	303	113	54	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
2.0											1486

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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	105	0							1
2				0	94	0							2
3				15	90	0							3
4				41	90	0							4
5				50	90	0							5
6				50	140	0							6
7				50	167	0							7
8				50	170	.5							8
9				57	205	0							9
10				60	238	0							10
11				60	246	0							11
12	N	N	N	74	246	0	N	N	N	N	N	N	12
13	O	O	O	80	246	0	O	O	O	O	O	O	13
14				80	205	0							14
15				80	158	0							15
16	F	F	F	80	151	0	F	F	F	F	F	F	16
17	L	L	L	80	133	0	L	L	L	L	L	L	17
18	O	O	O	64	126	0	O	O	O	O	O	O	18
19	W	W	W	59	127	0	W	W	W	W	W	W	19
20				67	127	0							20
21				70	127	0							21
22				69	127	0							22
23				94	148	0							23
24				104	178	0							24
25				104	185	0							25
26				104	185	0							26
27				104	99	0							27
28				104	65	0							28
29				105	21	0							29
30				104		0							30
31				104		0							31
MEAN				69.8	148	0.0							MEAN
MAX.				105	246	0.5							MAX.
MIN.				0	21	0							MIN.
AC. FT.				4290	8507	1							AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
17.6											12798

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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	83	14	0.0	7.1	102	0.6							1
2	78	3.1	0.0	7.1	91	0.0							2
3	75	0.0	0.0	12	83	0.0							3
4	78	0.0	0.0	25	68	0.0							4
5	75	0.0	34	34	54	0.0							5
6	78	0.0	54	34	80	0.0							6
7	80	0.0	43	34	99	0.0							7
8	78	0.0	49	35	108	0.0							8
9	72	0.0	25	34	129	0.0							9
10	72	0.0	20	32	133	0.0							10
11	75	0.0	27	34	143	0.0							11
12	75	0.0	25	49	153	0.0	N	N	N	N	N	N	12
13	78	0.0	30	63	156	0.0	O	O	O	O	O	O	13
14	80	0.0	7.1	60	143	0.0							14
15	78	0.0	10	70	120	0.0							15
16	70	0.0	16	83	123	0.0	F	F	F	F	F	F	16
17	65	0.0	15	75	120	0.0	L	L	L	L	L	L	17
18	68	0.0	23 *	56	117	0.0	O	O	O	O	O	O	18
19	65	0.0	27	54	123	0.0	W	W	W	W	W	W	19
20	70	0.0	11	54	126	0.0							20
21	75	0.0	1.4	56	114	0.0							21
22	78	0.0	12	58	111	0.0							22
23	80	0.0	14	88	133	0.0							23
24	80	0.0	9	105	153	0.0							24
25	80	0.0	9	96	174	0.0							25
26	78	0.0	8	80	192	0.0							26
27	75	0.0	4.5	88	111	0.0							27
28	72	0.0	4.5	99	68	0.0							28
29	70	0.0	4.5	91	11	0.0							29
30	72	0.0	3.7	85		0.0							30
31	63		6.2	94		0.0							31
MEAN	74.7	0.6	15.9	57.8	115	0.01							MEAN
MAX.	83	14	54	105	192	0.6							MAX.
MIN.	63	0.0	0.0	7.1	11	0.0							MIN.
AC. FT.	4594	34	978	3555	6621	1							AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
21.7											15780

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 04 40	119 06 22	NW 30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE		1957	1959	0.00	LOCAL
								1959		-3.48	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. Reviewed by DWR.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	12	8.4			0.0	14	0.0	9.7	13	10 *	7.5	9.3	1
2	12 *	7.2*			0.0	14	0.0	9.7	12	9.3	8.4	9.3	2
3	11	6.5			0.0	13	0.0	10	10 *	10	8.1	7.8*	3
4	11	6.5			0.0	13 *	0.0	9.0	10	9.7	7.8	7.5	4
5	11	7.5			0.0	13	0.0	9.3	11	9.3	7.2*	8.4	5
6	12	6.2			0.0	14	0.0	10 *	11	9.0	7.2	7.8	6
7	12	6.8*			0.0	14	0.0	10	11	9.0	8.4	8.4	7
8	12	6.5			4.5	14	0.0	10	11	10 *	7.8	9.0	8
9	12	5.5			16	14	0.0	9.7	11	10	8.7	9.0*	9
10	12	4.5			17	14	0.0	9.3	11 *	10	8.1	8.7	10
11	12	6.2			17	14 *	1.4	9.0	11	10	8.4	8.7	11
12	13	6.5	N	N	15 *	13	12	8.4	11	10	8.7*	8.7	12
13	12	6.0*	O	O	14	13	18	10 *	12	9.7	8.1	8.4	13
14	12	5.2			14	12	19	8.7	12	9.3	8.4	8.1	14
15	12	4.2			14	12	17 *	8.7	11	9.3*	9.0	8.1	15
16	13	5.2	F	F	14	13	14	8.7	11	8.7	8.4	8.7	16
17	12	5.2	L	L	14	14 *	13 *	8.7	11	10	8.1	8.7	17
18	12	4.5	O	O	14 *	14	12	8.4	11 *	10	7.8	8.1	18
19	12	2.2	W	W	13	7	9.7	8.1	10	9.0	8.4*	8.4	19
20	12	1.7*			13	0.0	8.7	8.7*	11	8.7	11	8.4	20
21	12	1.0			14	0.0	8.7	8.7	11	8.4	10	8.4	21
22	12	0.7			13	0.0	9.3*	8.4	10	9.7	8.7	8.4	22
23	12	0.5			12	0.0	11	8.1	11	9.0	8.7	8.4	23
24	12	0.4			14	0.0	9.7	8.1	11 *	8.4	8.1	8.4	24
25	12	0.0			14	0.0	12	8.1	10	8.4	8.1	8.7	25
26	12	0.0			14 *	0.0	8.7	7.8	11	8.1	8.1*	8.7	26
27	12	0.0			14	0.0	8.1	9.0*	11	8.1	8.4	8.7	27
28	12	0.0			14	0.0	8.1	10	10	8.4	7.8	9.3	28
29	12	0.0			14	0.0	8.4*	10	10	9.0*	7.5	9.3	29
30	12 *	0.0				0.0	9.0	9.3	11	9.0	5.5	8.7*	30
31	11					0.0		11		8.7	6.5		31
MEAN	11.9	3.8			10.4	8.0	7.3	9.1	10.9	9.2	8.2	8.6	MEAN
MAX.	13	8.4			17	14	19	11	13	10	11	9.3	MAX.
MIN.	11	0.0			0.0	0.0	0.0	7.8	10	8.1	5.5	7.5	MIN.
AC. FT.	734	228			600	494	432	560	651	568	502	509	AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
7.3											5277

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

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	50	2.4	0.0	55						0.0			1
2	49 *	2.0	0.0	56 *						0.0			2
3	52	1.4	0.0	56						0.0			3
4	52	1.0	0.0	56						0.0			4
5	51	0.4	0.0	57						0.0			5
6	51	0.0	0.0	57						0.0			6
7	51	0.0	0.0	57						0.0			7
8	51	0.0	0.4	40 *						0.0			8
9	55	0.0	9.0	3.0						0.0			9
10	60	0.0	23	2.2						0.0			10
11	60	0.0	33 *	1.6						0.0			11
12	59	0.0	38	8.4	N	N	N	N	N	0.0	N	N	12
13	60	0.0	31	42	O	O	O	O	O	0.0	O	O	13
14	60	0.0	29	42						0.0			14
15	59	0.0	14	43 *						0.0			15
16	58 *	0.0	1.8	43	F	F	F	F	F	0.0	F	F	16
17	58	0.0	0.9	43	L	L	L	L	L	0.0	L	L	17
18	57	0.0	0.0	43	O	O	O	O	O	0.0	O	O	18
19	56	0.0	33	43	W	W	W	W	W	0.0	W	W	19
20	51	0.0	65	43						0.0			20
21	45	0.0	68	43						0.0			21
22	45	0.0	61	43 *						2.9			22
23	43	0.0	60	43						16			23
24	44 *	0.0	61	17						18			24
25	43	0.0	60	3.0						24 *			25
26	43	0.0	59	2.3						25			26
27	42	0.0	55	2.3						25			27
28	42	0.0	54	2.0						17			28
29	41	0.0	55	0.7						4.4			29
30	40 *	0.0	55	0.0						0.0			30
31	15		55	00.0						0.0			31
MEAN	49.8	0.2	29.7	30.6						4.3			MEAN
MAX.	60	2.4	68	57						25			MAX.
MIN.	15	0.0	0.0	0.0						0.0			MIN.
AC. FT.	3060	14	1827	1879						262			AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
9.7											7044

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 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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	13	2.5											1
2	14 *	0.0											2
3	14	0.0											3
4	13	0.0											4
5	13	0.0											5
6	14	0.0											6
7	13	0.0											7
8	13	0.0											8
9	14	0.0											9
10	15	0.0											10
11	15	0.0											11
12	14	0.0	N	N	N	N	N	N	N	N	N	N	12
13	14	0.0	O	O	O	O	O	O	O	O	O	O	13
14	13	0.0											14
15	14	0.0											15
16	14	0.0	F	F	F	F	F	F	F	F	F	F	16
17	14	0.0	L	L	L	L	L	L	L	L	L	L	17
18	13	0.0	O	O	O	O	O	O	O	O	O	O	18
19	14	0.0	W	W	W	W	W	W	W	W	W	W	19
20	13	0.0											20
21	11	0.0											21
22	8.2	0.0											22
23	8.7	0.0											23
24	10	0.0											24
25	10	0.0											25
26	10	0.0											26
27	10	0.0											27
28	11	0.0											28
29	12	0.0											29
30	13 *	0.0											30
31	7.5												31
MEAN	12.4	0.1											MEAN
MAX.	15	2.5											MAX.
MIN.	7.5	0.0											MIN.
AC. FT.	764	5											AC.FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1.1											769

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 06	119 01 06	SE 26 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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.4			0.0	4.5	5.0	0.0	0.0	0.1	4.8*	4.5	1.3	1
2	2.4*			0.0	4.5	5.0	0.0	0.1	0.1	3.8	4.5	1.2	2
3	3.1			0.0	4.5	5.0	0.0	0.1	2.2	3.9	4.0	1.6*	3
4	3.1			0.0	4.5	5.0*	0.0	0.2	4.0*	3.7	2.3	2.2	4
5	3.0			0.0	4.5*	5.2	0.0	0.2	3.9	3.6	4.5	1.3	5
6	3.0			0.0	4.3	5.3	0.0	0.0	4.0	3.7	4.5	1.0	6
7	3.0			0.0	3.1	2.3	0.0	0.3	4.0	3.7	4.6	0.9	7
8	2.9			0.0	2.7	0.6	0.0	0.2	4.1	4.5*	4.6	0.8	8
9	2.3*			0.0	2.2	0.4	0.0	0.1	4.1	5.0	4.5	1.5*	9
10	1.7			0.0	3.9	0.4	0.0	0.1	4.3*	5.1	4.3	4.0	10
11	1.9			0.0	2.7	0.3*	0.0	0.2	4.6	5.2	4.3	3.3	11
12	2.3	N	N	0.0	4.4*	0.3	0.0	0.3	4.6	5.3	4.3*	3.0	12
13	2.6	O	O	0.0	4.5	0.3	0.0	0.3	4.6	5.3	4.2	3.0	13
14	2.6			0.0	4.5	0.2	0.0	0.2	4.6	5.2	3.6	2.9	14
15	2.7			0.0	4.5	0.1	0.0	2.6	4.6	5.3*	2.8	3.0	15
16	2.8	F	F	0.0	4.5	0.1	0.0	4.3*	4.6	4.4	0.2	3.0	16
17	2.3	L	L	2.9	4.4	0.0	0.0	4.3	4.5	4.3	1.0	2.7	17
18	2.3	O	O	4.5	3.9	0.0	0.0	4.2	4.5*	4.3	3.5	2.6	18
19	2.4	W	W	4.5	3.5*	0.0	1.1	4.1	4.2	4.3	4.1*	2.4	19
20	2.4			4.5	4.4	0.0	3.6	4.1*	4.1	4.3	4.5	2.3	20
21	2.4			4.5	4.8	0.0	3.3	4.1	4.0	4.3	4.6	2.2	21
22	2.4			4.5*	5.1	0.0	1.7	4.1	3.9	4.9*	4.4	2.1	22
23	2.4			4.5	5.2	0.0	0.0	4.1	4.1	4.8	4.4	2.1	23
24	2.4			4.5	5.2	0.0	0.0	4.1	4.5*	4.6	4.3	1.8	24
25	2.4*			4.5	5.2	0.0	0.2	4.0	5.0	4.7	4.3	1.3	25
26	2.4			4.5	5.2*	0.0	0.2	4.0	5.2	4.6	4.3*	1.6	26
27	2.4			4.5	5.1	0.0	0.1	3.9	5.2	4.6	4.0	1.6	27
28	2.4			4.5	5.0	0.0	0.1	3.6	5.0	4.6	3.7	2.2	28
29	2.4			4.5*	5.0	0.0	0.1	1.3	4.9	4.6	2.9	2.6	29
30	2.4*			4.5		0.0	0.1	0.1	4.8	4.5	1.9	2.7*	30
31	2.7			4.5		0.0		0.0		4.4	1.5		31
MEAN	2.5			2.1	4.3	1.1	0.4	1.9	4.1	4.5	3.7	2.1	MEAN
MAX.	3.1			4.5	5.2	5.3	3.6	4.3	5.2	5.3	4.6	4.0	MAX.
MIN.	1.7			0.0	2.2	0.0	0.0	0.0	0.1	3.6	0.2	0.8	MIN.
AC. FT.	154			131	250	70	21	117	243	278	228	127	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
2.2											1619

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 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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	67	0.0	49	29	16	68		0.0	0.1	85	23	0.3	1
2	67	0.0	46	31 *	15	67		0.0	0.3	15	1.3	0.0	2
3	66	0.0	41	32	18	67		0.0	0.5	0.7	1.3	0.0	3
4	67	0.0	38 *	33	22	68 *		0.0	0.6	0.7	1.3	0.0	4
5	68	0.0	37	33	24 *	68		0.0	0.7	0.7	8.0	0.0	5
6	68	0.0	37	33	5.8	68		0.0	0.9	0.7	64	0.0	6
7	67	0.0	37	32	0.5	69		0.0	1.0	0.7	92	0.0	7
8	69	0.0	36	33	0.4	67		0.0	1.1	7.4	105 *	0.0	8
9	72 *	0.0	40	32	0.0	64		0.0	1.2	79	104	0.0	9
10	76	0.0	43	31	0.0	43		0.0	46	97 *	105	0.2	10
11	77	0.0	43 *	31	0.0	5.5		0.0	78	105	105	1.0	11
12	76	0.0	45	22	0.0	0.7	N	0.0	85	106	103	0.6	12
13	74	0.0	43	16	0.0	0.5	O	3.5*	86	105	101	0.9	13
14	74	0.0	41	17	0.0	0.4		2.6	86	104	18	0.5	14
15	74	0.0	39	16 *	0.0	0.4		16	87	104	1.2	0.0	15
16	74	0.0	38	16	0.0	0.4	F	28 *	88	16	1.1	0.2	16
17	74	0.0	38	16	0.0	0.4	L	28	85 *	1.5	0.9	0.0	17
18	68	0.0	35 *	16	0.0	0.5	O	21	80	1.6	0.9	0.0	18
19	64	0.0	32	16	0.0	0.6	W	26	17	1.6	1.0	0.0	19
20	62	0.0	33	16	0.0	0.5		24 *	1.1	1.5	22	0.0	20
21	62	0.0	35	16	5.6	0.5		24	0.9	1.5	67 *	0.0	21
22	63	0.0	30	15 *	49	0.6		24	0.7	9.6	68	0.0	22
23	63 *	0.0	28	16	77	0.6		23	0.8	66	64	0.0	23
24	63	0.0	27	16	73	0.4		22	6.3	88	62	0.0	24
25	63	0.0	27	16	71	0.4		21	56	110	63	0.0	25
26	63	0.0	32 *	16	72 *	0.4		20	98 *	109	63	0.0	26
27	62	0.0	34	16	76	0.4		11 *	106	103	54	0.0	27
28	58	0.0	34	16	72	0.3		0.1	105	103	19	0.0	28
29	53	0.0	34	16 *	69	0.0		0.1	103	103 *	1.0	0.0	29
30	50 *	19	32	16		0.0		0.1	101	101	0.9	0.0	30
31	14		29	16		0.0		0.1		92	0.7		31
MEAN	65.1	0.6	36.5	21.8	23.0	21.4		9.5	44.1	55.5	42.6	0.1	MEAN
MAX.	77	19	49	33	77	69		28	106	110	105	1.0	MAX.
MIN.	14	0.0	27	15	0.0	0.0		0.0	0.1	0.7	0.7	0.0	MIN.
AC. FT.	4003	38	2247	1341	1322	1314		584	2624	3410	2621	7	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
26.9											1951

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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	3.6				0.0	0.0	1.7*	7.4	0.0	25	7.8	1.0
2	5.9				0.0	0.0	3.0	9.3	3.7	23 *	2.0	0.0
2	13				0.0	0.0	4.7	5.3	10 *	23	0.0	0.0
4	7.0				0.0	0.0	4.9	2.6	8.1	23	0.0	0.0
5	7.0				0.0	0.0	4.9	0.0	9.6	20	4.3	0.0
6	7.0				0.0	0.0	5.0	0.0	12	19	10 *	0.0
7	6.6				0.0	3.0	5.1	3.0*	13	20	11	0.0
8	6.6				0.0	1.2	6.6*	4.1	12	21 *	10	0.0
9	9.0				0.0	0.0	6.3	5.3	11	21	10	0.0
10	7.2				0.0	0.0	3.3	4.6	11	21	10	0.0
11	7.2				0.0	3.1*	0.0	4.6	12	22	10	2.5
12	7.2	N	N	N	2.9*	8.4	0.0	2.9	13	22	11 *	4.5
12	7.2	O	O	O	4.3	8.2*	0.0	4.1*	18	21	9.1	2.6
14	7.0				2.2	7.8*	0.0	3.0	19	21	7.1	0.0
15	7.6				0.0	8.1*	0.0	3.4	20	21 *	2.5	0.0
16	11	F	F	F	0.0	7.8	0.0	0.0	20	16	0.0	0.0
17	8.3	L	L	L	0.0	7.5	2.5*	0.0	20	14 *	0.0	0.0
18	8.3	O	O	O	0.0	7.6*	3.5	0.0	20	16	0.0	0.0
19	9.4	W	W	W	0.0	8.1	1.2	0.0	20	13	0.0	0.0
20	11				0.0	5.4	0.0	3.8*	22	9.3	0.0	0.0
21	11				0.0	4.1	0.0	6.2	22	9.0	6.4	0.0
22	9.4				0.0	4.4	0.0	4.2	22	9.7*	7.6	0.0
22	9.4*				0.0	1.1	0.0	3.0	22	9.7	7.5	0.0
24	14				0.0	0.0	0.0	3.0	24	8.5	7.8	0.0
25	13				0.0	0.0	2.1	1.7	25 *	9.6	8.1	0.0
26	14				0.0	0.0	2.9	0.3	26	10	8.3*	0.0
27	13				0.0	0.0	4.3	0.0	26	9.5	8.1	0.0
28	10				0.0	0.0	5.0	0.0	26	9.6	7.9	0.0
29	9.2				0.0	0.0	4.1*	0.0	26	9.5*	4.7	0.0
30	9.8*					0.0	4.3	0.0	25	9.6	2.7	0.0
31	5.9					0.0		0.0		9.6	2.2	
MEAN	8.9				0.3	2.8	2.5	2.6	17.3	16.0	5.7	0.4
MAX.	14				4.3	8.4	6.6	9.3	26	25	11	4.5
MIN.	3.6				0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.0
AC. FT.	547				19	170	150	162	1028	983	349	21

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
4.7											3429

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 DWR.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03940	RHODES-FINE DITCH NEAR PORTERVILLE

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						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 ON GAGE	REF. DATUM
36 03 26	119 04 13	SE32 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

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

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1			0.0	32	34 *				0.0	164	49	
2			0.0	32 *	34				0.0	70	0.0	
3			0.0	32	34				0.0	0.0	0.0	
4			0.0	31	37				0.0	0.0	0.0	
5			0.0	32	39 *				0.0	0.0	9.9	
6			11	32	45				0.0	0.0	93	
7			29	32	50				0.0	0.0	124	
8			32	32 *	54				0.0	0.0	161	
9			36	37	58				0.0	162	155	
10			35	43	62				0.0	155	158	
11			28 *	39	64				0.0	172 *	163	
12	N	N	24	39	68 *	N	N	N	0.0	186	162	N
13	O	O	25	41	69	O	O	O	0.0	185	137 *	O
14			26	41	28				0.0	179	32	
15			31	34 *	0.0				0.0	174	0.0	
16	F	F	34	25	0.0	F	F	F	0.0	38	0.0	F
17	L	L	33	26	0.0	L	L	L	0.0	0.0	0.0	L
18	O	O	32 *	27	0.0	O	O	O	0.0	0.0	0.0	O
19	W	W	32	26	0.0	W	W	W	0.0	0.0	0.0	W
20			27	32	0.0				0.0	0.0	0.0	
21			23	36	0.0				0.0	0.0	0.0	
22			26	36 *	0.0				0.0	0.0	0.0	
23			30	34	0.0				0.0	103	0.0	
24			33	32	0.0				0.0	87	0.0	
25			33	32	0.0				62	161	0.0	
26			32 *	32	0.0				137	186	0.0	
27			31	32	0.0				171	207	0.0	
28			31	32	0.0				191 *	199	0.0	
29			31	33 *	0.0				187	195	0.0	
30			31	34					167	172	0.0	
31			32	34 *						162	0.0	
MEAN			24.8	33.3	23.3				30.5	95.4	40.1	
MAX.			36	43	69				191	207	163	
MIN.			0.0	25	0.0				0.0	0.0	0.0	
AC. FT.			1523	2047	1341				1815	5865	2467	

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
20.7											15060

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-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2280	889	629	570	539	833	853	940	1003	1457	1181	279	1
2	2295	895	644	558	539	815	652	944	990	1408	1204	287	2
2	2323	954	644	529	545	864	749	923	1008	1440	1195	298	3
4	2342	954	646	529	547	887	671	938	1047	1389	1138	318	4
5	2231	954	635	523	579	894	678	894	1086	1335	1159	327	5
6	2259	954	635	526	621	941	661	824	1128	1364	1223	318	6
7	2238	952	622	519	615	940	650	827	1233	1440	1302	279	7
8	2214	902	597	505	577	823	682	824	1340	1494	1290	262	8
9	2234	1004	584	496	566	830	741	841	1431	1513	1254	294	9
10	2173	1156	567	503	545	803	813	841	1427	1565	1254	267	10
11	1952	1332	557	512	556	782	827	778	1460	1532	1256	251	11
12	969	1217	553	579	573	742	849	747	1544	1479	1234	239	12
12	889	1178	539	566	613	679	771	785	1610	1435	1192	216	13
14	833	1016	502	512	633	661	672	771	1660	1447	1156	196	14
15	740	993	440	512	654	624	857	766	1608	1462	1084	188	15
16	704	980	449	516	621	610	872	754	1622	1394	1113	194	16
17	684	898	452	557	612	595	908	668	1678	1343	1055	192	17
18	666	877	489	569	577	588	854	688	1727	1330	1006	206	18
19	683	885	604	565	636	587	800	776	1770	1286	988	185	19
20	913	907	583	520	665	625	732	829	1747	1184	993	183	20
21	1051	957	580	524	680	672	737	845	1667	1141	968	189	21
22	1062	957	583	526	649	656	708	761	1546	1164	650	178	22
23	1074	957	593	528	628	623	730	886	1537	1214	552	164	23
24	1082	957	593	529	617	688	743	883	1600	1293	484	179	24
25	1079	957	593	525	670	688	739	857	1576	1291	415	184	25
26	1080	957	593	573	741	679	678	857	1661	1294	417	165	26
27	1048	957	594	587	815	644	657	882	1705	1263	415	199	27
28	957	861	592	562	853	686	722	914	1714	1257	394	194	28
29	962	591	602	556	827	691	824	996	1692	1244	348	210	29
30	950	588	595	539		703	875	1015	1573	1179	327	244	30
31	888		600	567		786		1041		1177	281		31
MEAN	1382	955	577	538	631	730	757	848	1480	1349	920	230	MEAN
MAX.	2342	1332	646	587	853	941	908	1041	1770	1565	1302	327	MAX.
MIN.	666	588	440	496	539	587	650	668	990	1141	281	164	MIN.
AC. FT.	85002	56799	35482	33088	36284	44904	45035	52155	88046	82937	56584	13656	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
868											630000

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	14.2	11-19-50	93-DATE					

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 Land Company. Drainage area is 2,407 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	CD712D	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 DAILY FLOWS								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
		1.72	11	21	1920	0.0		10	01	0000	

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

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

TABLE B-5

DIVERSIONS

Monthly and annual acre-feet of water diverted are shown in this Table for the San Joaquin, Stanislaus, Tuolumne, Merced, and Tule Rivers, and Dry Creek, a tributary to the Tuolumne River, for the 1968 water year. Diversion points which divert less than 200 acre-feet annually based on a three-year average are discontinued from the program. This allows for collection and publication of approximately 95 percent of the water diverted for use by measuring and collection of record on about 50 percent of the total diversion points.

Monthly diversion values have been rounded off as follows:

1. Individual diversions - acre-feet

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

2. Total monthly diversion - cubic feet per second

   All values to nearest unit.

3. Monthly use in percent

   All values to nearest tenth.

Data received from outside agencies are published as received and are not rounded to the criteria used by the Department of Water Resources.

TABLE B-5

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge)
October 1967 through September 1968

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.	
--DURHAM FERRY BRIDGE--	76.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.7														
Moresco Brothers	78.9 R	1-14 1-24						66	316	811	472	510	246		2421
Cruze, Trudel and Gillmeister	79.4 R	1-20	34						87	66	95	108	70	21	481
--STANISLAUS RIVER--	79.7 R														
Faith Ranch	79.8 R	1-16	92	22				58	115	133	152	151	182	87	992
W. C. Blewett Estate	80.7 L	1-12							299	285	211	243	125	6	1169
W. C. Blewett Estate	81.8 L	2-12 1-14	30					74	539	1230	764	1050	683	165	4535
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	81.85														
Blewett Mutual Water Company	81.95L	1-10 2-12 1-14	120						515	1200	979	1190	846	392	5242
El Solyo Water District	82.0 L	1-10 1-16 3-18	90					18	2260	3090	2340	3250	1960	869	13880
--HETCH HETCHY AQUEDUCT CROSSING--	82.65														
El Solyo Ranch	82.9 L	1-16	48						7	43	220	81	160	72	631
El Solyo Ranch	83.5 L	1-12	56						36	73	187	162	174	46	734
El Solyo Ranch	83.7 L	1-12							117	90	258	176	245	167	1053
Faith Ranch	84.4 R	1-16 1-20	787	206	63			260	655	815	959	981	1010	826	6562
--GAGING STATION - SAN JOAQUIN RIVER AT CALDWELL--	90.95														
--TUOLUMNE RIVER--	91.0 R														
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL	91.8 L														
West Stanislaus Irrigation	91.8 L	1-12 1-24 6-26	1380	528	154	1040	484	3340	7850	8570	7440	9270	5620	1100	46780
Fred Lara #1	* (0.6S)	1-14						40	245	233	519	406	63	280	1786
E. E. Hagemann Ranch #1	* (0.7N)	3-16	14	4				45	552	631	919	859	484	211	3719
E. E. Hagemann Ranch #2	* (1.1N)	1-14 1-16		156				32	1000	862	853	812	681	653	5049
Fred Lara #2	* (2.2S)	1-16	14						20		53	22			109
E. E. Hagemann Ranch #3	* (2.3N)	2-16	88						155	252	167	131	174	75	1042
John and Robert Bogetti a	92.1 R	1-12							93	32	130	117	47	125	544
John and Robert Bogetti	93.1 R b	1-10 1-12 1-14	8						390	770	966	705	744	100	3683
George Covert c	94.1 L	1- 3 1- 6								18	2	12	18		50
Rancho Dos Rios	94.7 R	1-12	136	25	3	4	2		293	222	319	450	487	262	2203
E. L. Brazil	95.5 R	1-16	202	82				1	257	142	304	410	272	209	1879
Island Dairy	96.0 L	1-18	50	2		2	3	193	531	271	509	753	445	307	3066
--LAIRD SLOUGH BRIDGE--	96.05														
Rancho El Rescadero	98.9 L	1-18							405	205	309	204			1123
Patterson Water District	104.4 L	1-14 2-18 3-20 1-36						1570	8020	7690	7140	7570	7400	4230	43620
Chase Brothers	104.5 R	1-18	322						308	414	272	601	202	262	2381
--PATTERSON BRIDGE--	104.6														
Chase Brothers	106.5 R	1-12	80						282	416	509	439	383	627	2736
Tony Spinelli	109.1 R	1-12	79						48	39	46	34	38	38	322
Twin Oaks Irrigation Company	109.8 L	1-12 1-16 1-18 d 1-20	48						1180	1680	1320	1820	1120	1080	e 8248
T. J. Henderson	110.8 R	1- 8	44						6	39	50	188	117	164	608
L. A. Thompson	112.55R	1-18	61					129	97	198	132	150	145	153	1065
D. R. Lemos	113.4 R	1-12	2			42	18	46	124	139	115	125	83	86	780
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	113.4														

TABLE 8-5 (Cont.)

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge)
October 1967 through September 1968

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.	
D. R. Lemos	114.63R	1- 8	36						68	45	71	46	137	170	573
Arnold and Ben Souza	114.75R	2-10	94					272	225	240	361	426	360	216	2194
--ORESTIMBA CREEK--	115.2 L														
Roy F. Crow	115.8 L	1-10						215	208	175	157	218	58	246	1277
L. B. Crow	116.05L	1-14	60						210	194	200	133	192	99	1088
John W. Greer	116.15R	1- 8	12						36	38	39	67	39	43	274
John W. Greer	116.5 R	1-12							252	334	208	222	271	290	1577
Manuel A. Serpa	121.3 R	b 1-10 1-18	59						164	402	664	264	419	332	2304
--MERCED RIVER SLOUGH--	122.2 R														
Stevinson Corporation	122.6 L	1-16						146	177	333	249	352	216	150	1623
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7														
--MERCED RIVER--	123.75R														
Stevinson Corporation	129.1 R	1-16	231					373	442	691	501	466	403	463	3570
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
VERNALIS TO FREMONT FORD BRIDGE															
Total			4277	1025	220	1088	507	6878	28580	33110	31160	35170	26320	14620	183000
Average cubic feet per second			70	17	3.6	18	8.8	112	480	538	524	572	428	246	252
Monthly use in percent of seasonal			2.3	0.6	0.1	0.6	0.3	3.8	15.6	18.1	17.0	19.2	14.4	8.0	

* West Stanislaus Irrigation District Canal Intake Canal joins the San Joaquin River at mile 91.8L. Distance from the river and bank location of diversion are shown in parentheses.

a Installed prior to 1968. Not previously listed.

b The 10-inch unit was installed in 1968.

c Formerly listed as T. C. Daily

d Replaces a 16-inch unit.

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

TABLE B-3 (Cont.)

DIVERSIONS - SAN JOAQUIN RIVER
(Fremont Ford Bridge to Gravelly Ford)
October 1967 through September 1968

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	166.0														
San Luis Canal Company	186.6 L	Gravity	7438	2757	1722	220	5661	11768	17917	16932	24287	28693	26575	18165	164135
--FIREBAUGH BRIDGE--	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--															
--MENDOTA DAM--	208.63														
Central California Irrigation District	208.8 L	Gravity	20651	11960	218	2570	16403	42370	61390	63316	72931	81712	70836	32975	a 476232
--FRESNO SLOUGH-- b	209.0 L														
--DELTA-MENDOTA CANAL--	(0.2L)														
Firebaugh Canal Company b	(0.4L)		2555	1117		1146	3000	3693	4760	5454	5467	7244	6607	5649	c 46692
M. L. Dudley b	(3.4L)		194	14			274	416	324	426	524	432	498	319	3421
State of California Mendota Waterfowl Management b	(6.4L-8.2L)		4506	3053	970		99	373	1679	1904	1202	2908	2826	3846	23666
Fresno Slough Water District b	(9.2R-10.5R)		85				599	294	261	200	575	549	449	149	3160
--JAMES BYPASS--	(11.8R)														
Traction Ranch d e	(0.7L)		486	4		67	942	822	899	1089	1194	1589	1484	738	9314
Reclamation District 1606 e	(1.5L)						77	18			54	81	79		309
James Irrigation District e	(4.4L)		910	167			6672	5260	3301	3606	6222	9057	8817	1216	47228
Tranquillity Irrigation District b	(12.0R-13.7R)		167			534	6446	1463	1546	2180	5740	6321	4663	1144	f 30204
Melvin D. Hughes b	(12.2R)						24				18	16	36		94
--LONE WILLOW SLOUGH--	219.8 R														
Columbia Canal Company	219.8 R		2675	1694	36	532	2804	4582	6082	7349	8743	9392	8753	6034	58675
State Center Land Company		g 1-6	93	145	48									26	312
M. Beck		h 1-8	26		20										46
Tule Gun Club		1-8	30												30
Westlands Water District			1201	1252	359		3816	3047	2475	2640	4624	4691	2854	375	j 27334
Grasslands			19625	7375										6470	33370
J. W. Wilson							138				61	111	111		422
--GAGING STATION - SAN JOAQUIN RIVER AT WEST HOSE--	219.83														
--GRAVELLY FORD CANAL--	232.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			60842	29538	3373	5069	46956	74106	100633	107166	133752	152906	134677	77006	925044
Average cubic feet per second			989	480	55	82	816	1205	1692	1743	2245	2487	2190	1294	1274
Monthly use in percent of seasonal			6.6	3.1	0.4	0.5	5.1	8.0	10.9	11.6	14.4	16.5	14.6	8.3	

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

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 209.0L. Distance from the San Joaquin River and bank of slough on which diversion is located are shown in parentheses.
c Total does not include Firebaugh Canal Company deliveries from the Delta-Mendota Canal.
d Previously published as "Traction Water District".
e Plant is located on James Bypass which diverts from Fresno Slough at mile 11.8R. Distance from Fresno Slough and bank location of diversion are shown in parentheses.
f Includes deliveries to Glotz property under transfer to Westlands Water District.
g One 6-inch pump located on arm of slough at SW corner S. 12, T. 14 S., R. 15 E.
h One 8-inch pump located on arm of slough 1400 feet S. of NE corner, S. 24, T. 14 S., R. 15 E.
i One 8-inch pump located on arm of slough adjacent to M. Beck.
j Does not include transferred water delivered to Glotz property by Tranquillity Irrigation District and deliveries under separate agreements by Panoche Water District and San Luis Water District.

TABLE B-5 (Cont.)

DIVERSIONS - SAN JOAQUIN RIVER
(Gravelly Ford to Friant Dam)
October 1967 through September 1968

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.	
Carl H. Hobe	233.03R	2- 6	267	165	38			42	36	119	202	308	307	250	1834
United Packing Company	233.63L	1- 6	6					113	47	69	101	155	53	73	677
--SKAGGS BRIDGE--	238.26														
--U. S. HIGHWAY 99 BRIDGE--	247.38														
--SANTA FE RAILROAD BRIDGE--	249.23														
Miller Brothers	251.46L	1- 6	5	11	13				28	84	38	66	65	46	374
Sycamore Island Stock Ranch 5	255.34	1- 5		18				11	29	40	91	49	37	27	352
Oscar Spano River Ranch 4	256.38L	1- 8	65	41					94	65	78	54	73	50	518
Sycamore Island Stock Ranch 2	256.52R	1- 8							31	44	82	49	35	34	275
Oscar Spano River Ranch 1	257.10L	1-16	110	87					66	73	77	156	162	204	935
Oscar Spano River Ranch 2	257.70L	1-12	33	4			2		71	66	78	116	78	81	497
James Sims	258.08R	1- 6 1- 7							5	22	84	53	101	18	313
--STATE HIGHWAY 41 BRIDGE--	258.33														
W. E. Roberts 2	258.90L	1-12	145	13	7	7	6	40	76	175	173	192	180	195	1209
J. E. Cobb	259.39R	2- 6	3						4	13	75	68	73	12	248
--OLD LANES BRIDGE--	259.78														
J. E. Cobb 3	260.40R	1- 6	39	17					74	97	130	126	104	71	658
R. C. Arnold	261.53R	1- 4 1- 5	29	13					21	45	53	95	72	60	388
Duane M. Folsom	261.70L	1- 6	53	38					44	64	112	150	198	58	717
E. G. Rank, Jr.	262.32L	1- 5	33						33	46	53	74	92	27	358
W. H. Rohde	262.66L	1- 7	3						9	15	40	62	61	16	206
H. K. Jensen	263.76R	1- 5	32	16				5	56	40	60	52	73	52	386
W. F. Ball #2	264.04L	1- 6	57	14				12	81	53	46	59	45	45	412
Ike D. Ball	264.60R	1- 6	73	45				25	81	99	97	101	84	69	654
W. F. Ball	264.83L	1- 4 1- 5	56	16		1			63	75	82	53	75	71	531
Virgil Durando	267.56L	1- 8	54	3	1	2	4	52	28	101	176	207	154	121	903
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L														
--FRIANT BRIDGE--	268.88														
--COTTONWOOD CREEK--	269.53R														
--FRIANT DAM--	269.63														
GRAVELLY FORD TO FRIANT DAM															
Total			963	501	59	10	12	300	977	1425	1952	2325	2215	1536	12275
Average cubic feet per second			16	8	1	0	0	5	16	23	33	38	36	26	17
Monthly use in percent of seasonal			7.8	4.1	0.5	0.1	0.1	2.4	8.0	11.6	15.9	18.9	18.0	12.5	

TABLE B-5 (Cont.)

DIVERSIONS - STANISLAUS RIVER
October 1967 through September 1968

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
Moresco Brothers	1.9 R	1-16	15	5					38	18	105	16	67	38	302
C. C. Angyel	2.4 R	1-18	97							331	360	382	498	385	a 2053
Faith Ranch	3.4 L	2-12 1-16	487	134		1		185	374	455	561	554	575	397	3723
Reclamation District 2064	4.0 R	1-14 1-16 2-20	324	32				172	1090	1200	1870	1890	1490	994	9062
Reclamation District 2075	4.05R	2-16 1-20	562	162		28		470	1770	2470	2630	2900	2920	2240	16150
O. F. Koetitz	4.7 L	1-20	89						203	158	254	207	206	64	1181
E. T. Mape	4.75L	1-20							431	171	454	542	586	88	2272
Henry Pelucca	5.5 L	1-16							56	109	126	85	64	70	510
Alice Gill	6.4 L	1-14							157	96	173	116	199	211	a 952
D. J. Macedo	8.4 R	1-16	95						261	453	336	416	451	323	2335
N. E. Cannon	8.7 R	1-10	28					23	212	239	242	197	154	25	1120
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH--	9.35L														
O. F. Koetitz	9.4 L	1-12							282	230	306	305	278	238	1639
John L. Hertle	9.8 L	1-10							37	52	48	64	31	2	234
Joe Lourence	10.0 R	1-16							176	76	151	175	137	147	862
Joe Lourence	10.5 R	1-16	77		31			11	103	50	162	141	131	125	831
--GAGING STATION - STANISLAUS RIVER AT RIPON--	15.7 L														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7														
--U. S. HIGHWAY 99 BRIDGE--	15.7														
A. Girardi	17.7 L	1-16							94	65	285	196	154	117	a 911
Estate of Robert Paul Barton and Alice Lee Barton	19.0 R	1-14	26						105	205	195	276	201	60	1068
Libby, McNeill and Libby	20.9 R	1-14	22	104					314	289	337	379	259	180	1884
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.6														
--SANTA FE RAILROAD BRIDGE--	33.4														
Oakdale Irrigation District b (Crawford Pump)	37.7 L	1-14						32	125	95	150	171	109		a 682
Oakdale Irrigation District b (Brady Pump)	39.1 L	1-12							151	142	140	211	78	62	784
--OAKDALE-STOCKTON HIGHWAY BRIDGE--	41.2														
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	41.2														
--GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0														
--KNIGHTS FERRY BRIDGE--	54.5														
STANISLAUS RIVER															
Total			1822	437	31	29	0	893	5979	6904	8885	9223	8588	5766	48560
Average cubic feet per second			30	7	1	0	0	15	100	112	149	150	140	97	67
Monthly use in percent of seasonal			3.7	0.9	0.1	0.1	0	1.8	12.3	14.2	18.3	19.0	17.7	11.9	

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

b Oakdale Irrigation District for season of 1968 maintained plants at miles 37.7L and 39.1L to supplement gravity supply.

TABLE B-5 (Cont.)

DIVERSIONS - TUOLUMNE RIVER
October 1967 through September 1968

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
E. T. Mape	1.3 R	2-14	247	44	14	12		110	628	913	1030	1190	1320	643	6151
J. V. Steenstrup Estate	1.9 L	a 3-12						68	609	505	431	590	98		2301
J. V. Steenstrup Estate	2.9 L	1-10 1-12						109	171	280	218	382	93	32	1285
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY (SHILOH BRIDGE)--	3.35														
Bancroft Fruit Farms	5.0 R	1-10	13	3					50	52	44	55	55	22	294
Della Battestin	5.9 L	1-16	24						124	912	1090	858	682	387	4077
Western Farms	6.3 L	1-16						49	248	133	181	134			745
Eugene Boone, Galen Hartwich, and Ted Gonzales	7.1 R	1-10	1						91	60	54	98	62	63	429
Elmer Hyer b	8.4 R	1-10	5						7	43	41	47	29	9	181
James A. McCleskey	9.4 L	1-16	6		3	1		2	443	1350	63	678	93	316	2955
James A. McCleskey	9.7 R	1-16				1			141	112	119	139	162		674
Homer Couchman	10.2 R	1-14	67						206	169	170	164	170	106	1052
--CARPENTER ROAD BRIDGE--	12.9														
--U. S. HIGHWAY 99 FREEWAY BRIDGE--	15.55														
--SEVENTH STREET BRIDGE--	15.75														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8														
--U. S. HIGHWAY 99 BRIDGE--	16.05														
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.05														
--DRY CREEK--	16.5 R														
--EAST MODESTO BRIDGE--	19.3														
Jack Gardella	20.3 R	1-10	19	12			5	10	37	48	61	67	51	37	347
--SANTA FE RAILROAD BRIDGE--	21.6														
--SANTA FE ROAD BRIDGE--	21.65														
--GEER AVENUE BRIDGE--	26.0														
Michel Investment Company	28.8 R	1- 8	18						63	83	87	109	82	22	464
Firpo Ranch	30.2 L	1-10	32		1		1		65	101	17	54	64	53	388
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5														
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.55														
Iva M. Ketcham	39.4 R	1- 8	36						62	61	111	132	142	73	617
Westley N. Sawyer	39.8 L	1- 8	34							47	40	117	91	107	436
--ROBERTS FERRY BRIDGE--	39.9														
Westley N. Sawyer	40.8 L	1-14	37		19				43	89	117	152	104	77	638
Curtner Zanker	45.7 L	1-10							1	99	75	132	55	116	478
Dolling Brothers	46.3 R	1- 8							51	112	92	106	123	90	574
--STATE HIGHWAY 132 BRIDGE--	47.4														
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5														
TUOLUMNE RIVER															
Total			539	59	37	14	6	348	3040	5169	4041	5204	3476	2153	24090
Average cubic feet per second			9	1	1	0	0	6	51	83	68	85	57	36	33
Monthly use in percent of seasonal			2.2	0.2	0.2	0.1	0	1.4	12.6	21.5	16.8	21.6	14.4	9.0	

a One 12-inch unit was installed in 1968.

b Formerly listed as Beth Wooten.

TABLE B-5 (Cont.)

DIVERSIONS - DRY CREEK
October 1967 through September 1968

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--MODESTO-EMPIRE TRACTION COMPANY RAILROAD BRIDGE--	0.7														
--STATE HIGHWAY 132 BRIDGE (YOSEMITE BOULEVARD)--	0.8														
--LA LOMA BRIDGE--	1.2														
--EL VISTA AVENUE BRIDGE--	2.9														
--GAGING STATION - DRY CREEK NEAR MODESTO--	5.4 L														
--CLAUS ROAD BRIDGE--	5.4														
--SANTA FE RAILROAD BRIDGE--	6.4														
--CHURCH STREET BRIDGE--	7.2														
--WELLSFORD ROAD BRIDGE--	8.7														
--ALBERS ROAD BRIDGE--	11.0														
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1														
Edward Johnson	12.6 R	1- 6									2	57	65	10	134
Edward Johnson	12.7 R	1- 6										35	10	3	48
Joe Fagundes	14.7 R	1-10	52	31				1	72	115	117	129	134	100	751
--OAKDALE-WATERFORD HIGHWAY BRIDGE--	17.4														
DRY CREEK															
Total			52	31	0	0	0	1	72	115	119	221	209	113	933
Average cubic feet per second			1	1	0	0	0	0	1	2	2	4	3	2	1
Monthly use in percent of seasonal			5.6	3.3	0	0	0	0	7.7	12.4	12.8	23.7	22.4	12.1	

TABLE B-5 (Cont.)

DIVERSIONS - MERCED RIVER
October 1967 through September 1968

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--HILLS FERRY BRIDGE--	1.1														
Stevinson Water District	1.7 R	1-20						223	115	183	259	561	4	10	1355
Stevinson Water District	3.3 L	1-20	168						694	436	443	337	448	266	2792
Stevinson Water District	3.8 R	1-18	58						645	441	589	568	511	442	3254
Milton Gordon	4.3 L	1-16	32			3	1		8	83	72	61	56	48	364
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6														
Maria DeAngelis	5.8 L	1-12	31						25	41	82	52	52	99	382
Stevinson Water District	6.1 L	1-20	44			84	159		695	363	473	453	260	260	2791
Stevinson Water District	7.7 L	1-20	3					180	419	127	641	624	193	96	2283
Manuel Clemintino	8.5 L	1-12								14	25	96	45	59	239
Manuel Clemintino	8.9 L	1-12	7						142	70	69	26	95	102	511
Samuel B. McCullagh	9.4 L	1- 8	44					105	110	35	158	143	273	209	1077
Mrs. J. R. Jacinto	9.6 L	1-12						118	46		153		117	127	561
Mrs. J. B. Silva, E. and J. Gallo Winery Ranch, L. Alves and A. Mattos	10.35L	1-10	37	139	271	3	2	82	161	158	340	361	174	176	1904
Manuel Freitas	10.9 L	1-12	38					21	68	82	105	131	79	93	617
R. E. Prusso and John Vierra	10.9 L	1- 8 1-12	41						154	94	97	179	51	133	749
E. and J. Gallo Winery Ranch	11.6 L	1-18		190	272			209	55	321	396	666	48		2157
--MILLIKEN BRIDGE--	11.65														
Anthony L. Calderia	12.5 R	1-12	4												4
E. and J. Gallo Winery Ranch	12.85L	1-12	1	99	63			18	34		217	202	55	32	721
J. M. Souza	14.5 L	1-10							65	50	33	85	42	59	334
E. and J. Gallo Winery Ranch	16.5 L	1-14		1					39		25	55			120
J. E. Gallo	20.4 L	1- 8		56				62	41	56	130	171	164		680
--U. S. HIGHWAY 99 BRIDGE--	21.04														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.05														
Gallo Cattle Company	22.2 R	1- 8 1-16		47			21	49	103	43	382	381	164	176	1366
Gallo Cattle Company	22.8 R	1-12 1-15		105					102	81	153	151	46	12	650
Merced River Farms Association	26.3 R	1- 8							51	31	74	82	22	16	276
--SANTA FE RAILROAD BRIDGE--	27.05														
W. C Magneson	27.5 R	1-12	77						34	52	89	90	85	93	520
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.55														
--CRESSEY BRIDGE--	27.55														
Manuel Silva	29.9 R	1- 6 1-10							62	35		35	27	27	186
Manuel Silva	30.95R	1-12							33	117		65	67	41	323
Rancho Con Valor	31.1 L	1- 8 1-12	46					41	4	37	24	29	33	56	270
Manuel Silva	31.4 R							NO DIVERSION							
P. Hilarides	32.2 L	1-12	7									90	29	56	182
--SHAFFER BRIDGE--	32.5														
Harry P. Schmidt and Sons	33.1 R	1-10							19	76	55	124	107	25	406
W. F. Bettencourt, P. Hilarides, and Cowel Lime and Cement Co.	36.9 L	Gravity	956	314	201	139	53	70	740	1510	1680	1460	1190	583	8896
Amsterdam Orchards Incorporated	39.1 L	1-14						122	46		17	99	44		328
Ratzlaff Brothers	40.2 L	1- 2 1- 4	1					1	26	29	39	57	25	52	230
--COX FERRY BRIDGE--	42.1														
Cowel Ditch	45.3 R	Gravity	3010	1670	1460	650			1880	2870	3090	4120	3150	1610	23510
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2														
Jorgenson Ditch	46.3	Gravity	1080	522	604	372	447	100	2130	1400	1470	1250	1260	1230	11870
--SNELLING BRIDGE--	46.4														
Cook and Dale Ditch	47.0 R	Gravity	938	212	143	112	3	117	1250	1580	1660	1200	987	667	8869
Ruddle Ditch	47.9 R	Gravity	2570	2140	1940	1900	1510	1190	2150	2560	2540	2870	2840	2560	26770
Canevaro Ditch	50.0 R	Gravity	140	166	184	83	139	247	298	508	600	681	641	269	3956
MERCED RIVER															
Total			9333	5661	5138	3346	2335	2955	12440	13480	16180	17560	13380	9684	111500
Average cubic feet per second			152	95	84	54	41	48	209	219	272	286	218	163	154
Monthly use in percent of seasonal			8.4	5.1	4.6	3.0	2.1	2.6	11.2	12.1	14.5	15.7	12.0	8.7	

TABLE B-5 (Cont.)

DIVERSIONS - TULE RIVER
October 1967 through September 1968

WATER USER	MILE AND BANK BELOW SUCCESS DAM	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--SUCCESS DAM--	0.0														
--GAGING STATION - TULE RIVER BELOW SUCCESS DAM--	0.35														
Campbell Moreland Ditch	2.4 L	Gravity	734	228			600	494	432	560	651	568	502	509	5278
--PORTER SLOUGH--	2.4 R														
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	a(2.4)														
--PIONEER SPILL--	a(3.7R)														
Porter Slough Ditch	a(4.5R)	Gravity	764	5											769
--NEWCOMB AVENUE BRIDGE--	a(6.1)														
Vandalia Ditch	3.1 L	Gravity	154			131	250	70	21	117	243	278	228	127	1619
--SANTA FE RAILROAD BRIDGE--	5.1														
Poplar Ditch	5.8 L	Gravity	4003	38	2247	1341	1322	1314		584	2624	3410	2621	7	19510
--MAIN STREET BRIDGE--	5.9														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0														
Hubbs-Miner Ditch	6.4 R	Gravity	547				19	170	150	162	1028	983	349	21	3429
--STATE HIGHWAY 65 BRIDGE--	6.6														
Rhodes-Fine Ditch	8.4 L	Gravity						NO DIVERSION							
--OLIVE AVENUE BRIDGE--	9.9														
--FRIANT-KERN CANAL CROSSING--	10.5														
Woods-Central Ditch	11.0 L	Gravity			1523	2047	1341				1815	5865	2467		15060
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.8														
--OTTLE BRIDGE--	14.4														
TULE RIVER															
Total			6202	271	3770	3519	3532	2048	603	1423	6361	11100	6167	664	45660
Average cubic feet per second			101	5	61	57	61	33	10	23	107	181	100	11	63
Monthly use in percent of seasonal			13.6	0.6	8.3	7.7	7.7	4.5	1.3	3.1	13.9	24.3	13.5	1.5	

Records furnished by the Tule River Association. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Figure in parentheses indicates distance along Porter Slough from Tule River.

TABLE 8-6

DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
October 1967 through September 1968

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	132301	52266	26598	51316	140785	61422	51278	69810	110676	109870	110181	60575	977078	Not Available	
Average cubic feet per second	2152	878	433	835	2448	999	862	1135	1860	1787	1792	1018	1346		
Monthly use in percent of seasonal	13.5	5.3	2.7	5.3	14.4	6.3	5.3	7.1	11.4	11.2	11.3	6.2			
Madera Canal															
Total acre-feet diverted	24249	7349	0	0	14759	8850	0	8356	43432	38420	22461	1740	169616	Not Available	
Average cubic feet per second	394	124	0	0	257	144	0	136	730	625	365	29	234		
Monthly use in percent of seasonal	14.3	4.3	0	0	8.7	5.2	0	4.9	25.6	22.7	13.3	1.0			
Merced Irrigation District				Merced River											
Main Canal	40590	5276	2642			32633	73743	83087	91312	92032	76240	56712	b 554267	c 101801	6994
Northside Canal	1920	161	157	101	14	387	2610	4030	3929	4399	4040	3308	25056	c 4452	
Total acre-feet delivered	42510	5437	2799	101	14	33020	76353	87117	95241	96431	80280	60020	579323		
Average cubic feet per second	691	91	46	2	0	537	1283	1417	1601	1568	1306	1009	798		
Monthly use in percent of seasonal	7.3	0.9	0.5	0	0	5.7	13.2	15.0	16.4	16.7	13.9	10.4			
Turlock Irrigation District				Tuolumne River											
Total acre-feet diverted	29000	258	151	132	15890	19750	76220	79750	68430	70750	80980	40960	d 482271	e 172849	
Average cubic feet per second	472	4	2	2	276	321	1281	1297	1150	1151	1317	688	664		
Monthly use in percent of seasonal	6.0	0.1	0	0	3.3	4.1	15.8	16.5	14.2	14.7	16.8	8.5			
Modesto Irrigation District															
Total acre-feet diverted	35151	38	29	27	11632	16209	37068	38238	33508	38798	33193	16171	f 260062	g 64159	420
Average cubic feet per second	572	1	0	0	202	264	623	622	563	631	540	272	358		
Monthly use in percent of seasonal	13.5	0	0	0	4.5	6.2	14.3	14.7	12.9	14.9	12.8	6.2			
Waterford Irrigation District															
Total acre-feet diverted	3778	0	0	0	0	641	5089	4105	4321	5195	4384	3818	h 31331	i 7166	
Average cubic feet per second	61	0	0	0	0	10	86	67	73	84	71	64	43		
Monthly use in percent of seasonal	12.1	0	0	0	0	2.0	16.2	13.1	13.8	16.6	14.0	12.2			
Oakdale Irrigation District				Stanislaus River											
Northside Canal	10121	0	0	0	0	207	16339	20203	16874	15983	15913	11929	107569	j 23608	
Southside Canal	21415	0	0	0	0	3257	19541	28015	24689	24414	24564	19024	164919	k 34981	
Total acre-feet diverted	31536	0	0	0	0	3464	35880	48218	41563	40397	40477	30953	272488	m 58589	
Average cubic feet per second	513	0	0	0	0	56	603	784	699	657	658	520	375		
Monthly use in percent of seasonal	11.6	0	0	0	0	1.3	13.2	17.7	15.2	14.8	14.8	11.4			
South San Joaquin Irrigation District															
Total acre-feet diverted	16918	826	0	5365	0	1139	45361	40528	37291	38650	46591	22872	255541	n 61587	77
Average cubic feet per second	275	14	0	87	0	19	762	659	627	629	758	384	352		
Monthly use in percent of seasonal	6.6	0.3	0	2.1	0	0.4	17.8	15.9	14.6	15.1	18.2	9.0			

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 200,213 acre-feet of water was pumped from wells
c Of this acreage, 3,413 were double cropped. Does not include an undetermined amount of riparian water users acreage.
d An additional 154,555 acre-feet of water was pumped from wells.
e Of this acreage, 24,464 were double cropped.
f An additional 92,367 acre-feet of water was pumped from wells
g Of this acreage, 8,960 were double cropped.
h An additional 2,920 acre-feet of water was pumped from wells.
i Of this acreage, none were double cropped.
j Of this acreage, 645 were double cropped.
k Of this acreage, 208 were double cropped.
m This acreage also received 43,960 acre-feet of water from wells and controlled drainage.
n This acreage also received 32,339 acre-feet of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 3,392 were double cropped. Includes 1,207 acres served by subirrigation.

TABLE B-7

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1967 through September 1968

WATER USER	MILE POST FROM CANAL HEAD FROM	TO	MONTHLY DELIVERIES IN ACRE-FEET OCT.	NOV	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT	TOTAL
							Delta-Mendota Canal								
State of California (South Bay Aqueduct)	3.54		5439	2340	0	0	0	0	0	0	0	0	0	0	7779
Plain View Water District	4.22	20.96	853	142	7	56	55	641	2313	3333	3599	4316	3053	1767	20135
Carnazzo Land Company, Incorporated	6.96		1	1	1	1	0	1	1	1	1	1	1	1	11
Gordon H. Ball, Incorporated	8.52		0	0	0	0	0	12	7	0	36	103	17	0	175
West Side Irrigation District	14.79		0	0	0	0	0	0	978	1399	500	1237	626	260	5000
Wunderlich Corporation	16.25		5	0	0	0	0	0	0	0	0	0	0	0	5
Hospital Water District	18.06	30.96	971	171	8	112	8	679	3743	3824	3993	4968	2931	1918	23326
Banta-Carbona Irrigation District	20.42		20	65	0	0	0	8	1493	2465	3596	5292	2831	0	15770
Fredrickson & Watson Construction Company	21.48	39.78	15	9	4	0	0	0	0	0	0	0	0	0	28
West Stanislaus Irrigation District	31.31		0	0	0	0	0	101	7376	5404	7638	11557	7101	3082	42259
Kern Canon Water District	31.31	35.08	89	2	197	126	11	216	1385	1011	1425	1762	1438	755	8417
Del Puerto Water District	35.73	42.51	417	95	3	88	80	956	2329	2378	3574	3262	2346	1502	17030
Western Contracting Corporation	41.49		20	10	0	0	0	0	0	0	0	0	0	0	30
Salado Water District	42.10	46.83	158	32	0	1	2	659	2006	1177	1402	1932	1412	411	9192
Patterson Water District	42.51		56	0	0	0	7	96	1907	801	1366	2386	1147	191	7957
Sunflower Water District	44.23	52.02	186	130	0	0	131	857	3038	1716	2466	2968	2291	1376	15159
Orestimba Water District	46.83	51.41	30	182	0	0	1	549	2907	2069	2685	3362	1874	306	13965
Foothill Water District	51.65	57.46	244	69	0	0	259	400	1475	1600	1325	2302	1888	951	10513
Davis Water District	53.64	56.82	36	46	0	0	175	193	596	669	751	717	400	288	3871
Mustang Water District	56.80	62.76	95	0	1	0	32	951	1210	1266	1381	1581	1518	722	8757
Central California Irrigation District	58.26	76.05	1681	0	0	18	0	3405	9764	11460	11148	11746	11074	2803	63099
Quinto Water District	64.32	67.55	236	3	1	0	0	339	1307	1553	1526	1684	1286	662	8597
Romero Water District	68.03		66	36	0	0	0	96	401	566	643	504	578	424	3314
San Luis Water District	68.99	90.53	2734	2239	1548	1563	5288	11233	9094	10548	13345	13781	8354	4805	84532
San Luis Water District, Municipal and Industrial	69.21	87.48	62	7	0	1	0	4	12	12	20	24	20	21	183
Grasslands Water District	70.00		9414	2181	0	0	0	0	0	0	0	0	0	2418	14013
Sam Hamburg Farms	90.53		4	1	1	2	2	1	3	3	4	5	4	4	34
Panoche Water District	93.25	96.70	2436	3892	1719	1268	10869	6864	7238	7434	10193	10693	7912	3014	73532
Eagle Field Water District	93.27	94.57	61	100	0	49	612	79	145	341	598	607	665	182	3439
Ora Loma Water District	95.50	86.62	0	0	0	0	0	0	766	1202	1229	1244	1095	128	5664
West Side Golf Club	95.95		14	6	4	3	5	9	13	21	21	22	20	17	159
Mercy Springs Water District	97.70	99.81	0	0	0	0	161	240	557	1202	1281	2140	1417	667	7665
Widren Water District	102.03		0	0	0	0	0	146	289	458	454	433	402	29	2211
Broadview Water District	102.95		659	210	1164	1328	1628	2150	1479	1872	3306	3077	931	609	18413
U. S. Bureau of Reclamation Construction			0	8	0	0	0	0	0	0	0	0	0	0	8
Firebaugh Canal Company	107.85	109.45	0	0	0	58	1696	0	2355	7274	8126	8461	6490	161	34621
Total			26002	11977	4658	4674	21022	30885	66187	73059	87632	102167	71122	29474	528859
Net Deliveries DMC to Mendota Pool	115.62		67690	35135	2438	12165	48948	78789	105902	115946	148342	173964	150294	92148	1031761
Net Deliveries DMC to O'Neill Forebay	69.30		190	9163	19515	17565	27749	83067	39528	58209	2326	a-1703	10968	95668	362245
								Madera Canal							
Madera Irrigation District	6.10	32.2	13861	8237	0	0	8735	6050	0	6542	27382	23138	7890	0	101835
Adobe Ranch	20.6		206	94	0	0	0	0	0	0	0	24	190	86	600
Chowchilla Water District	35.9		10907	0	0	0	4510	2985	0	0	13543	15479	16346	2222	65992
Total			24974	8331	0	0	13245	9035	0	6542	40925	38641	24426	2308	168427

TABLE 8-7 (Cont.)

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1967 through September 1968

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
								Millerton Lake							
Fresno County Water District #18			7	4	2	2	1	2	9	11	16	17	16	13	100
County of Madera			1	1	0	1	0	0	1	1	1	2	1	1	10
Millerton Lake Development Corporation			6	4	1	0	0	0	0	0	0	0	0	0	11
Total			14	9	3	3	1	2	10	12	17	19	17	14	121
								Friant-Kern Canal							
Garfield Water District	7.53		181	185	206	48	17	25	409	588	489	504	290	228	3170
Dog Creek Water District	14.8		0	0	0	0	0	0	0	0	0	0	0	0	0
International Water District	14.9		156	0	0	0	0	0	43	51	178	204	226	226	1084
Round Mountain Water District	20.85	21.33	27	16	0	0	0	0	0	0	0	0	0	0	43
Round Mountain Ranch	20.22		0	0	0	0	0	0	0	0	0	0	24	42	66
Trimmer Springs Water District	27.56		63	12	0	0	0	0	0	0	0	0	0	0	75
Consolidated Irrigation District	28.50		16770	0	0	0	9000	0	0	0	0	0	0	0	25770
Last Chance Water Ditch Company	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Laguna Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Corcoran Irrigation District	28.50		0	0	0	4231	7573	00	0	0	0	0	0	0	11804
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	2501	0	0	0	0	0	0	0	2501
Alta Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Fresno Irrigation District	28.50		b19659	1692	3074	545	5344	0	0	20478	19151	b2388	b7195	b 1609	b 81135
Murphy Slough Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings River Water Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
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	942	0	5000	0	15850	0	0	0	0	0	0	0	21792
Orange Cove Irrigation District	35.87	53.31	3326	1434	0	0	0	138	2823	4384	5520	6845	6060	4633	35163
City of Orange Cove	43.44		27	16	11	6	0	8	30	35	46	53	42	33	307
Stone Corral Irrigation District	56.90	64.40	583	177	6	0	46	399	787	930	1426	1714	1571	833	8472
Ivanhoe Irrigation District	65.04	68.13	1837	196	0	0	0	46	293	175	623	1109	1238	2061	7578
Tulare Irrigation District	68.14	71.29	21973	9993	3136	13182	29594	478	0	0	8987	14839	0	0	102182
Lakeside Irrigation Water District	69.42		0	0	171	10983	14148	0	0	0	0	0	0	0	25302
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	1811	690	14	0	159	319	1661	1686	1325	1260	1256	1370	11551
Lewis Creek Water District	81.54		87	65	0	0	0	17	33	184	156	188	197	131	1058
Lindsay-Strathmore Irrigation District	85.56		2890	1365	60	63	63	171	2139	3851	4439	5175	4903	4204	c 29323
Lindmore Irrigation District	86.17	91.12	3902	1730	0	0	992	1426	3920	3913	4026	3792	4608	4902	33211
Porterville Irrigation District	93.93	98.62	260	115	16	17	565	1777	1897	1801	2184	2341	2481	1761	15215
Lower Tule Irrigation District	95.67	98.62	19077	12895	3269	10284	24699	9026	0	270	16945	16124	17584	5254	135427
Tea Pot Dome	99.35		496	242	0	0	5	13	425	626	741	891	843	674	4956
Saucelito Irrigation District	98.62	107.37	2061	474	0	315	2333	2147	1499	1695	2900	3178	3082	2412	22096
Cloer Community Service District	101.60		8	8	0	0	6	0	0	0	0	0	0	0	22
Terra Bella Irrigation District	102.65		1668	764	4	0	0	25	1257	2796	3100	3711	3509	2545	19379
Pixley Irrigation District	102.69		2947	2346	309	1232	2442	0	0	0	0	0	0	0	9276
Delano-Earlimart Irrigation District	109.48	118.45	8212	3854	799	760	6561	17793	13233	10830	16078	15598	12809	8846	115373
Alpaugh Irrigation District	112.96		700	0	0	0	700	0	0	0	0	0	0	0	1400
Southern San Joaquin Municipal Utility District	117.44	127.97	5984	2666	470	311	5784	14875	11809	10411	12921	11518	13440	7549	97738
Rag Gulch Water District	117.96		710	145	0	0	506	0	0	0	0	0	0	0	1361
Kern County Water Agency	130.03		d 1238	0	0	0	0	0	0	0	0	0	0	0	1238
Shafter-Wasco Irrigation District	134.42	137.17	2485	1313	133	623	2259	6212	3457	4963	7383	7341	6579	3205	45953
Pacific Gas & Electric Company	150.83		0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale Rio Bravo Water Storage District	151.0		0	0	0	0	0	0	0	0	0	0	0	0	0
Buena Vista Water Storage District	151.80		0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Water Storage District	151.80		8446	9203	7472	6484	7182	6879	5355	781	0	8392	8103	5282	73579
Total			128526	51596	24150	49084	138329	61774	51070	70448	108618	107165	96040	57800	944600

Data furnished by the 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 include operational spill.

a Net delivery of -1703 acre-feet results from water being taken from O'Neill Forebay to Delta-Mendota Canal for delivery downstream.
b Includes deliveries to City of Fresno
c Includes water transported from Wutchumna Ditch.
d Includes deliveries to Gilbreath Brothers Duck Club.

TABLE B-8

DELIVERIES FROM CALIFORNIA AQUEDUCT[a]
October 1967 through September 1968

WATER USER	MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
					North San Joaquin Division								
South Bay Aqueduct	3110	3268	6339	7991	3539	6692	9667	10291	10814	11986	11792	9444	94933
Oak Flat Water District	0	0	0	0	0	113	572	532	925	615	272	55	3084
Total	3110	3268	6339	7991	3539	6805	10239	10823	11739	12601	12064	9499	98017
					O'Neill Forebay								
San Luis Water District Total	45	6	6	7	6	292	155	331	523	367	292	45	2075
					San Luis Division								
San Luis Water District	0	0	0	0	0	0	0	0	86	30	0	0	116
Panoche Water District	0	0	0	0	0	126	164	353	2444	4049	2731	275	10142
Westlands Water District	0	121	974	1552	2666	6800	11955	17147	22026	29537	23323	14362	130463
Industrial Pipelines Intermountain, Inc.	0	0	0	0	0	0	79	27	7	0	0	0	113
Total	0	121	974	1552	2666	6926	12198	17527	24563	33616	26054	14637	140834
					South San Joaquin Division								
Tulare Lake Basin Water Storage District	0	0	0	0	0	0	0	0	0	0	0	3357	3357
Dudley Ridge Water District	0	0	0	0	2982	4036	1287	1692	4759	5607	4481	164	25008
Kern County Water Agency	0	0	0	56	745	3357	1235	4848	10281	13921	10864	3604	48911
Total	0	0	0	56	3727	7393	2522	6540	15040	19528	15345	7125	77276
					Coastal Branch								
Devils Den Water District	0	0	0	0	872	1088	400	640	1300	1342	1019	0	6661
Kern County Water Agency	0	0	0	485	4109	5818	5081	7187	12389	13053	13196	6224	67542
Total	0	0	0	485	4981	6906	5481	7827	13689	14395	14215	6224	74203
Delta Pumping Plant to California Aqueduct	6588	4544	10292	26968	2724	70895	87984	79129	16911	12720	47466	108315	474536

a Does not include operational losses or changes in storage.

TABLE B-9

IMPORTS AND EXPORTS
October 1967 through September 1968

WATER USER	IN ACRE-FEET												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
					Imports from Delta								
California Aqueduct (a)				10690	330	61540	74910	67760	6442	615	35630	104600	362500
Delta-Mendota Canal (b)	92100	54990	26300	39250	98980	201800	224100	256100	250000	291300	239900	214000	1989000
Total Import from Delta	92100	54990	26300	49940	99310	263300	299000	323900	256400	291900	275500	318600	2351000
					Exports from Tuolumne River								
City and County of San Francisco (c)	9451	4288	18823	1482	2253	14329	25341	26396	20975	21070	20414	19511	184333

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; acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

(a) Water delivered to San Luis Division including deliveries to Oak Flat Water District.
(b) Water pumped at Tracy Pumping Plant and adjusted for deliveries to South Bay Aqueduct.
(c) Includes water delivered to Lawrence Radiation Laboratory.

TABLE B-10

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	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						DRY							15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.

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

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 177 feet. U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.05	1.85	1.86	1.71	1.77	1.66	1.71	2.23	2.05	2.28	2.41	2.36	1
2	2.05	1.83	1.86	1.71	1.76	1.66	1.71	2.04	2.10	2.34	2.38	2.36	2
3	2.06	1.78	1.85	1.71	1.75	1.66	1.72	2.04	2.20	2.39	2.36	2.36	3
4	2.01	1.78	1.85	1.72	1.75	1.66	1.72	1.97	2.36	2.39	2.36	2.34	4
5	1.97	1.79	1.80	1.73	1.75	1.66	1.71	1.88	2.37	2.39	2.36	2.31	5
6	1.97	1.79	1.66	1.73	1.76	1.66	1.72	1.88	2.37	2.39	2.36	2.27	6
7	1.97	1.79	1.65	1.74	1.76	1.66	1.72	1.86	2.37	2.39	2.36	2.22	7
8	1.97	1.79	1.64	1.74	1.76	1.68	1.72	1.78	2.37	2.39	2.37	2.22	8
9	1.93	1.79	1.65	1.74	1.77	1.67	1.72	1.78	2.30	2.39	2.37	2.22	9
10	1.90	1.80	1.66	1.75	1.77	1.67	1.72	1.85	2.26	2.39	2.40	2.22	10
11	1.90	1.80	1.67	1.75	1.77	1.66	1.73	1.94	2.26	2.38	2.43	2.22	11
12	1.90	1.80	1.67	1.75	1.76	1.67	1.73	1.94	2.26	2.38	2.43	2.22	12
13	1.90	1.80	1.68	1.75	1.77	1.69	1.74	1.94	2.25	2.38	2.43	2.22	13
14	1.90	1.82	1.69	1.76	1.78	1.68	1.73	1.98	2.25	2.38	2.43	2.22	14
15	1.90	1.82	1.71	1.76	1.77	1.68	1.73	2.08	2.23	2.38	2.39	2.22	15
16	1.90	1.82	1.72	1.76	1.78	1.69	1.73	2.07	2.22	2.38	2.37	2.22	16
17	1.90	1.83	1.73	1.77	1.79	1.70	1.73	2.07	2.22	2.32	2.37	2.22	17
18	1.90	1.83	1.75	1.78	1.78	1.70	1.74	2.06	2.22	2.30	2.37	2.22	18
19	1.90	1.84	1.76	1.79	1.77	1.69	1.85	2.06	2.19	2.29	2.38	2.22	19
20	1.90	1.83	1.76	1.79	1.76	1.68	1.99	2.03	2.17	2.29	2.38	2.22	20
21	1.90	1.83	1.77	1.79	1.77	1.68	2.00	1.99	2.17	2.29	2.38	2.22	21
22	1.90	1.83	1.78	1.78	1.77	1.68	2.00	1.99	2.17	2.37	2.38	2.22	22
23	1.90	1.83	1.78	1.80	1.77	1.69	2.19	1.99	2.17	2.41	2.37	2.23	23
24	1.90	1.83	1.79	1.81	1.76	1.69	2.31	1.98	2.17	2.43	2.37	2.22	24
25	1.87	1.83	1.79	1.80	1.75	1.69	2.46	1.98	2.17	2.46	2.37	2.22	25
26	1.84	1.83	1.79	1.78	1.74	1.70	2.61	1.98	2.17	2.46	2.37	2.22	26
27	1.84	1.83	1.79	1.78	1.73	1.70	2.72	1.98	2.23	2.46	2.37	2.20	27
28	1.84	1.84		1.77	1.73	1.70	2.73	1.98	2.28	2.46	2.37	2.17	28
29	1.85	1.85	1.69	1.76					2.28	2.43	2.37	2.17	29
30	1.85	1.86	1.70	1.76		1.69	2.53	1.96	2.28	2.41	2.36	2.18	30
31	1.85		1.70	1.77		1.69		1.96		2.41	2.36		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
4-28-68	1300	2.74	7-24-68	2000	2.46						
6- 4-68	1900	2.37	8-10-68	1300	2.43						
7- 2-68	1450	2.39									

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	77200	23.8	12-11-37	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 reaservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B07575	SAN JOAQUIN RIVER ABOVE SAND SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	101.40	100.54	100.38	101.42	101.30	101.84	100.62	100.96	100.62	100.53	NF	100.87	1
2	NF	100.49	100.37	101.38	101.56	101.98	100.63	101.01	100.79	100.61	100.43	100.79	2
3	101.34	100.47	100.37	101.34	101.48	101.02	100.65	100.83	100.68	100.66	100.69	100.61	3
4	101.13	100.46	100.37	101.31	101.42	100.56	100.66	101.00	100.60	100.77	100.83	100.73	4
5	100.75	100.46	NF	101.28	101.34	100.71	100.68	100.78	100.62	100.64	101.04	100.73	5
6	100.60	100.45	NF	101.26	101.20	100.56	100.83	100.77	100.60	NF	101.01	100.66	6
7	100.58	100.45	NF	101.23	100.88	100.64	100.87	100.73	100.57	100.48	100.87	100.76	7
8	100.77	100.43	NF	101.21	100.62	100.73	100.92	100.72	100.56	100.47	100.60	100.81	8
9	100.78	100.43	NF	101.16	100.49	100.61	100.87	100.72	100.56	100.55	100.62	100.73	9
10	100.78	100.43	NF	101.15	100.45	100.58	100.97	100.68	100.67	100.67	100.64	100.63	10
11	100.64	100.42	NF	101.15	100.48	100.65	100.93	100.67	100.58	100.71	100.57	100.46	11
12	100.64	100.42	NF	101.40	100.54	100.62	100.74	100.75	100.44	100.57	100.66	NF	12
13	100.68	100.42	NF	101.47	100.69	100.60	100.67	100.71	100.52	100.58	100.63	NF	13
14	100.72	100.39	NF	101.41	100.69	100.62	100.86	100.82	100.69	100.11	100.74	100.74	14
15	100.76	100.40	NF	101.38	100.56	100.66	100.97	100.76	100.71	100.39	100.61	100.81	15
16	100.91	100.39	NF	101.33	100.64	100.78	101.05	100.69	100.70	NF	100.47	100.80	16
17	100.96	100.39	NF	101.28	100.71E	100.93	100.84	100.69	100.77	NF	100.37	100.76	17
18	100.99	100.39	101.89	101.23	100.70E	100.81	100.68	100.74	100.66	NF	100.52	100.75	18
19	101.24	100.39	103.12	101.18	100.70E	100.80	100.53	100.79	100.48	NF	100.59	100.80	19
20	101.29	100.40	103.12	101.18	100.70E	100.78	100.54	100.64	NF	NF	100.57	100.73	20
21	101.29	100.39	102.80	101.39	100.70E	100.58	100.71	100.59	NF	NF	100.54	100.69	21
22	101.39	100.39	102.48	101.46	100.70E	100.52	100.97	100.64	NF	NF	100.48	100.76	22
23	101.40	100.38	102.24	101.47	101.22	100.54	100.84	100.54	NF	NF	NF	100.83	23
24	101.36	100.37	102.04	101.46	101.58	100.88	100.61	100.37	NF	NF	NF	100.66	24
25	101.41	100.37	101.87	101.54	101.87	100.85	100.68	100.61	NF	NF	NF	100.62	25
26	101.44	100.37	101.79	101.42	101.46	100.86	100.71	100.63	NF	NF	NF	100.60	26
27	101.30	NF	101.73	101.46	101.22	100.87	100.61	100.65	NF	NF	NF	100.54	27
28	101.13	NF	101.65	101.50	101.12	100.64	100.61	100.72	NF	NF	NF	100.80	28
29	100.93	100.37	101.58	101.55	101.02	100.53	100.68	100.63	NF	100.72	100.52	100.75	29
30	100.74	100.37	101.51	101.42		100.53	100.78	100.76	100.51	100.78	100.58	100.60	30
31	100.58		101.46	101.27		100.52		100.78		100.63	100.77		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-25-67	2300	101.52	1-29-68	1545	101.58						
12-19-67	1815	103.16	2- 2-68	1345	101.61						
1-25-68	2000	101.56	3- 1-68	2100	102.57						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 06 36	120 35 24	NE31 9S 13E		110.51	4-26-67	OCT 61-SEP 62	OCT 62-DATE	1961		0.00	USCGS

Station located 5 miles northwest of Santa Rita Bridge and 5 miles west of El Nido on left bank of the San Joaquin River .5 mile above confluence with Eastside Bypass.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	63.62	62.15	63.63	62.49	62.35	62.07	61.60	62.00	61.45	61.31	61.26	61.67	1
2	63.66	62.11	63.59	62.46	62.28	62.53	61.65	61.88	61.39	61.34	61.30	61.67	2
3	63.68	62.08	63.51	62.44	62.25	62.86	62.34	61.76	61.37	61.47	61.34	61.71	3
4	63.77	62.04	63.47	62.29	62.40	62.21	62.80	61.74	61.36	61.42	61.29	61.62	4
5	63.66	61.99	63.43	62.18	62.30	61.98	62.66	61.70	61.41	61.28	61.38	61.55	5
6	63.61	61.98	63.42	62.13	62.20	61.85	62.19	61.72	61.38	61.21	61.61	61.57	6
7	63.49	62.00	63.07	62.14	62.13	61.78	61.78	61.73	61.36	61.16	61.79	61.68	7
8	63.35	62.00	63.21	62.53	62.05	61.82	61.71	61.69	61.37	61.14	61.56	61.71	8
9	63.40	61.98	63.20	62.91	61.87	62.13	61.69	61.58	61.36	61.24	61.38	61.75	9
10	63.32	61.97	63.19	62.92	61.75	62.38	61.58	61.53	61.38	61.18	61.34	61.89	10
11	63.18	61.95	63.02	62.88	61.70	62.87	61.56	61.78	61.39	61.24	61.29	62.00	11
12	63.12	61.92	62.45	62.81	61.67	62.97	61.53	62.29	61.33	61.28	61.30	62.16	12
13	63.04	61.88	62.31	62.62	61.70	63.03	61.56	62.98	61.55	61.28	61.33	62.20	13
14	63.12	61.87	62.28	62.48	61.73	63.11	61.60	62.92	61.39	61.30	61.35	62.19	14
15	63.05	61.87	62.25	62.48	61.70	62.66	61.57	62.71	61.37	61.30	61.46	62.20	15
16	63.06	61.82	62.18	62.48	61.71	62.81	61.60	62.46	61.43	61.32	61.60	62.24	16
17	63.04	61.96	62.13	62.40	61.79	62.91	61.56	62.36	61.47	61.29	61.78	62.28	17
18	62.95	61.96	62.12	62.32	62.00	63.10	61.53	62.30	61.37	61.31	61.81	62.28	18
19	62.90	62.04	62.18	62.31	63.10	63.15	61.56	62.18	61.47	61.33	61.88	62.09	19
20	62.87	62.14	62.99	62.26	63.41	63.04	61.43	62.07	61.47	61.31	61.77	62.06	20
21	62.85	62.24	63.39	62.18	63.37	62.88	61.68	62.17	61.37	61.34	61.70	61.97	21
22	62.75	62.54	63.32	62.14	63.50	62.52	61.88	62.19	61.33	61.36	61.70	61.89	22
23	62.64	62.86	63.16	62.18	63.50	62.30	62.05	62.11	61.29	61.42	61.75	61.92	23
24	62.81	63.07	62.99	62.25	63.18	62.18	61.88	62.06	61.32	61.32	61.75	61.93	24
25	62.70	63.33	62.85	62.24	62.87	61.75	61.68	62.05	61.30	61.33	61.74	61.81	25
26	62.62	63.46	62.74	62.19	62.55	61.63	61.55	62.09	61.30	61.30	61.80	61.85	26
27	62.48	63.45	62.67	62.17	62.37	61.60	61.80	62.06	61.27	61.33	61.78	61.75	27
28	62.36	63.42	62.64	62.12	62.22	61.57	61.98	62.01	61.29	61.39	61.68	61.55	28
29	62.30	63.40	62.60	62.13	62.13	61.58	62.13	61.84	61.23	61.41	61.68	61.47	29
30	62.35	63.50	62.56	62.17		61.54	62.17	61.58	61.32	61.44	61.66	61.54	30
31	62.23		62.53	62.31		61.54		61.50		61.33	61.73		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10- 4-67	2100	63.79	2-22-68	2000	63.64						
12- 1-67	2015	63.66									
12-21-67	1200	63.41									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	13300	75.00	4-26-67	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

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

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	56.52	55.26	56.81	55.72	55.78	55.97	55.73	55.74	55.11	55.08	55.39	55.62	1
2	56.62	55.25	56.92	55.72	55.75	55.97	55.96	55.62	55.12E	55.10	55.36	55.71	2
3	56.85	55.29	56.92	55.69	55.75	56.44	56.37	55.58	55.16E	54.96	55.37	55.64	3
4	57.01	55.26	56.91	55.63	55.86	56.04	56.79	55.60	55.16E	54.88	55.21	55.53	4
5	56.91	55.24	56.86	55.56	55.86	55.90	56.69	55.62	55.15E	54.86	55.16	55.44	5
6	56.76	55.22	56.83	55.50	55.78	55.89	56.35	55.75	55.19E	54.85	55.37	55.42	6
7	56.55	55.23	56.63	55.48	55.68	55.83	56.11	55.68	55.15E	54.91	55.37	55.45	7
8	56.34	55.14	56.66	55.80	51.89	55.89	56.03	55.54	55.15E	54.93	55.29	55.50	8
9	56.35	55.14	56.69	56.30	55.63	55.97	55.91	55.46	55.26E	54.93	55.14	55.53	9
10	56.22	55.22	56.66	56.52	55.57	56.29	55.76	55.46	55.36E	55.01	55.09	55.74	10
11	56.09	55.24	56.57	56.53	55.52	56.49	55.61	55.50	55.32E	55.16	55.16	55.74	11
12	56.03	55.23	56.19	56.51	55.51	56.59	55.61	55.79	55.28E	55.23	55.26	55.75	12
13	55.84	55.20	56.06	56.36	55.53	56.67	55.53	56.20	55.25E	55.09	55.27	55.70	13
14	55.82	55.18	56.00	56.22	55.57	56.75	55.64	56.35	55.21E	55.17	55.40	55.70	14
15	55.78	55.13	55.99	56.20	55.54	56.69	55.73	56.34	55.21E	55.21	55.40	55.70	15
16	55.87	55.10	55.89	56.21	55.55	56.74	55.82	56.36	55.21E	55.09	55.52	55.63	16
17	55.94	55.19	55.80	56.15	55.61	56.93	55.74	56.12	55.27E	54.93	55.59	55.74	17
18	55.88	55.21	55.75	56.03	55.78	57.02	55.79	55.88	55.20E	54.86	55.60	55.74	18
19	55.78	55.30	55.79	55.94	56.45	57.10	55.83	55.76	55.17E	54.85	55.47	55.67	19
20	55.74	55.43	56.12	55.91	56.86	56.93	55.75	55.89	55.17	54.85	55.64	55.60	20
21	55.75	55.74	56.61	55.86	56.88	56.67	55.78	55.79	55.13	54.89	55.59	55.49	21
22	55.83	55.79	56.59	55.81	56.91	56.44	55.89	55.81	55.09	54.93	55.60	55.52	22
23	55.73	55.95	56.45	55.82	56.97	56.33	55.78	55.66	55.00	54.90	55.59	55.55	23
24	55.85	56.03	56.20	55.85	56.79	56.32	55.83	55.61	54.95	54.85	55.63	55.77	24
25	55.80	56.17	56.04	55.85	56.54	56.05	55.63	55.54	54.96	54.87	55.75	55.70	25
26	55.75	56.30	55.94	55.83	56.31	55.91	55.66	55.64	54.90	54.82	55.73	55.48	26
27	55.67	56.37	55.93	55.77	56.26	55.86	55.69	55.67	54.86	54.89	55.77	55.36	27
28	55.50	56.41	55.94	55.71	56.14	55.81	55.77	55.63	54.87	55.06	55.74	55.30	28
29	55.48	56.50	55.90	55.67	56.04	55.74	55.90	55.42	54.89	55.16	55.77	55.25	29
30	55.42	56.62	55.85	55.61		55.66	55.78	55.27	54.90	55.42	55.76	55.21	30
31	55.31		55.74	55.70		55.62		55.15		55.47	55.62		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10- 4-67	1000	57.04	3-19-68	0700	57.15						
12- 3-67	1000	56.94									
2-23-68	0245	57.00									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 18 35	120 55 45		5910a	71.14	4-6-58	MAR 37-DATE		1944	1957	-3.73	USCGS
				67.37b				1957	1959	-3.77	USCGS
			18900c	71.5	3-7-38			1959		0.00	USCGS
				67.7 d							

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Records furnished by U. S. Geological Survey. Drainage area is approximately 8,090 square miles. Flow records are published in U. S. Geological Survey report "Surface Water Records of California".

a Maximum discharge of 5,910 cfs is only for San Joaquin River channel for the period 1944 to date.
b Reflects present datum.
c During periods of high flow (above stage of approximately 61 feet) some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs. Maximum discharge of 18,900 cfs is for the combined flow of the San Joaquin River and the three channels of Mud Slough. This information taken from Department of Water Resources Bulletin No. 16, Flood Flows and Stages, 1954-56.
d Reflects present datum.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.10	5.93	7.02	7.69	7.51	6.20	6.12	6.18	6.18	6.11	6.16	5.85	1
2	6.14	5.97	7.05	7.72	8.09	6.08	6.12	6.16	6.14	6.15	6.04	5.98	2
3	6.11	6.26	7.02	7.69	8.18	6.02	6.07	6.03	6.15	6.12	6.03	5.98	3
4	6.23	6.15	7.07	7.70	8.19	5.97	5.95	6.08	6.18	6.02	5.99	5.93	4
5	6.22	6.12	7.09	7.70	7.63	6.16	5.80	6.13	6.21	6.00	6.00	6.06	5
6	6.05	6.30	7.08	7.47	7.42	6.20	5.88	6.19	6.31	6.04	6.04	5.97	6
7	6.03	7.00	7.27	7.68	9.10	6.17	5.88	6.18	6.24	6.05	5.95	5.98	7
8	5.91	7.18	7.54	8.08	9.27	6.36	5.79	6.15	6.29	6.03	6.05	6.05	8
9	5.84	7.29	7.54	7.72	9.26	6.16	5.81	6.11	6.28	5.97	6.04	5.83	9
10	5.76	6.97	7.55	7.29	9.04	6.16	5.95	6.08	6.28	5.97	6.03	5.59	10
11	5.86	6.52	7.54	7.53	7.63	6.16	6.07	6.12	6.28	6.07	6.07	5.36	11
12	5.92	6.47	7.57	7.32	6.42	6.20	6.03	6.14	6.28	6.18	6.05	5.18	12
13	5.88	6.44	7.58	6.47	6.18	6.22	6.08	6.08	6.17	6.17	6.16	5.23	13
14	5.92	6.43	7.62	6.22	6.16	6.18	6.05	6.19	6.17	6.17	6.12	5.22	14
15	5.94	6.40	7.60	6.58	6.18	6.13	6.06	6.22	6.20	6.20	6.08	5.42	15
16	6.62	6.36	7.56	7.21	6.18	6.22	6.09	6.16	6.15	6.26	6.03	5.56	16
17	7.43	6.33	7.58	7.25	6.22	6.26	6.15	6.19	6.10	6.20	5.90	5.48	17
18	8.38	6.30	7.60	7.27	6.22	6.04	5.94	6.14	6.12	6.39	5.91	5.09	18
19	8.52	6.32	7.61	7.25	6.21	6.05	6.08	6.08	6.21	6.28	5.94	5.14	19
20	8.53	6.31	7.61	6.48	6.24	6.16	6.02	6.13	6.12	6.21	5.88	5.32	20
21	8.53	6.78	7.56	6.27	6.25	6.16	6.16	6.11	6.17	6.16	5.88	5.46	21
22	8.52	6.99	7.59	6.49	6.22	6.14	6.08	5.98	6.16	6.25	5.93	5.10	22
23	8.50	6.97	7.59	7.18	6.11	6.16	5.86	6.09	6.13	6.29	5.94	5.23	23
24	8.18	6.96	7.56	7.24	5.93	6.15	5.79	6.07	6.13	6.17	5.98	5.10	24
25	8.18	6.93	7.61	7.24	6.08	6.18	5.97	6.08	6.15	6.16	5.98	5.28	25
26	8.15	6.99	7.58	7.25	6.09	6.18	5.96	6.16	6.15	6.19	5.99	5.21	26
27	8.14	7.00	7.59	6.48	6.12	6.08	5.96	6.17	6.18	6.18	6.05	5.50	27
28	8.19	6.99	7.58	6.25	6.12	5.96	5.98	6.16	6.20	6.18	6.10	5.34	28
29	7.23	7.02	7.57	6.78	6.13	5.94	6.05	6.15	6.21	6.26	6.07	5.41	29
30	6.02	6.74	7.63	7.32		6.07	6.24	6.20	6.19	6.20	5.96	5.57	30
31	5.92		7.71	7.68		6.08		6.18		6.24	5.96		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-17-67	1330	8.68	2- 8-68	1230	9.34						
10-20-67	1615	8.68	2-11-68	1515	8.83						
1-31-68	1500	10.20									

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 Exchequer powerplant and McSwain Dam. 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-10 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.48E	11.24E	11.12	12.11	12.27	10.35	10.31	9.89E	10.07	10.01	9.84	10.01	1
2	10.48E	10.29	11.34	12.18	12.29	10.40	10.42	9.89E	10.04	9.93	9.89	10.00	2
3	10.48E	10.23	11.33	12.15	12.70	10.30	10.34	9.89E	10.09	9.81	9.93	9.97	3
4	10.24	10.44	11.31	12.16	12.81	10.23	10.24	9.89E	9.98	9.84	10.00	9.94	4
5	10.35	10.42	11.36	12.15	12.76	10.13	10.21	9.96E	9.93	9.86	10.05	9.87	5
6	10.29	10.39	11.36	12.15	11.71	10.27	10.13	9.96E	9.98	9.87	10.03	9.85	6
7	10.53E	10.56	11.39	11.87	12.77	10.35	10.10	9.96E	10.03	9.81	9.98	9.95	7
8	10.48E	11.18	11.71	12.14	14.13	10.43	10.09	10.03E	10.12	9.78	9.94	9.92	8
9	10.48E	11.46	11.91	12.61	14.28	10.73	10.04	10.03E	10.14	9.81	9.81	9.95	9
10	10.43E	11.54	11.93	12.23	14.19	10.60	9.98	10.03E	10.12	9.72	9.85	10.02	10
11	10.43E	11.16	11.96	11.48	13.14	10.46	9.94	10.10E	10.05	9.56	9.82	9.99	11
12	10.37E	10.81	11.94	12.06	11.78	10.41	9.95	10.10E	9.98	9.59	9.82	9.94	12
13	10.07	10.72	11.97	11.50	10.83	10.46	9.98	10.10E	10.02	9.66	9.84	9.91	13
14	10.06	10.67	12.06	10.81	10.54	10.52	10.06	10.16E	9.98	9.87	9.83	9.94	14
15	10.37E	10.68	12.05	10.65	10.47	10.44	10.11	10.16E	9.94	9.96	9.91	10.00	15
16	10.37E	10.64	12.00	11.13	10.45	10.44	10.03	10.16E	9.94	9.85	9.95	10.00	16
17	11.90E	10.59	11.98	11.51	10.54	10.98	9.90	10.32	9.95	9.87	9.91	10.01	17
18	12.73E	10.57	12.02	11.57	10.56	10.88	9.91E	10.31	9.93	9.93	9.89	9.94	18
19	13.22E	10.60	12.05	11.61	10.64	10.50	9.82E	10.28	9.87	9.99	9.96	9.84	19
20	13.45E	10.62	12.04	11.39	10.61	10.37	9.82E	10.28	9.90	10.04	9.99	9.82	20
21	13.45E	10.58	12.01	10.77	10.95	10.42	9.91E	10.24	9.86	10.06	10.03	9.85	21
22	13.45E	11.04	11.99	10.57	10.94	10.43	9.99E	10.15	9.88	10.08	10.01	9.92	22
23	13.45E	11.25	12.02	10.91	10.70	10.39	9.99E	10.10	9.95	10.01	10.06	9.98	23
24	13.45E	11.26	12.01	11.47	10.53	10.38	9.91E	10.09	9.96	9.91	10.10	10.02	24
25	12.98E	11.25	12.00	11.46	10.34	10.37	9.91E	10.08	9.87	9.88	10.07	10.05	25
26	12.98E	11.27	12.04	11.50	10.34	10.36	9.91E	10.00	9.82	9.88	10.08	10.02	26
27	12.98E	11.29	11.99	11.41	10.36	10.38	9.91E	10.02	9.87	9.89	10.13	10.07	27
28	12.98E	11.31	12.01	10.79	10.36	10.33	9.91E	10.06	9.86	9.87	10.08	10.04	28
29	12.98E	11.32	12.01	10.53	10.36	10.22	9.91E	10.06	9.86	9.85	9.95	9.97	29
30	12.47E	11.38	11.99	11.20		10.17	9.91E	10.06	9.91	9.86	9.98	9.94	30
31	11.90E		12.11	11.71		10.22		10.05		9.87	10.06		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-22-67	0945	13.28	2-9-68	2100	14.32						
1- 9-68	0800	13.03									
2- 1-68	0300	13.41									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 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		86.24	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.

a Reflects present datum.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	50.34	49.73	51.03	50.62	50.52	49.59	49.11	48.83	48.13	48.07	48.34E	48.68	1
2	50.43	49.50	51.01	50.76	50.66	49.55	49.53	48.75	48.15	48.04	48.34E	48.81	2
3	50.50	49.34	51.11	50.70	50.85	49.81	49.75	48.77	48.28	48.03	48.34E	48.81E	3
4	50.64	49.25	51.12	51.01	51.10	49.60	50.05	48.76	48.23	47.96	48.34E	48.70E	4
5	50.63	49.29	51.04	51.09	51.21	49.41	50.02	48.81	48.29	48.00	48.42E	48.62	5
6	50.53	49.32	50.99	51.05	51.08	49.34	49.71	48.98	48.17	47.87	48.41	48.64	6
7	50.46	49.33	50.96	50.99	50.50	49.34	49.42	48.91	48.21	47.96	48.42	48.57	7
8	50.37	49.34	50.94	51.12	51.31	49.53	49.40	48.82	48.19	48.06	48.32	48.63	8
9	50.25	49.63	51.12	51.40	52.17	49.73	49.23	48.85	48.36	47.94	48.29	48.64	9
10	50.21	49.87	51.20	51.71	52.39	49.98	49.16	48.80	48.46	47.87	48.24	48.80	10
11	50.15	49.97	51.19	51.57	52.34	50.08	49.02	48.90	48.37	47.98	48.27	48.83	11
12	50.09	49.79	51.01	51.26	51.46	50.09	48.97	48.98	48.36	48.02	48.35	48.87	12
13	49.90	49.56	50.83	51.33	50.55	50.13	48.84	49.33	48.19	47.97	48.32	48.80	13
14	49.77	49.50	50.76	50.99	50.00	50.20	48.87	49.43	48.22	48.05	48.33	48.83	14
15	49.81	49.50	50.79	50.67	49.68	50.26	49.04	49.54	48.20	48.10	48.46	48.68	15
16	49.91	49.53	50.76	50.51	49.56	50.24	49.04	49.61	48.17	48.05	48.58	48.66	16
17	49.83	49.57	50.70	50.63	49.61	50.40	48.93	49.37	48.35	47.91	48.67	48.67	17
18	49.95	49.59	50.68	50.72	49.75	50.57	48.82	49.31	48.16	47.89	48.74	48.70	18
19	50.57	49.68	50.71	50.68	50.08	50.57	48.95	49.13	48.02	47.94	48.70	48.70	19
20	51.23	49.79	50.84	50.65	50.52	50.35	48.96	49.16	48.04	48.05	48.83	48.68	20
21	51.43	50.03	51.13	50.48	50.59	50.16	48.87	49.04	48.04	48.08	48.87	48.69	21
22	51.54	50.07	51.15	50.18	50.72	49.94	49.03	49.02	48.08	48.17	48.79	48.71	22
23	51.53	50.30	51.05	50.02	50.79	49.81	48.92	48.90	48.03	48.15	48.82	48.71	23
24	51.60	50.45	50.91	50.14	50.59	49.78	48.95	48.78	48.02	47.94	48.76	48.91	24
25	51.47	50.45	50.78	50.37	50.34	49.67	48.86	48.73	47.99	47.90	48.90	48.87	25
26	51.25	50.47	50.70	50.37	50.03	49.41	48.91	48.74	47.84	47.89	48.94	48.70	26
27	51.22	50.52	50.74	50.38	49.88	49.24	48.95	48.77	47.84	47.84	48.87	48.53	27
28	51.15	50.55	50.74	50.26	49.78	49.19	48.88	48.70	47.69	48.01	48.79	48.44	28
29	51.12	50.67	50.70	49.91	49.66	49.22	48.94	48.49	47.81	48.14E	48.74	48.51	29
30	51.04	50.83	50.65	49.73		49.10	48.84	48.31	47.86	48.30E	48.71	48.43	30
31	50.22		50.58	50.06		49.05		48.27		48.42E	48.58		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-24-67	1945	51.67									
1-10-68	0345	51.78									
2-10-68	1145	52.41									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	33000a	18.50 65.81b	3-7-38	APR 12-DATE		1912 1959	1959	47.24 47.31 0.00	USCGS USCGS 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 9,990 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California".

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 (33,000 cfs) includes flow in Merced River Slough.

b Reflects present datum.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	40.50	39.98	40.85	40.55	40.27	39.59	39.22	38.99	38.44	38.27	38.60	38.84	1
2	40.58	39.71	40.89	40.65	40.58	39.56	39.67	38.94	38.33	38.29	38.49	39.01	2
3	40.58	39.52	40.94	40.69	40.62	39.67	39.78	38.93	38.46	38.36	38.61	38.97	3
4	40.67	39.38	41.00	40.83	40.88	39.64	40.03	38.94	38.46	38.32	38.62	38.87	4
5	40.76	39.36	40.95	40.98	41.02	39.45	40.12	39.02	38.48	38.30	38.67	38.82	5
6	40.66	39.39	40.90	41.00	41.00	39.35	39.93	39.17	38.46	38.17	38.71	38.88	6
7	40.61	39.40	40.90	40.93	40.57	39.33	39.58	39.22	38.53	38.15	38.74	38.75	7
8	40.47	39.38	40.87	40.96	40.76	39.67	39.60	39.13	38.58	38.34	38.66	38.80	8
9	40.42	39.55	40.96	41.18	41.72	39.72	39.43	39.09	38.60	38.32	38.66	38.92	9
10	40.33	39.76	41.07	41.53	42.10	39.82	39.19	39.06	38.82	38.22	38.63	38.99	10
11	40.27	39.89	41.10	41.49	42.15	39.94	39.07	39.12	38.76	38.22	38.60	39.01	11
12	40.20	39.84	41.04	41.22	41.63	40.00	39.02	39.12	38.66	38.35	38.68	39.00	12
13	40.12	39.65	40.83	41.22	40.77	40.07	38.93	39.40	38.49	38.32	38.65	38.94	13
14	40.00	39.56	40.76	41.01	40.17	40.22	38.97	39.60	38.54	38.32	38.69	39.04	14
15	39.97	39.54	40.75	40.71	39.82	40.35	39.14	39.60	38.48	38.45	38.72	38.96	15
16	40.03	39.54	40.75	40.51	39.66	40.27	39.11	39.67	38.42	38.44	38.79	38.92	16
17	39.95	39.57	40.68	40.50	39.66	40.38	39.10	39.48	38.63	38.38	38.88	38.81	17
18	39.88	39.60	40.66	40.64	39.74	40.54	39.01	39.37	38.56	38.26	39.04	38.82	18
19	40.30	39.64	40.65	40.62	39.94	40.61	39.02	39.31	38.29	38.27	39.01	38.79	19
20	40.92	39.73	40.72	40.59	40.31	40.38	39.08	39.31	38.23	38.30	39.02	38.84	20
21	41.20	39.91	40.98	40.50	40.45	40.31	39.03	39.24	38.27	38.43	39.08	38.88	21
22	41.34	39.99	41.07	40.24	40.54	40.13	39.11	39.22	38.34	38.45	39.04	38.90	22
23	41.36	40.12	41.01	40.05	40.63	39.92	39.12	39.10	38.33	38.56	39.04	38.97	23
24	41.39	40.30	40.89	40.03	40.53	39.80	39.12	39.01	38.25	38.35	38.97	39.12	24
25	41.41	40.34	40.78	40.25	40.33	39.74	39.07	38.99	38.26	38.22	39.11	39.11	25
26	41.17	40.37	40.68	40.31	40.07	39.52	39.07	38.96	38.16	38.23	39.24	38.94	26
27	41.11	40.39	40.68	40.29	39.87	39.34	39.09	39.03	38.08	38.22	39.17	38.79	27
28	41.06	40.44	40.69	40.26	39.79	39.25	39.09	38.93	38.03	38.26	39.11	38.67	28
29	41.04	40.53	40.67	39.98	39.67	39.30	39.07	38.79	38.05	38.43	38.98	38.76	29
30	40.99	40.67	40.61	39.82		39.22	38.98	38.58	38.03	38.47	38.94	38.71	30
31	40.47		40.56	39.92		39.20		38.49		38.57	38.83		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-25-67	0300	41.48	2-11-68	1100	42.15						
12-11-67	1000	41.12									
1-10-68	1200	41.60									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 26 52	121 00 44	NW 8 6S 9E		61.9	4- 7-58	OCT 65-DATE	41-SEP 65		1959	0.00	USED
				58.4a	4- 7-58			1959		0.00	USGS
			16700b	56.69	4-27-67			1959		3.51	USED

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

a Reflects present datum.
b Maximum discharge since station was rated in October 1965.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	67.05	71.59	70.68E	69.76	69.51	70.91	67.39	67.18	67.28	67.17	67.10	67.21	1
2	67.05	71.95	70.42	70.12	68.01	70.11	67.39	67.18	67.27	67.18	67.11	67.20	2
3	67.16	71.53	70.08	70.25	67.47	70.29	67.38	67.18	67.31	67.17	67.15	67.22	3
4	67.87	71.47	70.63	70.33	67.42	71.32	67.38	67.18	67.28	67.14	67.33	67.25	4
5	68.20	71.15	70.64	70.49	68.39	71.16	67.37	67.18	67.26	67.14	67.29	67.20	5
6	67.69	71.42	70.75	69.89	68.44	71.18	67.37	67.18	67.27	67.14	67.29	67.21	6
7	67.27	71.58	70.86	69.76	68.32	71.04	67.36	67.18	67.27	67.12	67.39	67.11	7
8	67.24	71.62	70.87	70.25	68.39	70.97	67.35	67.18	67.27	67.13	67.34	66.94	8
9	67.24	71.62	70.42	70.12	68.46	70.58	67.36	67.19	67.26	67.14	67.28	66.92	9
10	67.23	71.63	70.18	69.89	67.93	70.09	67.36	67.18	67.26	67.17	67.27	66.92	10
11	67.26	71.56	71.04	69.92	67.82	70.76	67.36	67.20	67.28	67.14	67.27	66.93	11
12	67.26	71.36	71.19	69.81	68.63	70.74	67.35	67.21	67.25	67.13	67.27	66.93	12
13	67.25	71.47	71.46	69.70	69.60	70.61	67.37	67.21	67.25	67.13	67.26	66.94	13
14	68.47	71.60	71.28	69.71	69.42	70.46	67.36	67.18	67.38	67.12	67.25	66.91	14
15	67.78	71.56	71.09	69.73	69.21	70.40	67.35	67.29	67.31	67.12	67.25	66.90	15
16	68.75	71.17	70.79	69.77	68.93	70.30	67.44	67.15	67.25	67.12	67.25	66.89	16
17	68.80	70.97	70.54	69.76	68.43	69.90	67.28	67.14	67.24	67.12	67.24	66.90	17
18	68.79	70.78	70.86	69.75	67.74	70.89	67.17	67.13	67.17	67.13	67.24	66.96	18
19	68.85	70.65	70.37	69.72	68.49	71.42	67.18	67.11	67.17	67.13	67.24	66.96	19
20	68.94	71.13	70.32	69.62	69.31	71.21	67.18	67.13	67.16	67.12	67.23	66.94	20
21	68.63	70.94	70.31	68.18	70.62	70.92	67.18	67.17	67.15	67.11	67.23	66.94	21
22	68.09	70.53	70.11	69.56	71.75	69.75	67.18	67.16	67.14	67.11	67.23	66.95	22
23	69.30	69.97	69.81	69.68	72.25	69.09	67.18	67.17	67.14	67.12	67.23	66.95	23
24	70.60	70.36E	69.79	69.57	71.93	68.85	67.18	67.27	67.14	67.11	67.22	66.95	24
25	70.94	70.11E	69.80	69.60	71.94	69.43	67.18	67.17	67.17	67.11	67.22	66.95	25
26	71.15	70.45E	69.82	69.46	71.60	69.32	67.18	67.12	67.15	67.11	67.22	66.96	26
27	70.23	70.75E	69.82	69.37	71.48	68.67	67.18	67.13	67.13	67.11	67.22	66.92	27
28	70.13	70.83E	69.84	69.35	71.51	67.95	67.21	67.17	67.13	67.11	67.21	66.92	28
29	71.39	71.11E	69.79	69.77	71.50	68.32	67.19	67.19	67.15	67.09	67.32	66.91	29
30	71.81	70.97E	69.78	69.76		67.43	67.19	67.35	67.19	67.11	67.32	66.92	30
31	71.91		69.77	69.44		67.38		67.31		67.10	67.22		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-12-67	2130	72.48	2-22-68	1430	72.66						
12-13-67	2015	72.46	2-23-68	0830	72.66						
12-14-67	2145	72.44	2-25-68	1530	72.65						

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 59	120 27 40	NW20 3S 14E	48200	188.0	12- 8-50	OCT 36-SEP 60 OCT 61-DATE		1937		0.00	USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.53	72.04	71.50	70.32	70.16	71.74	68.61	68.38	68.37	68.38	68.39	68.50	1
2	68.48	71.91	71.14	70.38	69.43	70.81	68.51	68.35	68.35	68.37	68.40	68.49	2
3	68.45	71.87	70.84	70.72	68.95	70.66	68.49	68.39	68.35	68.37	68.40	68.46	3
4	68.45	71.96	70.78	70.87	68.60	71.59	68.48	68.40	68.36	68.38	68.40	68.47	4
5	68.58	71.73	71.12	70.94	68.54	71.71	68.48	68.41	68.39	68.38	68.44	68.49	5
6	68.86	71.71	71.22	70.88	69.28	71.76	68.47	68.40	68.42	68.37	68.44	68.53	6
7	68.78	72.03	71.34	70.43	69.20	71.58	68.47	68.39	68.40	68.35	68.43	68.51	7
8	68.54	72.07	71.38	70.45	69.10	71.61	68.45	68.37	68.39	68.36	68.45	68.48	8
9	68.48	72.06	71.23	70.81	69.23	71.48	68.45	68.38	68.36	68.36	68.50	68.49	9
10	68.46	72.10	70.86	70.67	69.15	70.83	68.46	68.37	68.36	68.35	68.48	68.48	10
11	68.43	72.07	71.02	70.47	68.82	70.94	68.46	68.37	68.36	68.39	68.46	68.48	11
12	68.44	71.88	71.61	70.50	68.76	71.29	68.47	68.39	68.37	68.39	68.47	68.47	12
13	68.46	71.87	71.85	70.34	69.83	71.31	68.47	68.42	68.37	68.38	68.48	68.48	13
14	68.47	72.08	71.92	70.27	70.14	71.09	68.46	68.43	68.37	68.39	68.50	68.48	14
15	69.17	72.04	71.74	70.32	70.01	70.98	68.46	68.44	68.37	68.40	68.51	68.48	15
16	68.88	71.86	71.46	70.32	69.65	70.92	68.45	68.45	68.40	68.37	68.50	68.49	16
17	69.47	71.52	71.17	70.34	69.52	70.73	68.45	68.45	68.39	68.36	68.49	68.48	17
18	69.49	71.38	71.36	70.32	69.15	70.82	68.45	68.44	68.37	68.34	68.50	68.48	18
19	69.49	71.25	71.11	70.30	68.84	72.04	68.43	68.43	68.36	68.34	68.52	68.49	19
20	69.54	71.33	70.90	70.27	69.56	71.68	68.42	68.42	68.37	68.34	68.52	68.49	20
21	69.52	71.62	70.85	69.67	71.08	71.65	68.41	68.41	68.37	68.37	68.51	68.50	21
22	69.25	71.14	70.85	69.47	71.50	70.58	68.42	68.39	68.37	68.37	68.49	68.51	22
23	69.05	70.90	70.49	70.25	72.99	70.12	68.42	68.38	68.37	68.37	68.49	68.51	23
24	70.74	70.69	70.37	70.23	72.40	69.73	68.41	68.39	68.37	68.36	68.50	68.50	24
25	70.97	71.02	70.36	70.13	72.48	69.55	68.41	68.40	68.35	68.37	68.55	68.49	25
26	71.37	70.75	70.34	70.06	72.26	70.07	68.42	68.40	68.34	68.36	68.57	68.50	26
27	71.06	71.00	70.38	70.04	72.00	69.78	68.41	68.40	68.34	68.34	68.53	68.50	27
28	70.51	71.36	70.39	69.94	72.02	69.14	68.41	68.40	68.36	68.34	68.52	68.51	28
29	70.91	71.35	70.39	70.02	72.01	68.95	68.40	68.39	68.37	68.36	68.53	68.51	29
30	72.00	71.56	70.35	70.32		69.14	68.39	68.38	68.37	68.33	68.53	68.51	30
31	72.16		70.34	70.33		68.60		68.38		68.35	68.54		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11-07-67	0430	72.58	2-25-68	2245	72.90						
12-14-67	0445	72.79	3-08-68	0345	72.49						
2-23-68	1730	73.14									

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

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. 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-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.36	67.59	67.88	67.86	68.60	68.07	68.56	68.32	68.27	68.02	68.08	68.34	1
2	68.37	67.53	67.89	67.86	68.67	67.99	69.23	68.35	68.18	67.93	68.08	68.50	2
3	68.52	67.55	67.88	67.88	68.34	67.94	68.77	68.31	68.17	67.88	68.04	68.45	3
4	68.55	67.55	67.86	67.87	68.11	67.90	68.27	68.39	68.07	67.90	68.10	68.53	4
5	68.39	67.51	67.89	67.86	67.98	67.86	68.12	68.42	68.07	67.95	68.18	68.57	5
6	68.29	67.52	67.95	67.85	67.89	67.84	68.12	68.33	68.16	67.99	68.18	68.50	6
7	68.29	67.52	67.92	67.85	67.86	67.85	68.23	68.33	68.20	67.98	68.17	68.45	7
8	68.34	67.53	67.93	67.85	67.83	68.10	68.28	68.34	68.28	67.99	68.12	68.38	8
9	68.40	67.51	67.91	67.85	67.82	71.24	68.26	68.32	68.30	68.12	68.21	68.30	9
10	68.43	67.56	67.88	67.87	67.81	69.81	68.28	68.31	68.35	68.19	68.16	68.26	10
11	68.37	67.55	67.87	67.87	67.83	68.91	68.56	68.22	68.28	68.06	68.13	68.23	11
12	68.42	67.52	67.87	67.86	67.83	68.48	68.53	68.22	68.33	67.99	68.21	68.21	12
13	68.38	67.48	67.86	67.86	67.88	68.28	68.50	68.25	68.14	68.06	68.14	68.33	13
14	68.36	67.92	67.88	67.85	67.97	68.29	68.37	68.22	68.10	68.09	68.21	68.43	14
15	68.28	67.90	67.97	67.88	67.97	69.12	68.21	68.38	68.12	68.18	68.24	68.38	15
16	68.25	67.90	67.90	68.04	67.97	68.80	68.13	68.39	68.02	68.19	68.24	68.37	16
17	68.28	67.91	67.87	67.96	67.99	71.35	68.02	68.35	68.07	68.10	68.25	68.37	17
18	68.45	67.93	67.88	67.89	68.82	71.28	67.95	68.29	68.15	68.07	68.25	68.32	18
19	68.52	67.98	67.88	67.86	69.91	69.39	68.08	68.26	68.10	68.15	68.33	68.29	19
20	68.71	68.05	67.87	67.84	68.98	68.73	68.18	68.27	68.07	68.21	68.38	68.23	20
21	68.89	68.13	67.87	67.83	71.68	68.45	68.42	68.36	68.03	68.19	68.42	68.27	21
22	68.74	68.05	67.85	67.83	71.89	68.28	68.45	68.43	68.03	68.22	68.54	68.35	22
23	68.56	68.00	67.84	67.83	69.96	68.17	68.47	68.51	67.94	68.00	68.44	68.42	23
24	68.92	67.93	67.84	67.83	69.08	68.11	68.53	68.36	67.95	67.93	68.38	68.44	24
25	68.73	67.90	67.86	67.82	68.71	68.06	68.56	68.41	67.91	68.02	68.58	68.36	25
26	68.77	67.88	67.86	67.81	68.45	68.02	68.49	68.35	67.96	68.10	68.58	68.36	26
27	68.83	67.86	67.87	67.81	68.35	67.99	68.49	68.32	68.01	68.12	68.48	68.43	27
28	68.73	67.85	67.87	67.82	68.32	68.48	68.40	68.26	67.98	68.06	68.53	68.56	28
29	68.08	67.85	67.86	67.83	68.18	68.42	68.46	68.31	68.05	68.08	68.41	68.45	29
30	67.93	67.87	67.86	67.86		68.30	68.39	68.21	68.09	68.03	68.41	68.55	30
31	67.77		67.86	68.43		68.31		68.16		68.14	68.42		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
2-21-68	1130	72.83	3-17-68	2015	73.50						
2-22-68	1200	72.63									
3- 9-68	1130	72.67									

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. Station is operated under a cooperative agreement between the Department of Water Resources and the Modesto Irrigation District. Drainage area is 192.3 square miles.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.49	43.64	42.60E	42.13	42.07	42.89E	41.55	41.25	41.20	41.18	41.15	41.20	1
2	41.46	43.34	42.56E	42.13	42.07	42.72E	41.69	41.24	41.18	41.16	41.15	41.19	2
2	41.45	43.49	42.41E	42.27	41.63	42.47E	41.45	41.25	40.76	41.15	41.13	41.18	3
4	41.45	43.27	42.28E	42.36	41.47	42.10E	41.37	41.25	41.17	41.17	41.13	41.18	4
5	41.44	43.17	42.37E	42.41	41.35	42.68E	41.37	41.26	41.20	41.16	41.15	41.19	5
6	41.54	42.87	42.40E	42.49	41.49	42.76E	41.36	41.26	41.22	41.21	41.14	41.19	6
7	41.61	43.19	42.47E	42.24	41.62	42.80E	41.38	41.23	41.19	41.17	41.14	41.19	7
8	41.55	43.35	42.56E	42.15	41.58	42.85E	41.38	41.23	41.21	41.18	41.12	41.17	8
9	41.48	43.34	42.56E	42.35	41.59	42.80E	41.31E	41.22	41.21	41.19	41.15	41.16	9
10	41.42	43.34	42.44E	42.34	41.62	42.68E	41.30E	41.22	41.21	41.22	41.15	41.16	10
11	41.42	43.35	42.32E	42.22	41.48	42.40E	41.30E	41.21	41.20	41.18	41.14	41.16	11
12	41.40	43.23	42.47E	42.21	41.41	42.68E	41.28E	39.75	41.22	41.19	41.16	41.15	12
13	41.40	43.03	42.64E	42.17	41.64	42.70	41.28E	41.02	41.18	41.20	41.14	41.15	13
14	41.43	43.23	42.76E	42.12	42.01	42.62	41.27E	41.23	41.18	41.20	41.13	41.18	14
15	41.67	43.29	42.76E	42.14	42.00	42.56	41.28E	41.24	41.18	41.18	41.16	41.19	15
16	41.66	43.23	42.68E	42.14	41.92	42.55	41.27E	40.82	41.18	41.17	41.15	41.19	16
17	41.78	42.89	42.56E	42.15	41.85	42.67	41.28E	41.24	41.19	41.12	41.15	41.18	17
18	41.86	42.73	42.47E	42.15	41.72	42.59	41.27E	41.24	41.19	41.12	41.15	41.16	18
19	41.89	42.63	42.71E	42.13	41.72	43.09	41.28E	40.83	41.17	41.14	41.19	41.16	19
20	41.91	42.54E	42.47	42.12	41.75	43.10	41.27E	41.23	41.18	41.12	41.18	41.17	20
21	41.94	42.54E	42.42	42.05	42.39	42.95	41.28E	41.22	41.17	41.12	41.18	41.16	21
22	41.89	42.54E	42.41	41.67	42.86	42.69	41.27E	41.23	41.17	41.16	41.19	41.16	22
23	41.72	42.47E	42.30	42.01	43.50E	42.30	41.28E	40.83	41.16	41.14	41.20	41.17	23
24	42.01	42.40E	42.18	42.09	43.79E	42.02	41.28	41.23	41.17	41.13	41.17	41.18	24
25	42.45	42.40E	42.16	42.06	43.44E	41.89	41.29	41.25	41.15	41.13	41.20	41.16	25
26	42.69	42.36E	42.15	42.05	43.44E	42.05	41.28	41.24	41.16	41.13	41.21	41.17	26
27	42.83	42.32E	42.16	42.01	43.05E	42.04	41.30	41.22	41.15	41.11	41.20	41.18	27
28	42.43	42.40E	42.16	41.97	42.98E	41.88	41.26	41.22	41.17	41.11	41.20	41.20	28
29	42.37	42.47E	42.16	41.95	42.94E	41.70	41.27	40.79	41.16	41.11	41.19	41.20	29
30	43.02	42.56E	42.15	42.13		41.72	41.26	41.22	41.20	41.10	41.19	41.20	30
21	43.51		42.14	42.20		41.56		41.20		41.10	41.19		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11- 3-67	1100	43.73									
2-23-68	--	45.10									
3-19-68	2100	43.39									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	78- 84 91- 94	1940		0.00	USCGS

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

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	25.21	29.20	28.02	26.16	26.09	28.60	24.42	23.53	23.23	23.15	23.17	23.28	1
2	25.08	29.03	27.87	26.13	25.95	28.06	24.88	23.47	23.27	23.13	23.24	23.25	2
3	25.02	29.12	27.41	26.31	25.16	27.02	24.46	23.50	23.19	23.11	23.19	23.19	3
4	25.01	28.86	26.98	26.64	24.61	26.38	24.14	23.48	23.23	23.12	23.17	23.13	4
5	24.95	28.76	27.16	26.82	24.27	28.01	24.07	23.61	23.20	23.12	23.20	23.16	5
6	25.01	28.42	27.41	27.00	24.20	28.13	24.12	23.59	23.32	23.17	23.21	23.27	6
7	25.27	28.54	27.57	26.69	24.62	28.20	24.07	23.51	23.30	23.13	23.26	23.35	7
8	25.25	28.85	27.73	26.27	24.59	28.32	24.09	23.52	23.32	23.08	23.22	23.36	8
9	25.04	28.92	27.77	26.47	24.52	28.28	23.95	23.52	23.36	23.08	23.21	23.31	9
10	24.90	28.93	27.41	26.72	24.62	28.20	23.90	23.47	23.35	23.11	23.26	23.28	10
11	24.82	28.94	27.00	26.52	24.50	27.15	23.81	23.47	23.37	23.07	23.23	23.29	11
12	24.81	28.87	27.52	26.34	24.24	27.37	23.81	23.47	23.32	23.07	23.18	23.27	12
13	24.77	28.61	28.09	26.29	24.28	27.67	23.78	23.46	23.30	23.11	23.10	23.28	13
14	24.81	28.68	28.49	26.14	25.25	27.58	23.78	23.45	23.25	23.13	23.11	23.32	14
15	24.96	28.88	28.48	26.13	25.59	27.38	23.72	23.41	23.22	23.10	23.18	23.38	15
16	25.48	28.85	28.23	26.11	25.50	27.34	23.68	23.42	23.20	23.13	23.22	23.35	16
17	25.34	28.50	27.83	26.12	25.28	27.32	23.65	23.43	23.25	23.18	23.26	23.30	17
18	25.70	28.11	27.48	26.12	24.99	27.61	23.63	23.43	23.25	23.13	23.28	23.23	18
19	25.81	27.88	27.67	26.09	24.97	27.50	23.64	23.46	23.18	23.13	23.29	23.29	19
20	25.84	27.70	27.29	26.04	24.76	28.13	23.63	23.42	23.20	23.20	23.32	23.27	20
21	25.91	27.98	27.02	25.98	25.67	27.82	23.63	23.36	23.23	23.18	23.32	23.24	21
22	25.92	28.08	26.94	25.29	27.65	27.54	23.68	23.40	23.21	23.12	23.36	23.29	22
23	25.65	27.56	26.82	25.33	28.79	26.87	23.63	23.43	23.17	23.11	23.40	23.22	23
24	25.57	27.05	26.45	25.88	29.83	26.13	23.59	23.46	23.16	23.06	23.26	23.17	24
25	27.01	27.13	26.30	25.87	29.35	25.68	23.65	23.36	23.14	23.10	23.37	23.21	25
26	27.63	27.21	26.26	25.82	29.32	25.66	23.64	23.42	23.10	23.11	23.40	23.22	26
27	28.15	26.92	26.24	25.72	28.96	25.94	23.70	23.37	23.12	23.12	23.37	23.27	27
28	27.67	27.46	26.26	25.67	28.69	25.64	23.62	23.36	23.11	23.12	23.38	23.34	28
29	27.20	27.69	26.25	25.55	28.63	25.09	23.58	23.30	23.10	23.03	23.39	23.37	29
30	27.96	27.89	26.23	25.83		24.89	23.58	23.30	23.19	23.06	23.32	23.31	30
31	28.93		26.18	26.24		24.83		23.27		23.11	23.25		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11- 2-67	0015	29.26	2-24-68	0700	30.03						
11- 3-67	1800	29.24									
11-11-67	1900	29.12									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	30-DATE			1959	0.00	USED
				43.15a	12- 9-50			1960		0.00	USCGS
			8880b	38.50	4-23-67			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.

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

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17.22	19.26	18.91	17.63	17.30	18.58	16.11	14.51	14.11	13.94	14.06	14.67	1
2	17.22	19.09	18.95	17.62	17.27	18.33	16.56	14.52	14.27	13.85	14.07	14.73	2
3	17.31	18.90	18.76	17.70	17.12	17.70	16.63	14.53	14.25	13.85	14.08	14.66	3
4	17.31	18.77	18.53	17.92	16.75	17.45	16.36	14.57	14.21	13.88	14.16	14.58	4
5	17.35	18.66	18.45	18.14	16.66	17.86	16.25	14.75	14.20	13.83	14.23	14.52	5
6	17.42	18.50	18.68	18.30	16.62	18.12	16.17	14.83	14.27	13.87	14.22	14.59	6
7	17.49	18.40	18.72	18.30	16.79	18.11	15.94	14.80	14.33	13.79	14.22	14.71	7
8	17.54	18.64	18.82	17.98	16.64	18.30	15.71	14.83	14.30	13.85	14.14	14.88	8
9	17.44	18.70	18.84	17.96	16.81	18.33	15.48	14.78	14.40	13.90	14.10	14.82	9
10	17.08	18.82	18.79	18.32	17.25	18.44	15.20	14.65	14.48	13.92	14.25	14.73	10
11	16.86	18.91	18.55	18.40	17.43	17.85	15.01	14.78	14.47	13.89	14.28	14.71	11
12	16.88	18.93	18.54	18.25	17.31	17.76	14.87	14.85	14.26	13.83	14.31	14.82	12
13	16.82	18.77	18.83	18.12	16.96	18.03	14.90	15.03	14.24	13.82	14.27	14.85	13
14	16.76	18.65	18.87	17.96	16.90	18.08	14.90	15.20	14.17	13.94	14.22	14.82	14
15	16.81	18.78	18.97	17.79	16.95	17.99	15.06	15.10	14.06	13.99	14.18	14.94	15
16	17.18	18.80	18.97	17.63	16.78	18.04	14.87	15.07	14.05	14.02	14.19	14.98	16
17	16.98	18.66	18.80	17.53	16.59	18.08	14.77	15.01	14.14	14.02	14.23	14.87	17
18	17.08	18.42	18.59	17.54	16.46	18.34	14.77	14.91	14.16	13.87	14.50	14.84	18
19	17.16	18.37	18.57	17.54	16.37	18.32	14.59	14.85	14.08	13.78	14.58	14.73	19
20	17.42	18.31	18.52	17.48	16.38	18.94	14.63	15.00	13.92	13.75	14.63	14.76	20
21	17.74	18.36	18.32	17.43	16.85	18.91	14.65	14.90	14.08	13.82	14.78	14.74	21
22	18.00	18.62	18.35	17.14	18.04	18.85	14.74	14.80	14.07	14.03	14.94	14.78	22
23	17.96	18.40	18.36	16.75	18.68	18.29	14.81	14.69	14.12	14.08	14.95	14.85	23
24	17.74	18.19	18.14	17.04	19.58	17.76	14.83	14.77	14.15	14.00	14.80	14.88	24
25	18.35	18.05	17.93	17.13	19.47	17.38	14.87	14.68	14.08	13.89	14.82	14.82	25
26	18.72	18.27	17.84	17.18	19.31	17.09	14.79	14.70	13.92	13.93	15.03	14.86	26
27	18.99	18.12	17.77	17.14	19.08	16.97	14.71	14.72	13.91	13.92	15.06	14.89	27
28	18.98	18.21	17.79	17.05	18.77	16.81	14.81	14.56	13.92	13.91	14.99	14.79	28
29	18.60	18.61	17.78	16.91	18.64	16.27	14.82	14.36	13.83	14.02	15.03	14.85	29
30	18.60	18.70	17.75	16.89		16.09	14.70	14.29	13.92	13.96	14.91	14.88	30
31	19.20		17.67	17.28		16.23		14.17		14.03	14.76		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-28-67	0530	19.12	2-24-68	1700	19.72						
11- 1-67	0530	19.28									
12-16-67	0230	19.07									

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	SW 29 3S 7E		39.8	12- 9-50	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
				36.4a	12- 9-50		APR 52-SEP 65	1959		0.00	USCGS
			22660b	32.65	4-29-67	OCT 65-DATE		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 realtion affected by backwater from the Stanislaus River during high flows in the Stanislaus.

a Reflects present datum.
b Maximum discharge since station was rated in October 1965.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.62	2.84	4.28	4.17	2.28	2.14	5.19	1.50	1.40	1.28	1.38	1.38	1
2	1.63	2.82	4.27	4.17	2.18	1.94	5.28	1.46	1.36	1.26	1.38	1.38	2
3	1.68	2.82	4.27	4.16	2.25	1.90	4.43	1.45	1.34	1.26	1.38	1.36	3
4	1.66	2.83	4.26	4.17	2.17	1.88	4.24	1.47	1.38	1.30	1.43	1.37	4
5	1.73	2.84	4.29	4.16	2.22	1.88	3.91	1.49	1.38	1.30	1.47	1.36	5
6	1.84	2.78	4.28	4.16	2.18	1.88	3.41	1.47	1.41	1.30	1.45	1.33	6
7	1.85	2.78	4.26	4.16	2.22	1.86	3.19	1.45	1.42	1.31	1.45	1.28	7
8	1.86	2.82	4.19	4.16	2.17	2.43	2.82	1.50	1.48	1.32	1.46	1.28	8
9	1.88	2.82	4.19	4.16	2.19	2.05	2.08	1.49	1.42	1.32	1.41	1.31	9
10	1.87	2.82	4.18	4.22	2.20	1.90	1.97	1.53	1.39	1.33	1.38	1.32	10
11	1.87	2.83	3.91	4.18	2.22	1.90	1.95	1.42	1.42	1.34	1.42	1.30	11
12	1.88	2.83	2.59	3.85	2.20	1.89	1.85	1.42	1.44	1.34	1.40	1.28	12
13	1.90	2.84	2.07	3.13	2.18	2.01	1.66	1.43	1.38	1.35	1.48	1.31	13
14	1.89	2.84	4.05	3.13	2.15	2.06	1.54	1.42	1.30	1.36	1.44	1.32	14
15	1.91	2.87	4.18	3.22	2.12	1.96	1.52	1.39	1.32	1.36	1.44	1.33	15
16	1.92	3.09	4.18	3.17	2.19	2.32	1.53	1.36	1.30	1.37	1.45	1.34	16
17	1.95	4.14	4.18	3.17	2.40	2.42	1.53	1.34	1.33	1.38	1.43	1.33	17
18	1.94	4.27	4.20	2.91	2.38	2.02	1.63	1.34	1.34	1.38	1.42	1.30	18
19	2.26	4.31	4.18	2.89	2.24	1.93	1.68	1.40	1.28	1.39	1.43	1.24	19
20	2.69	4.32	4.16	2.88	2.70	2.02	1.70	1.42	1.27	1.39	1.41	1.27	20
21	2.79	4.32	4.15	2.87	2.60	3.78	1.65	1.42	1.27	1.39	1.44	1.27	21
22	2.78	4.32	4.16	2.84	2.37	3.79	1.63	1.49	1.28	1.39	1.45	1.32	22
23	2.74	4.31	4.16	3.10	2.28	3.88	1.65	1.52	1.26	1.38	1.45	1.36	23
24	2.87	4.31	4.15	3.04	2.27	4.02	1.62	1.51	1.26	1.40	1.43	1.35	24
25	2.84	4.30	4.15	2.99	2.25	3.98	1.61	1.44	1.23	1.43	1.47	1.36	25
26	2.86	4.30	4.15	2.38	2.24	3.85	1.61	1.40	1.24	1.39	1.48	1.33	26
27	2.94	4.30	4.15	2.19	2.24	3.09	1.59	1.38	1.26	1.38	1.46	1.34	27
28	2.82	4.28	4.15	2.19	2.17	3.28	1.55	1.38	1.28	1.36	1.48	1.33	28
29	2.83	4.28	4.12	2.18	2.22	5.12	1.54	1.42	1.27	1.37	1.44	1.36	29
30	2.82	4.29	4.05	2.21		5.06	1.57	1.43	1.26	1.37	1.39	1.33	30
31	2.82		4.09	2.52		5.04		1.38		1.36	1.38		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
3-29-68	0115	5.19									
4- 1-68	1950	5.74									

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 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. Equipped with radio telemeter.

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	39.88	38.79	41.56	41.18	38.79	37.69	42.98	37.07	36.64	36.45	36.32	36.59	1
2	39.94	38.78	41.53	41.28	38.30	37.63	43.38	37.10	36.72	36.55	36.34	36.63	2
3	40.03	38.74	41.52	41.27	38.07	37.46	43.09	37.19	36.67	36.40	36.30	36.52	3
4	40.16	38.76	41.54	41.30	38.04	37.35	41.84	37.07	36.58	36.38	36.48	36.57	4
5	39.90	38.81	41.58	41.30	37.95	37.30	41.45	37.04	36.62	36.43	36.72	36.71	5
6	39.90	38.78	41.59	41.30	37.95	37.26	40.98	37.04	36.90	36.39	36.73	36.64	6
7	39.83	38.73	41.58	41.29	37.91	37.25	40.22	36.92	36.64	36.44	36.57	36.49	7
8	39.98	38.67	41.56	41.28	37.92	37.42	39.99	36.89	36.86	36.47	36.42	36.38	8
9	40.12	38.67	41.44	41.29	37.87	38.13	39.61	36.86	36.83	36.32	36.33	36.33	9
10	39.40	38.72	41.42	41.33	37.86	37.68	38.71	36.88	36.68	36.35	36.31	36.28	10
11	39.00	38.75	41.41	41.39	37.86	37.34	38.35	36.84	36.64	36.31	36.33	36.33	11
12	38.85	38.76	40.96	41.32	37.84	37.24	38.00	36.90	36.60	36.26	36.28	36.42	12
13	39.03	38.75	39.53	40.75	37.84	37.23	37.83	36.92	36.79	36.48	36.39	36.38	13
14	38.95	38.77	38.82	39.80	37.82	37.24	37.63	37.14	36.74	36.47	36.28	36.27	14
15	38.99	38.78	40.61	39.68	37.76	37.68	37.49	37.01	36.63	36.45	36.39	36.29	15
16	38.91	38.80	41.19	39.71	37.73	37.96	37.46	36.83	36.87	36.27	36.30	36.39	16
17	38.94	39.16	41.27	39.61	37.82	38.52	37.26	36.81	36.75	36.25	36.37	36.41	17
18	39.24	40.62	41.35	39.56	37.96	38.67	37.24	36.83	36.63	36.25	36.42	36.51	18
19	39.49	41.09	41.38	39.26	38.02	38.04	37.20	36.80	36.65	36.22	36.45	36.52	19
20	39.79	41.26	41.34	39.16	37.85	37.80	37.30	36.77	36.47	36.29	36.48	36.60	20
21	40.22	41.35	41.31	39.09	38.39	37.72	37.38	36.79	36.42	36.40	36.41	36.54	21
22	40.34	41.42	41.30	39.04	38.40	39.74	37.35	36.89	36.47	36.37	36.66	36.77	22
23	39.77	41.44	41.31	39.04	38.08	40.37	37.28	36.94	36.80	36.26	36.61	36.74	23
24	39.31	41.45	41.31	39.34	37.89	41.07	37.23	37.08	36.71	36.39	36.56	36.74	24
25	39.27	41.45	41.29	39.28	37.82	41.33	37.16	36.83	36.55	36.28	36.52	36.61	25
26	39.22	41.46	41.29	39.17	37.78	41.12	37.14	36.82	36.62	36.31	36.55	36.63	26
27	39.27	41.47	41.29	38.57	37.76	40.82	37.02	36.81	36.64	36.39	36.56	36.57	27
28	39.43	41.49	41.29	38.23	37.74	40.05	37.17	36.65	36.40	36.49	36.52	36.67	28
29	39.22	41.49	41.28	38.12	37.68	40.25	37.38	36.63	36.34	36.43	36.49	36.70	29
30	38.99	41.54	41.24	38.12		42.43	37.09	36.73	36.35	36.39	36.46	36.53	30
31	38.91		41.11	38.51		42.75		36.66		36.40	36.49		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12- 5-67	2345	41.62	4- 2-68	2230	43.69						
1-11-68	1415	41.41									
3-25-68	0615	41.51									

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-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	30.91	29.69	32.24	31.79	29.49	28.41	33.65	27.94	27.32	27.28	27.19	27.53	1
2	30.92	29.64	32.22	31.91	29.09	28.41	33.93	28.03	27.43	27.26	27.14	27.47	2
3	31.07	29.61	32.19	31.92	28.82	28.26	34.02	28.14	27.50	27.18	27.25	27.40	3
4	31.24	29.61	32.20	31.95	28.75	28.12	32.87	28.06	27.25	27.16	27.55	27.42	4
5	31.12	29.66	32.23	31.95	28.68	28.05	32.48	28.12	27.24	27.44	27.54	27.50	5
6	31.07	29.63	32.25	31.96	28.65	28.02	31.89	27.98	27.88	27.32	27.54	27.51	6
7	31.06	29.59	32.23	31.95	28.64	28.02	31.19	27.85	27.68	27.21	27.50	27.43	7
8	31.12	29.51	32.22	31.93	28.62	28.18	30.88	27.78	27.65	27.33	27.39	27.36	8
9	31.17	29.49	32.11	31.93	28.59	28.71	30.51	27.83	27.75	27.22	27.28	27.34	9
10	30.66	29.52	32.07	31.96	28.58	28.60	29.55	27.89	27.46	27.23	27.17	27.18	10
11	30.17	29.55	32.05	32.02	28.58	28.18	29.14	27.78	27.34	27.37	27.20	27.50	11
12	29.94	29.56	31.79	31.99	28.55	28.02	28.80	27.84	27.44	27.36	27.10	27.53	12
13	29.98	29.54	30.58	31.64	28.55	28.00	28.63	27.88	27.41	27.36	27.19	27.50	13
14	29.99	29.56	29.62	30.68	28.54	27.98	28.50	27.98	27.53	27.38	27.05	27.23	14
15	29.98	29.57	30.85	30.43	28.53	28.30	28.41	27.92	27.50	27.52	26.84	27.36	15
16	29.92	29.57	31.72	30.42	28.47	28.69	28.18	27.87	27.72	27.22	26.87	27.45	16
17	30.12	29.79	31.87	30.33	28.58	29.11	28.03	27.86	27.48	27.15	27.32	27.48	17
18	30.25	30.92	31.96	30.27	28.58	29.62	28.04	27.59	27.48	27.03	27.47	27.44	18
19	30.47	31.67	32.01	30.01	28.79	29.03	28.07	27.78	27.42	27.07	27.52	27.48	19
20	30.76	31.89	31.98	29.87	28.62	28.82	28.06	27.70	27.18	27.08	27.43	27.39	20
21	31.10	32.00	31.96	29.80	28.94	28.75	28.42	27.64	27.29	27.32	27.48	27.50	21
22	31.39	32.08	31.94	29.73	29.13	30.10	28.35	27.81	27.41	27.22	27.63	27.72	22
23	30.97	32.12	31.95	29.69	28.92	31.06	28.10	27.84	27.74	27.12	27.63	27.68	23
24	30.52	32.13	31.95	29.94	28.67	31.58	28.10	28.08	27.68	27.08	27.66	27.52	24
25	30.43	32.15	31.95	29.93	28.62	32.08	27.93	27.89	27.49	27.15	27.69	27.65	25
26	30.27	32.17	31.93	29.88	28.53	31.95	27.86	27.60	27.39	27.23	27.52	27.93	26
27	30.27	32.18	31.93	29.41	28.50	31.64	27.77	27.75	27.57	27.28	27.53	27.83	27
28	30.47	32.19	31.93	29.02	28.48	31.17	28.19	27.54	27.54	27.36	27.41	27.75	28
29	30.33	32.18	31.93	28.85	28.43	30.88	28.30	27.58	27.25	27.28	27.46	27.75	29
30	30.08	32.23	31.92	28.85		32.81	27.98	27.44	27.28	27.12	27.37	27.72	30
31	29.87		31.79	29.08		33.35		27.46		27.13	27.43		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11-30-67	2030	32.24	4- 3-68	0420	34.34						
12- 6-67	0050	32.28									
3-25-68	1115	32.17									

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

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

TABLE B-10 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	13.79	15.29	15.33	14.17	13.40	14.22	13.16	10.29	9.64	9.50	9.54	10.31	1
2	13.80	15.17	15.37	14.19	13.33	14.05	13.52	10.25	9.77	9.38	9.60	10.31	2
3	13.84	14.96	15.24	14.25	13.17	13.49	13.70	10.33	9.88	9.40	9.61	10.22	3
4	13.88	14.87	15.04	14.41	12.80	13.16	13.31	10.35	9.75	9.42	9.76	10.17	4
5	13.93	14.75	14.92	14.59	12.70	13.40	13.09	10.55	9.73	9.42	9.90	10.10	5
6	13.96	14.63	15.13	14.72	12.65	13.65	12.92	10.66	9.86	9.42	9.84	10.22	6
7	14.03	14.52	15.15	14.78	12.76	13.66	12.53	10.57	9.88	9.38	9.76	10.30	7
8	14.08	14.69	15.23	14.49	12.67	13.88	12.24	10.53	9.83	9.38	9.70	10.45	8
9	14.10	14.75	15.23	14.45	12.73	13.97	11.90	10.43	9.98	9.37	9.63	10.48	9
10	13.70	14.84	15.20	14.73	13.11	14.14	11.50	10.38	10.08	9.38	9.68	10.30	10
11	13.32	14.93	14.99	14.82	13.30	13.60	11.15	10.48	9.95	9.38	9.83	10.21	11
12	13.30	14.96	14.90	14.71	13.21	13.41	10.93	10.64	9.80	9.37	9.83	10.35	12
13	13.30	14.86	15.02	14.59	12.94	13.62	10.89	10.77	9.72	9.42	9.75	10.39	13
14	13.28	14.70	14.88	14.30	12.82	13.68	10.89	10.96	9.80	9.51	9.74	10.41	14
15	13.30	14.82	15.01	14.05	12.86	13.62	11.00	10.93	9.76	9.66	9.70	10.52	15
16	13.54	14.85	15.23	13.91	12.70	13.74	10.70	10.77	9.68	9.62	9.71	10.58	16
17	13.50	14.78	15.16	13.80	12.54	13.81	10.52	10.67	9.82	9.56	9.68	10.44	17
18	13.50	14.67	15.02	13.78	12.43	14.13	10.57	10.60	9.70	9.44	10.00	10.38	18
19	13.58	14.81	14.96	13.75	12.37	14.06	10.39	10.58	9.67	9.33	10.13	10.27	19
20	13.78	14.83	14.96	13.67	12.35	14.55	10.36	10.66	9.45	9.32	10.18	10.25	20
21	14.04	14.85	14.78	13.62	12.68	14.64	10.43	10.47	9.60	9.36	10.31	10.28	21
22	14.36	15.10	14.78	13.39	13.71	14.66	10.60	10.41	9.54	9.58	10.50	10.35	22
23	14.47	15.00	14.79	13.00	14.28	14.48	10.59	10.34	9.68	9.56	10.56	10.44	23
24	14.27	14.81	14.63	13.24	15.08	14.11	10.60	10.44	9.81	9.46	10.43	10.45	24
25	14.39	14.63	14.45	13.34	15.10	13.85	10.66	10.42	9.59	9.38	10.43	10.45	25
26	14.80	14.84	14.36	13.36	14.93	13.63	10.56	10.33	9.44	9.42	10.60	10.50	26
27	15.15	14.72	14.32	13.30	14.74	13.51	10.46	10.40	9.47	9.47	10.60	10.62	27
28	15.23	14.72	14.35	13.13	14.44	13.24	10.61	10.21	9.55	9.50	10.48	10.51	28
29	14.91	15.09	14.32	12.97	14.29	12.70	10.66	10.00	9.43	9.60	10.58	10.53	29
30	14.74	15.16	14.30	12.95		12.84	10.51	9.90	9.44	9.49	10.44	10.57	30
31	15.20		14.23	13.33		13.15		9.73		9.43	10.27		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12- 2-67	0600	15.42									
2-24-68	2100	15.26									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12- 9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12- 9-50	JAN 24-FEB 25					
						JUN 25-OCT 28		1931	1959	5.06	USCG
						MAY 29-DATE		1959		0.00	USCG

Station located 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Records furnished by U. S. Geological Survey. Drainage area is approximately 13,540 square miles. This station equipped with DWR radio telemeter.

a Reflects present datum.

TABLE B-11

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 in Bulletin No. 130-66, Volume IV.

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-11

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

TABLE B-11 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM		CHANGE	
PAGE	MILE & BANK	NAME			FROM	TO
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

APPENDIX C

GROUND WATER MEASUREMENT

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 spring 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 550 wells for reporting of actual measurements.

This appendix presents ground water measurement data on these 550 wells for the period October 1, 1967, through September 30, 1968. 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

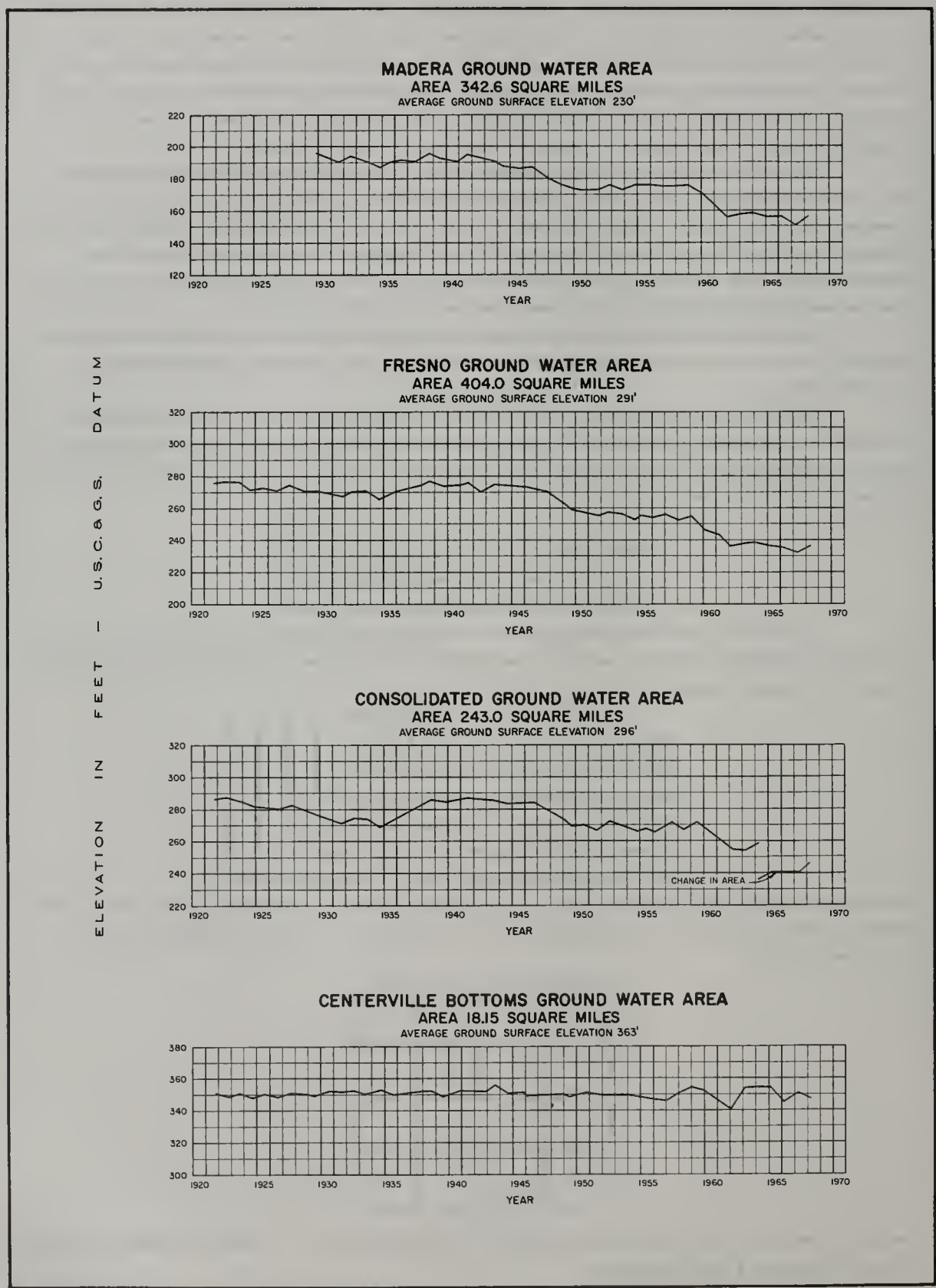
Base and Meridian (M) Mount Diablo (S) San Bernardino

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

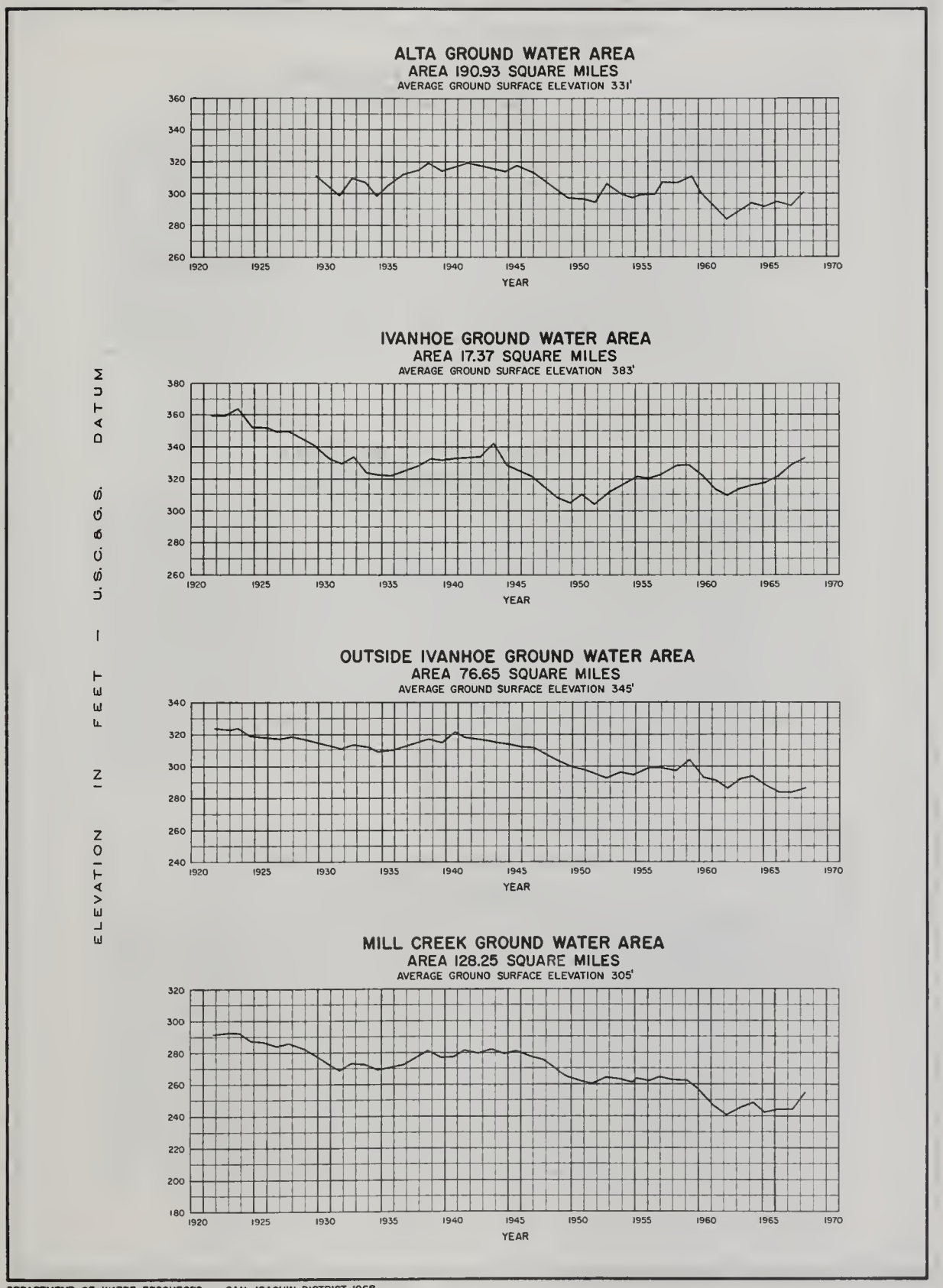
Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

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



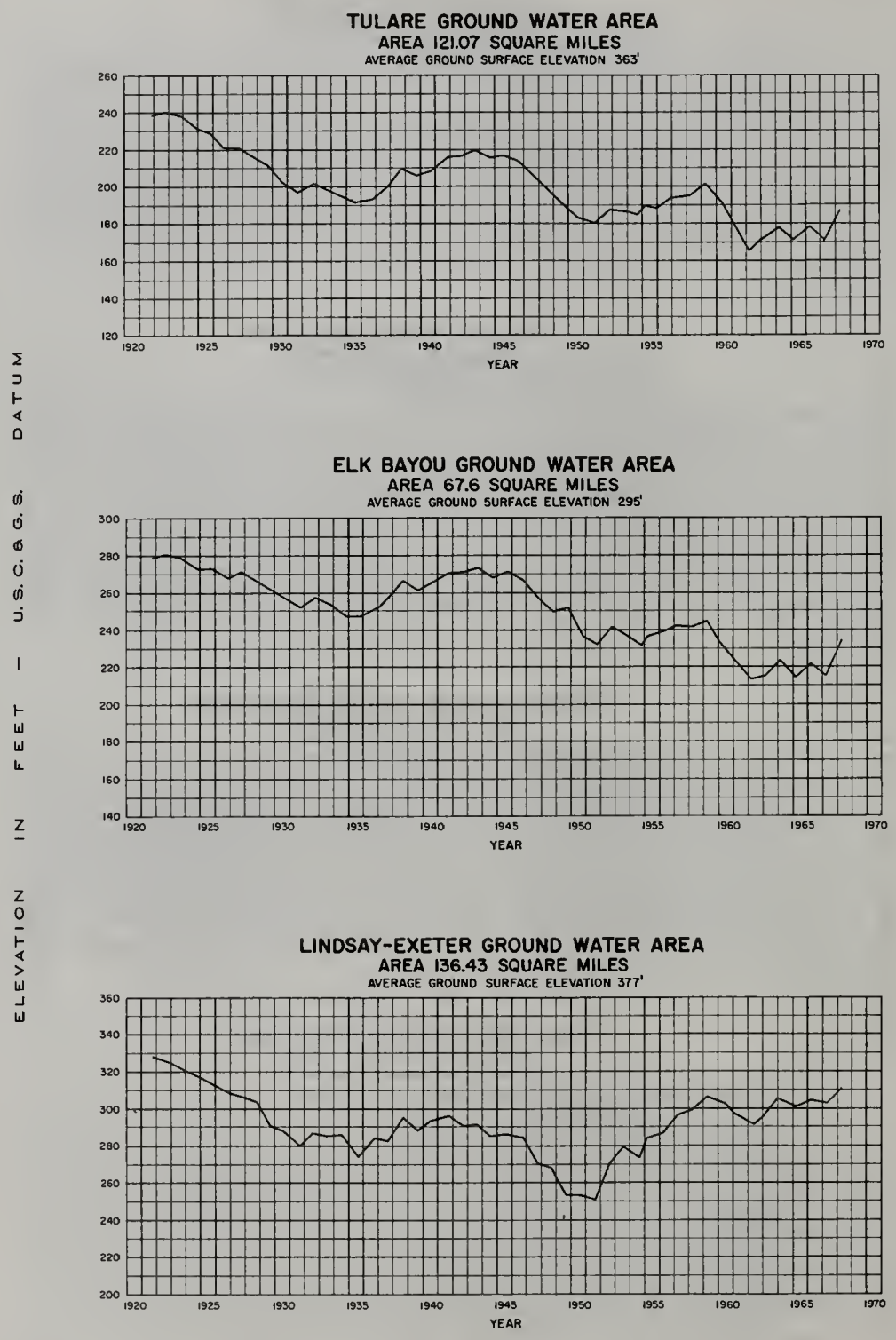
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



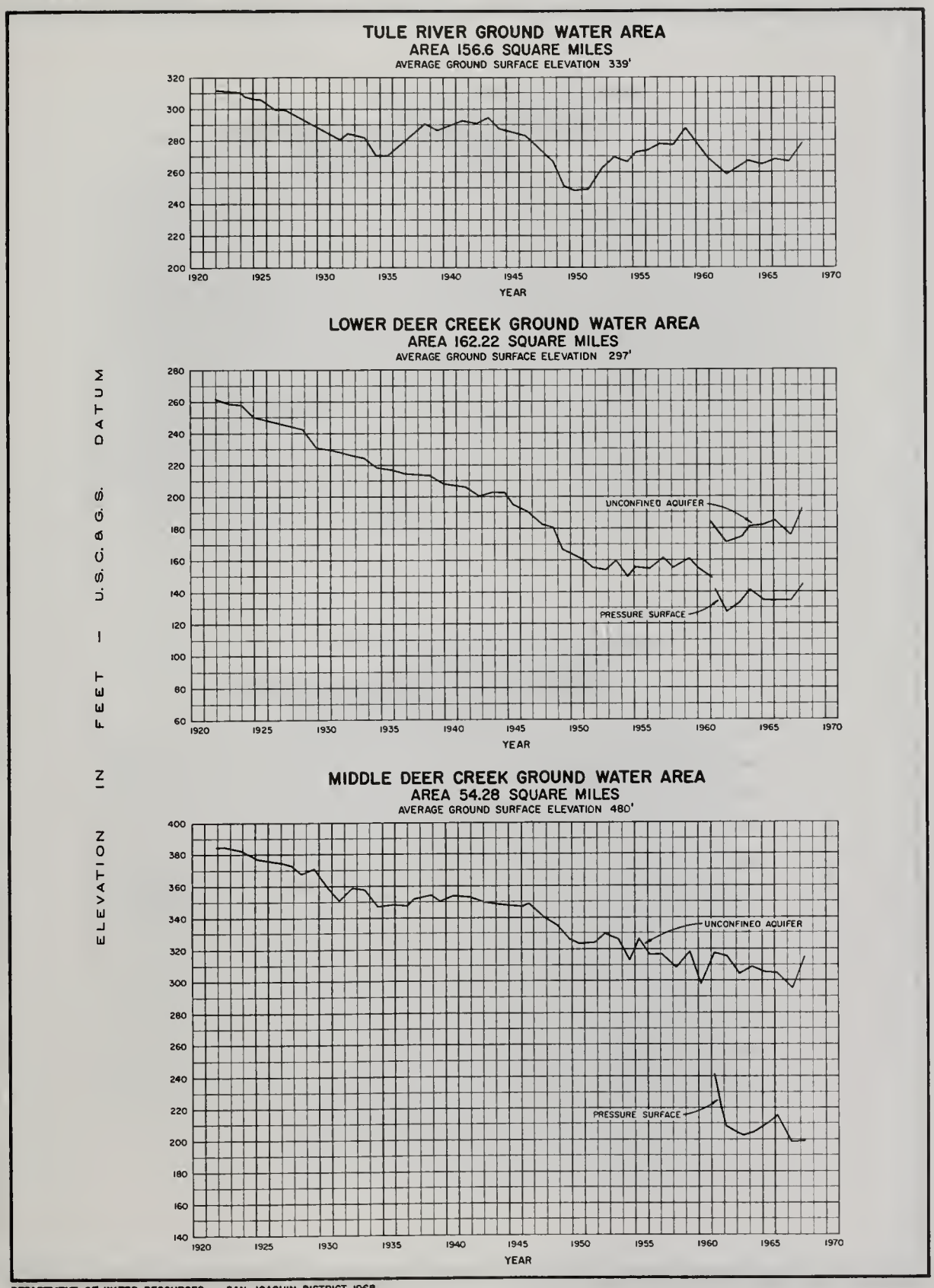
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



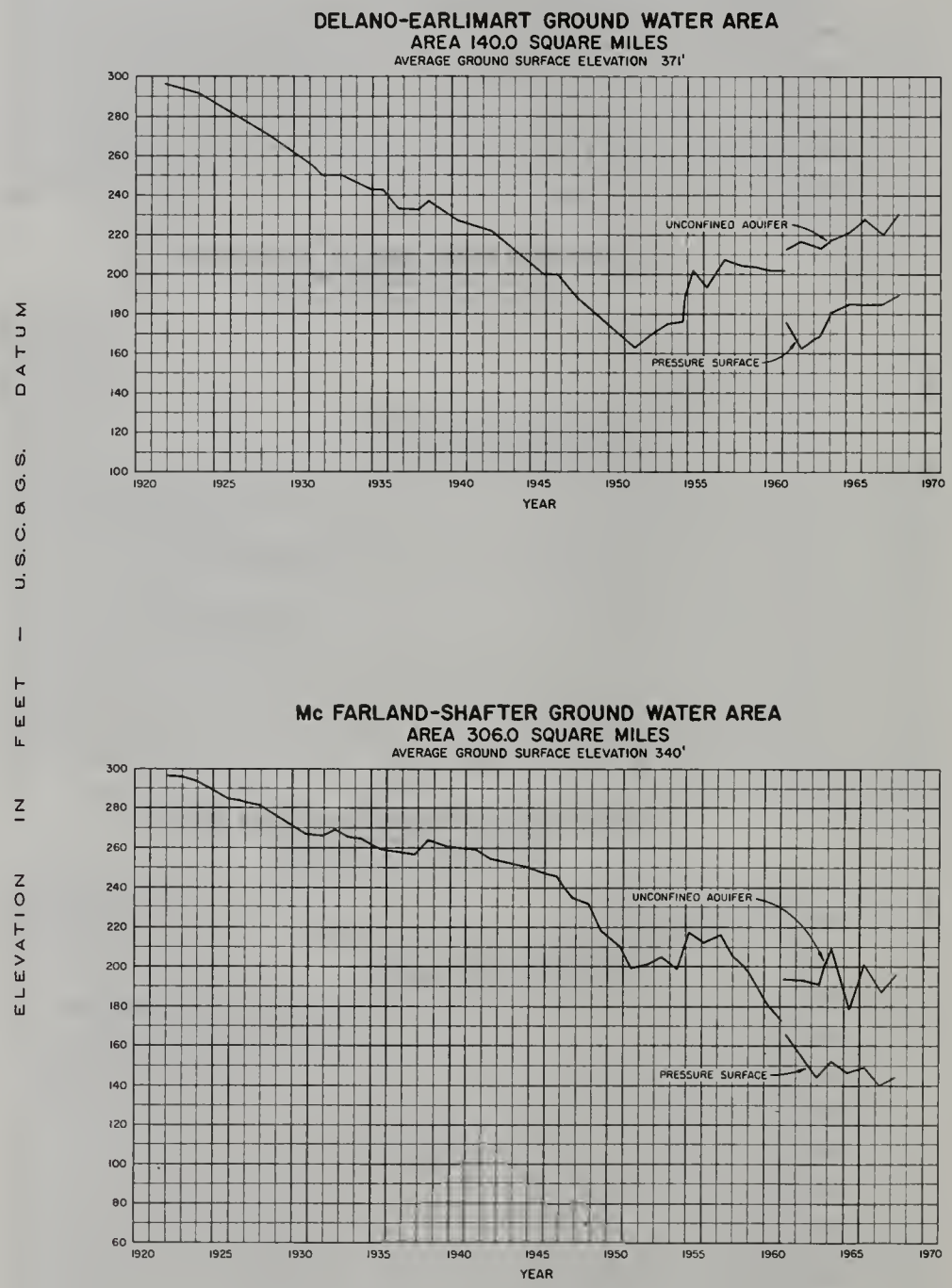
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



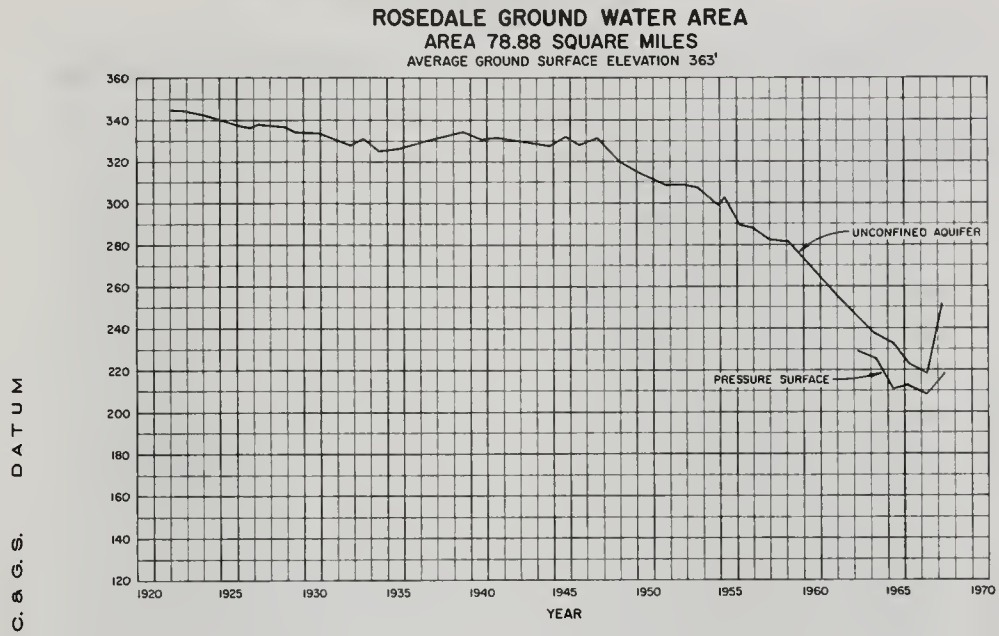
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

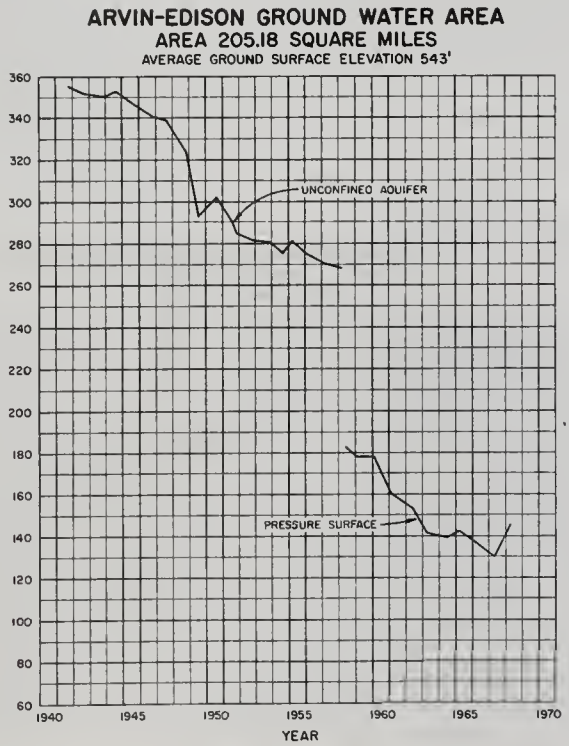
Figure C-I (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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

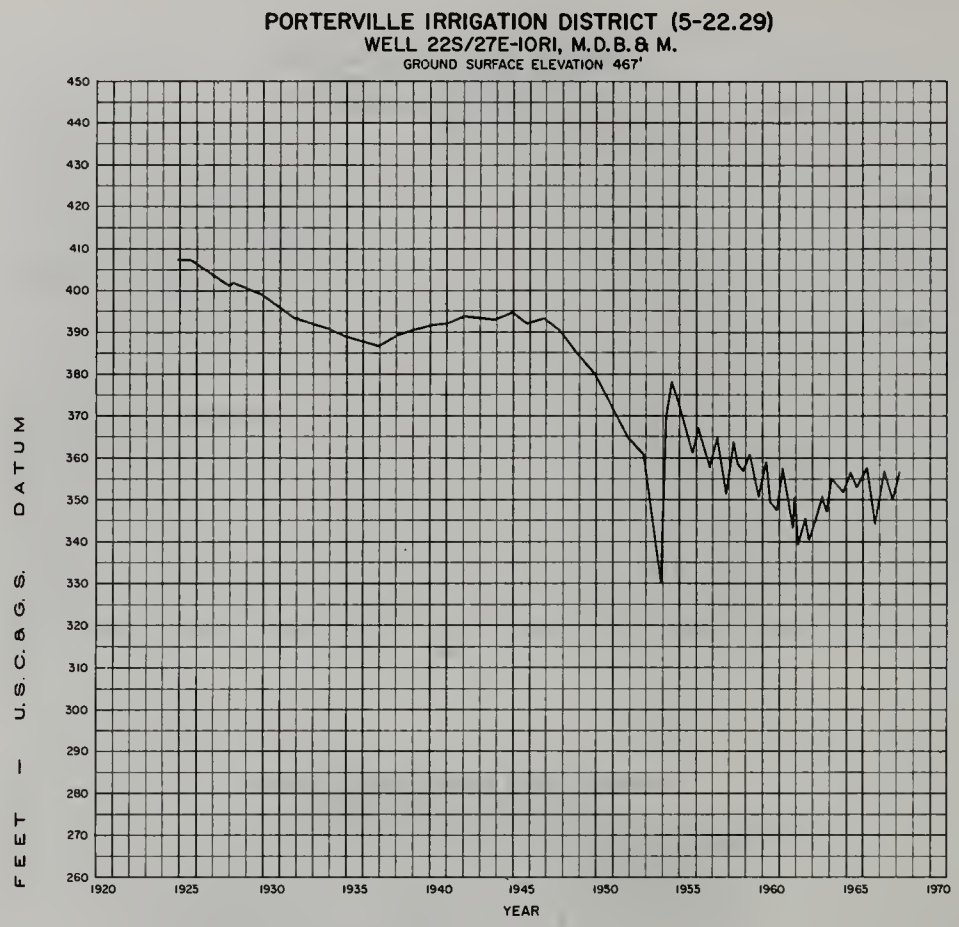


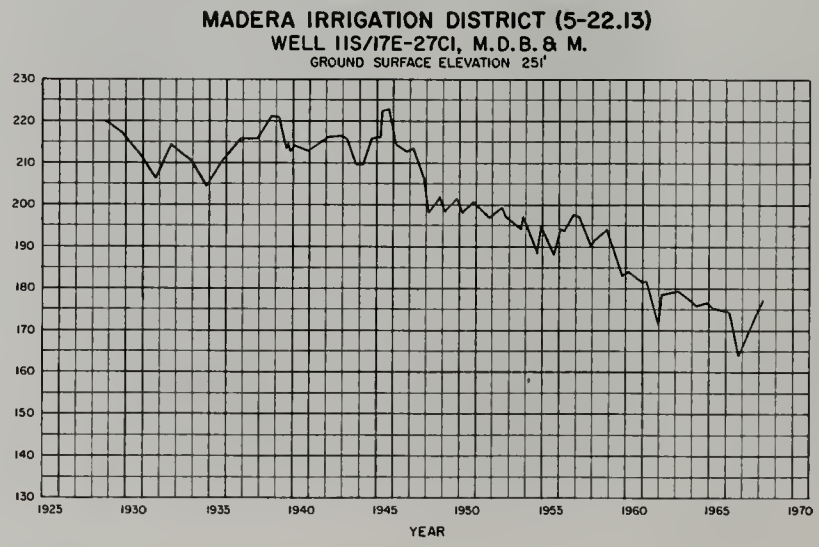


ELEVATION IN FEET — U.S.C.&G.S. DATUM

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

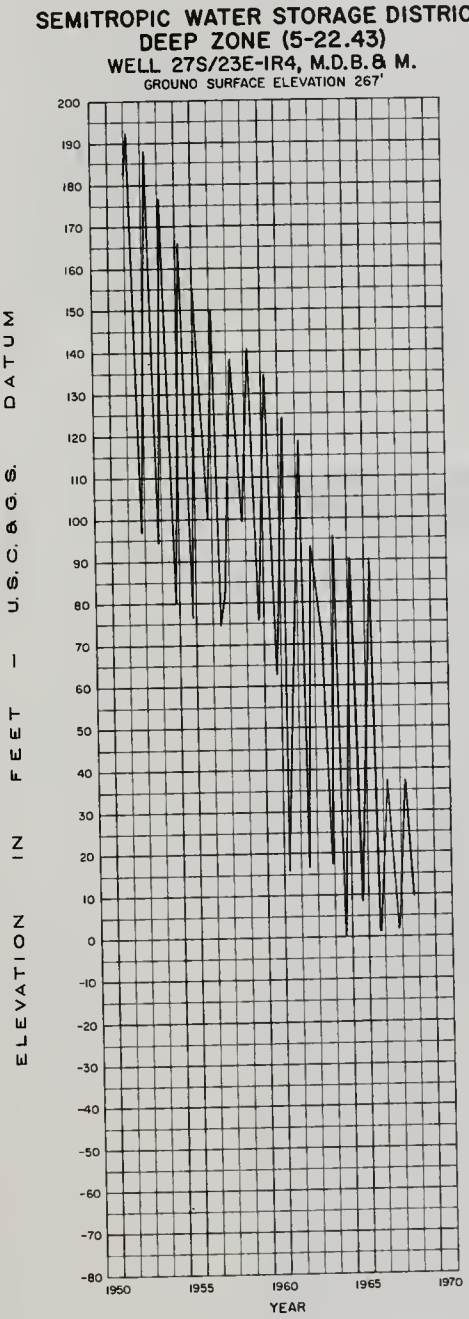
Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

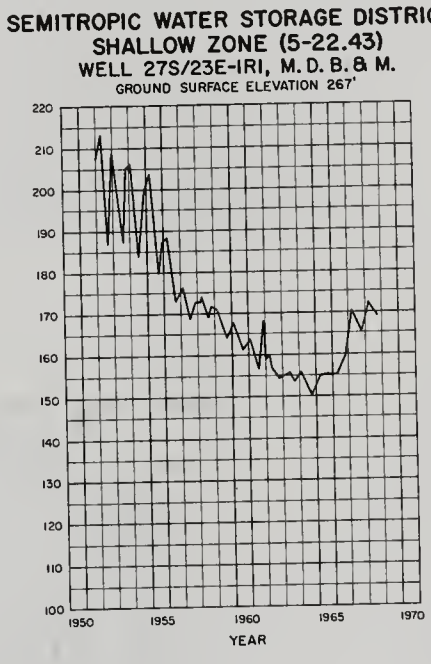


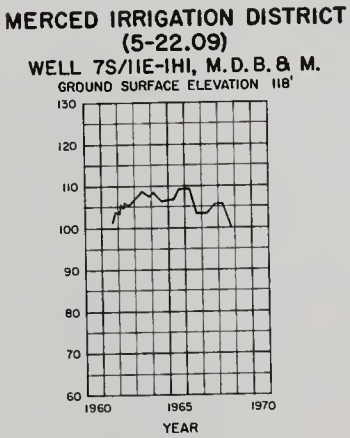


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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

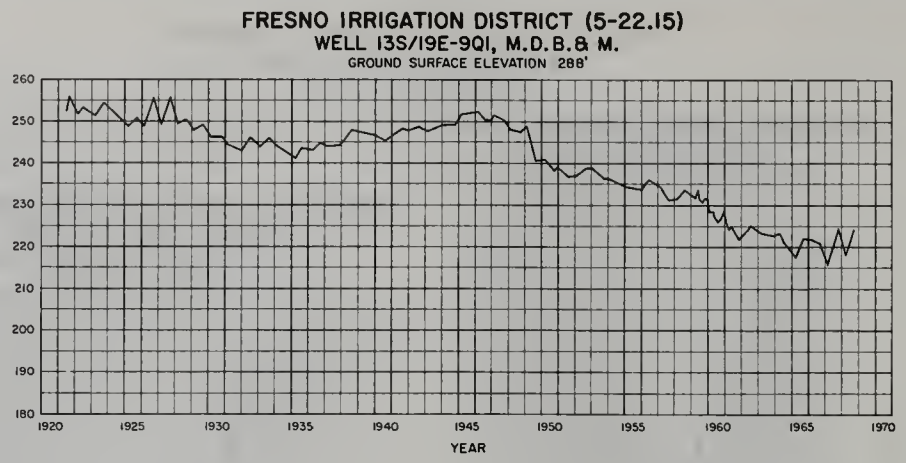


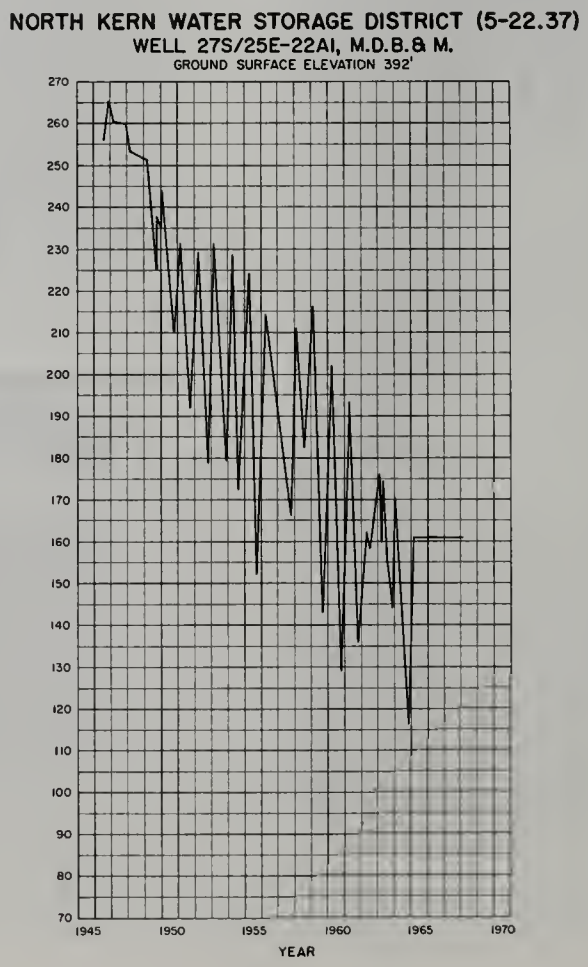




DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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

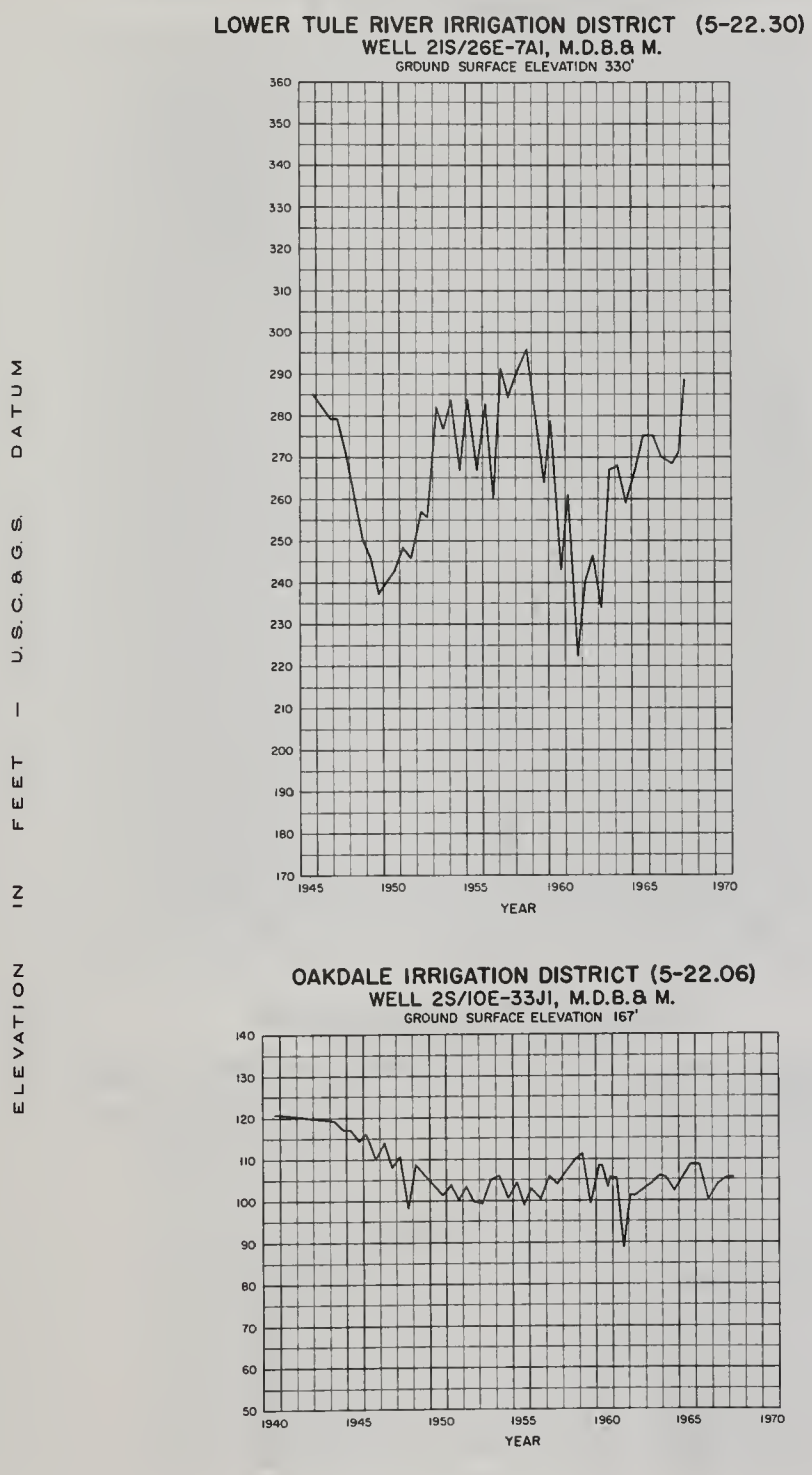




ELEVATION IN FEET — U.S.C.& G.S. DATUM

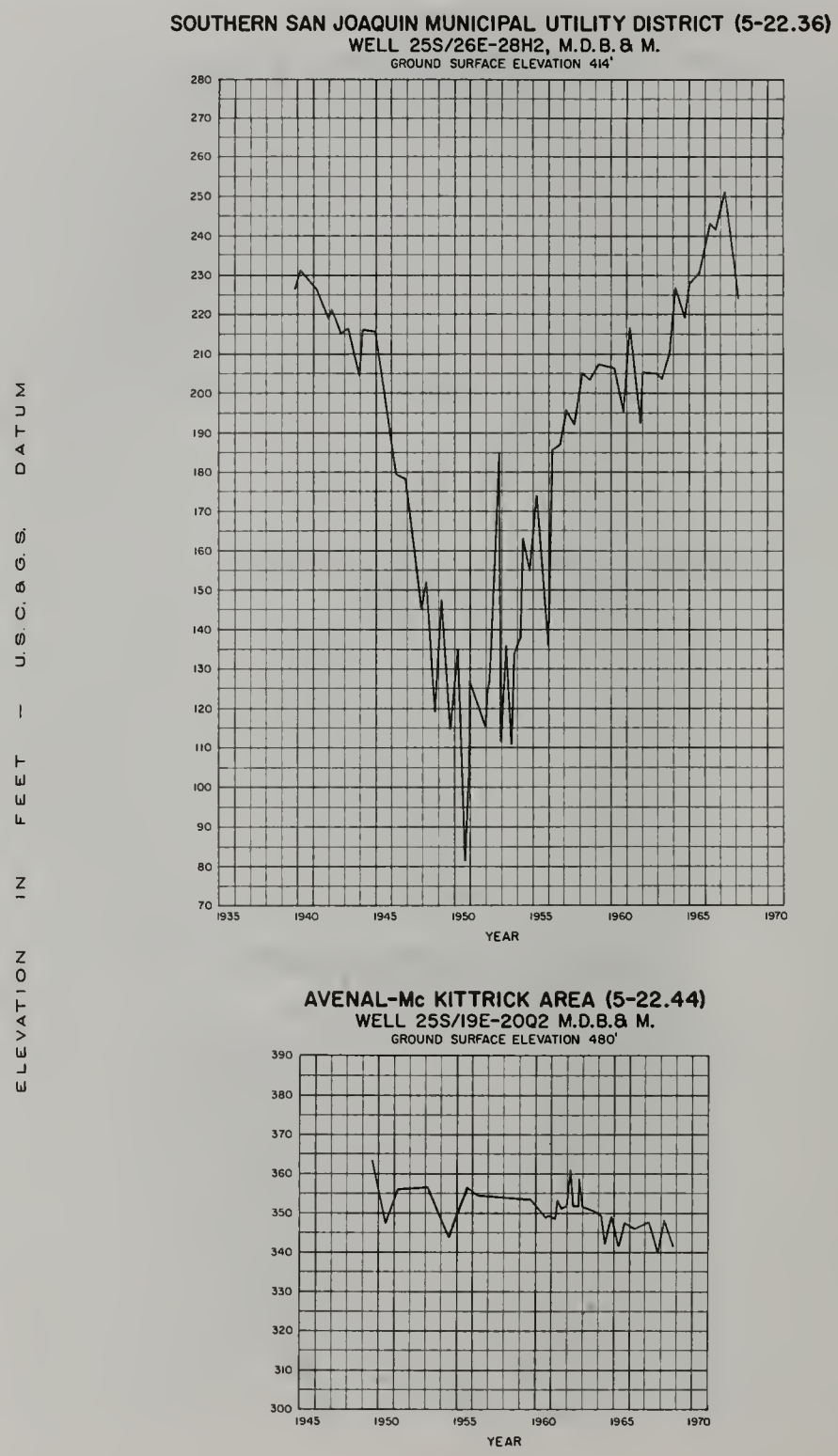
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



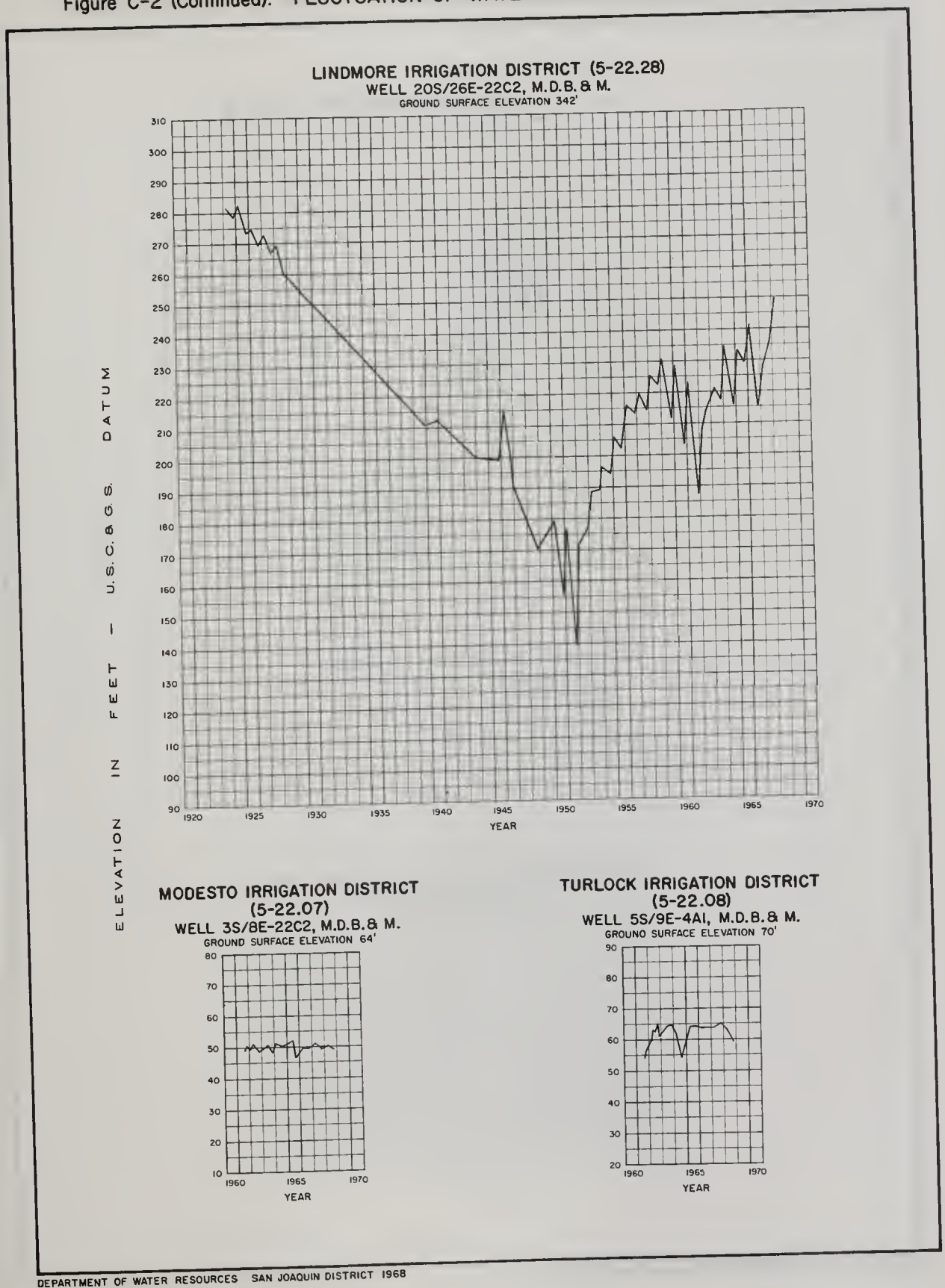
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



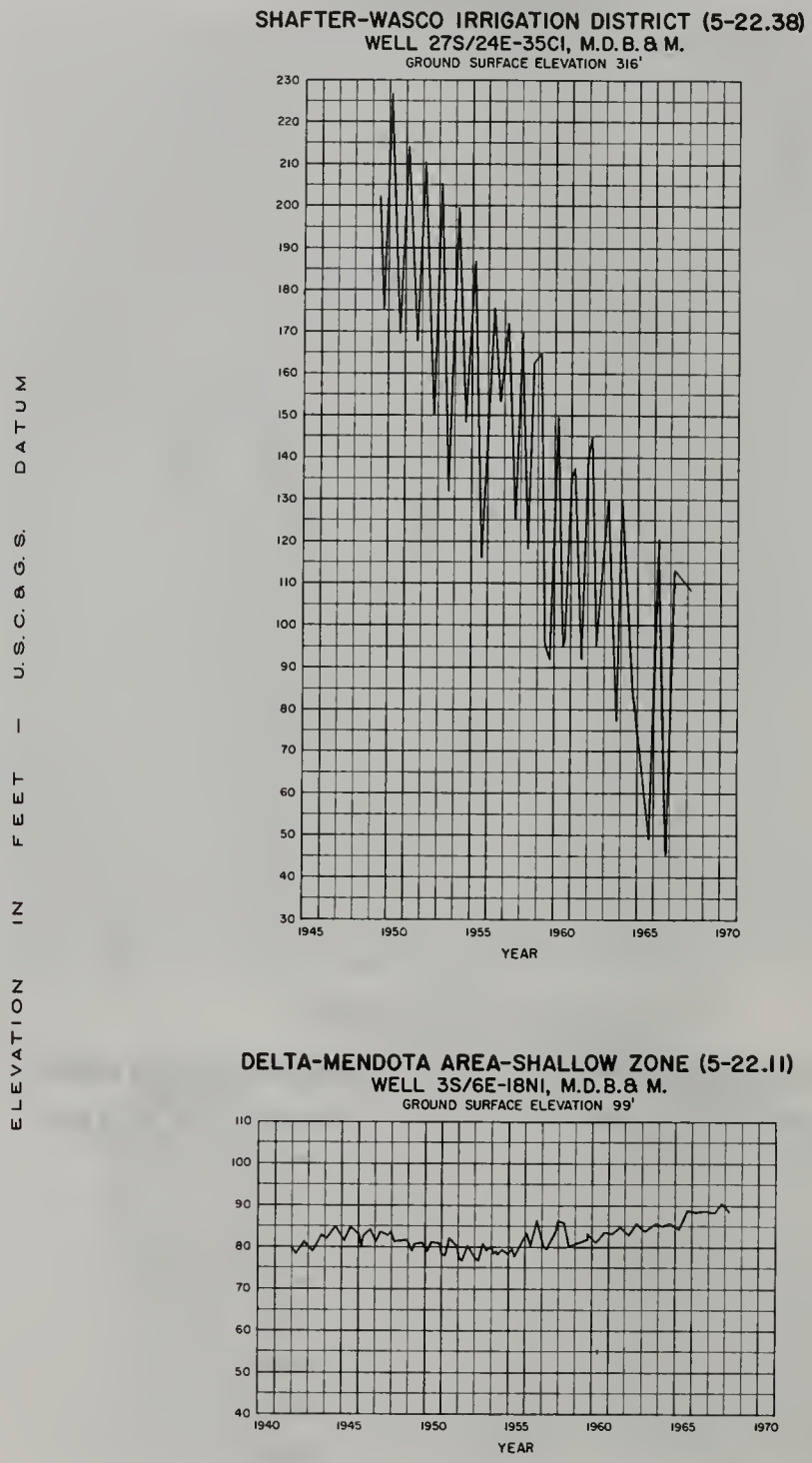
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



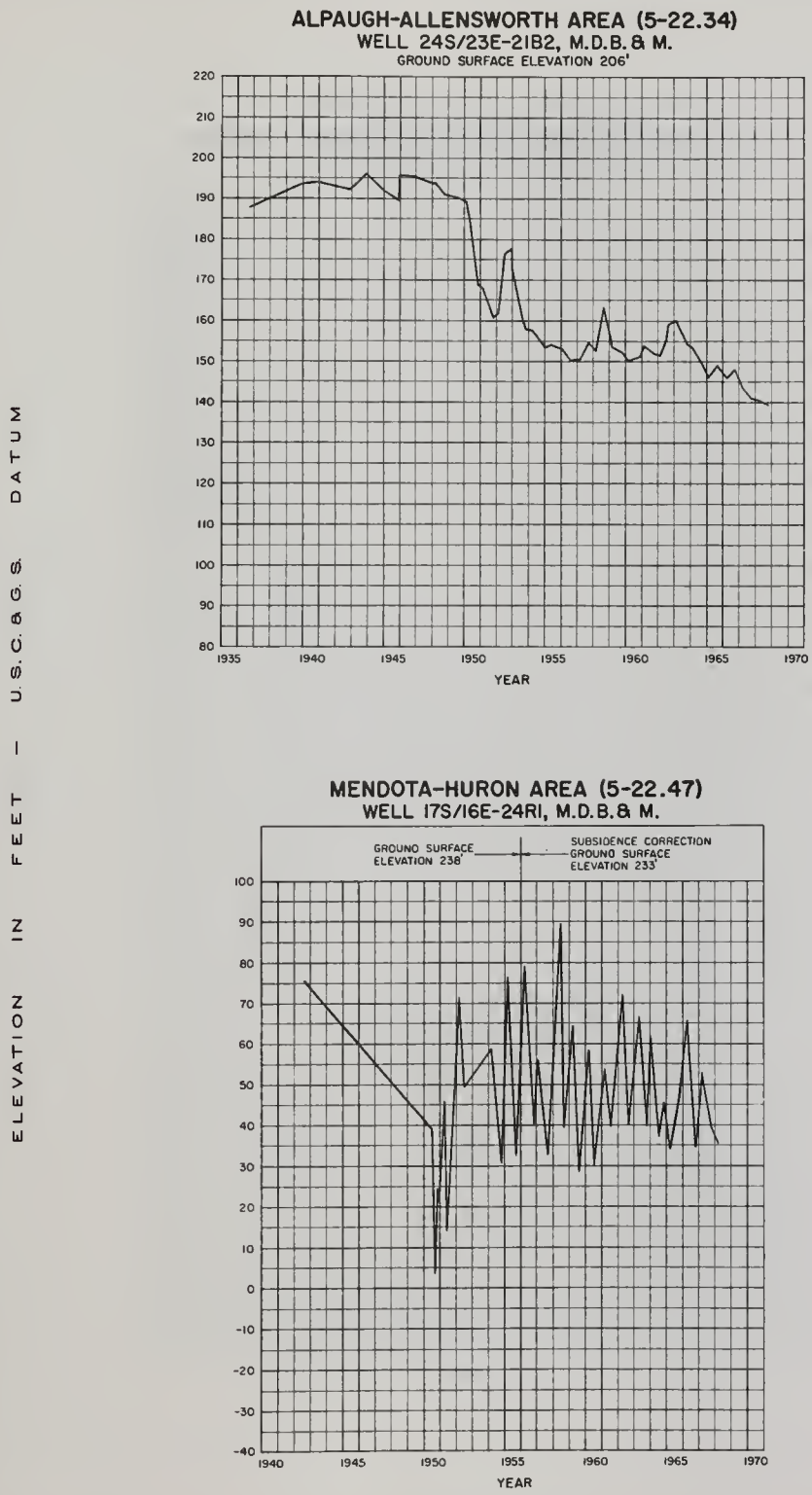
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



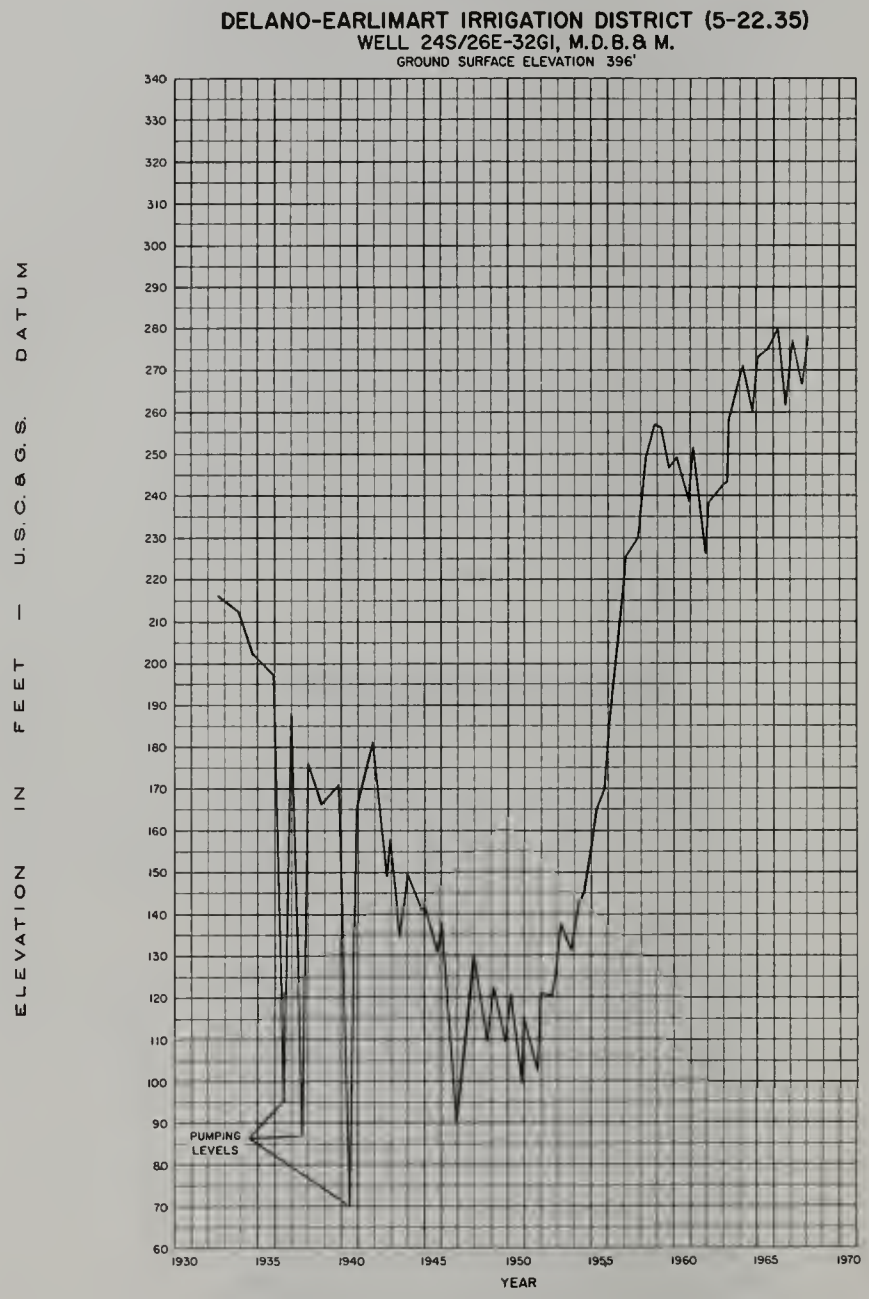
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

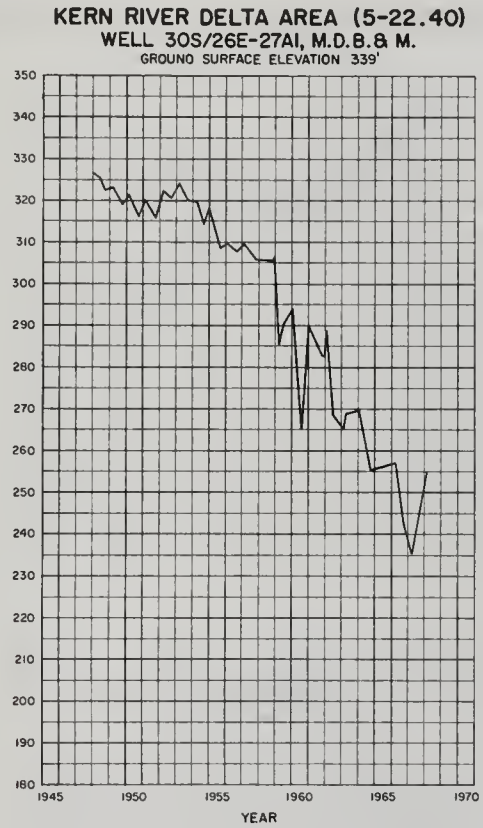
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

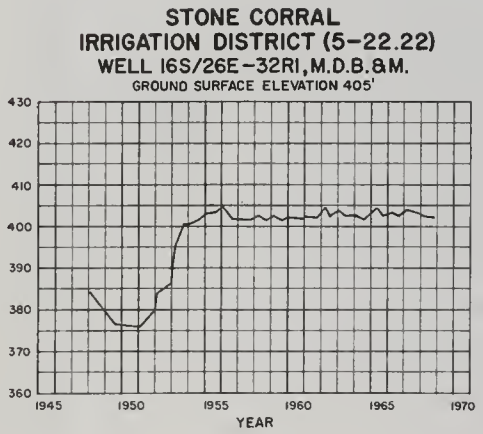


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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

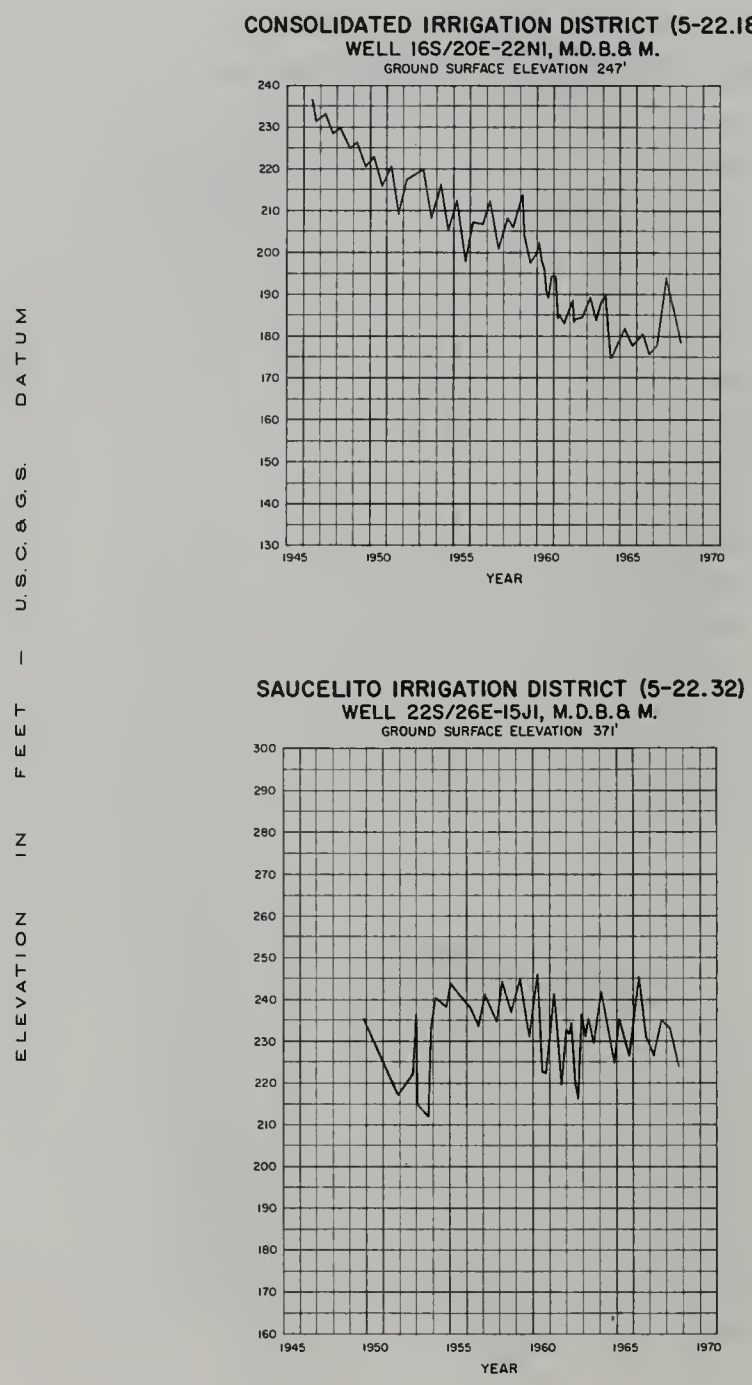
ELEVATION IN FEET — U.S.C.&G.S. DATUM





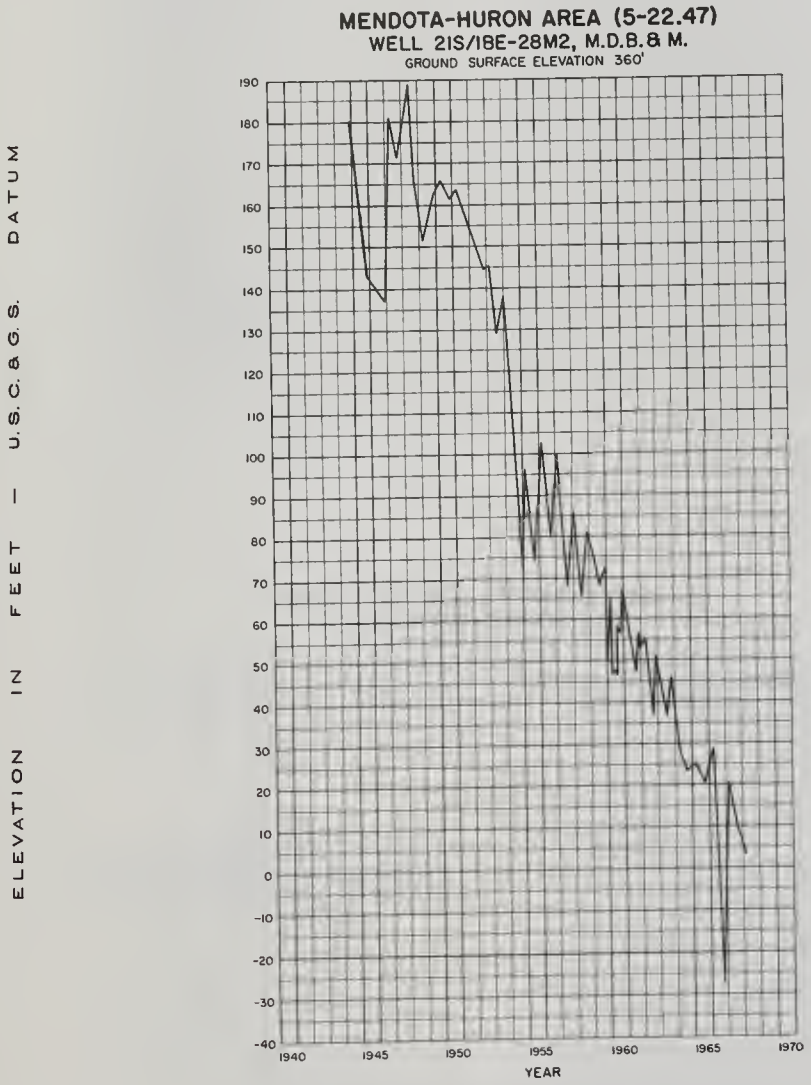
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



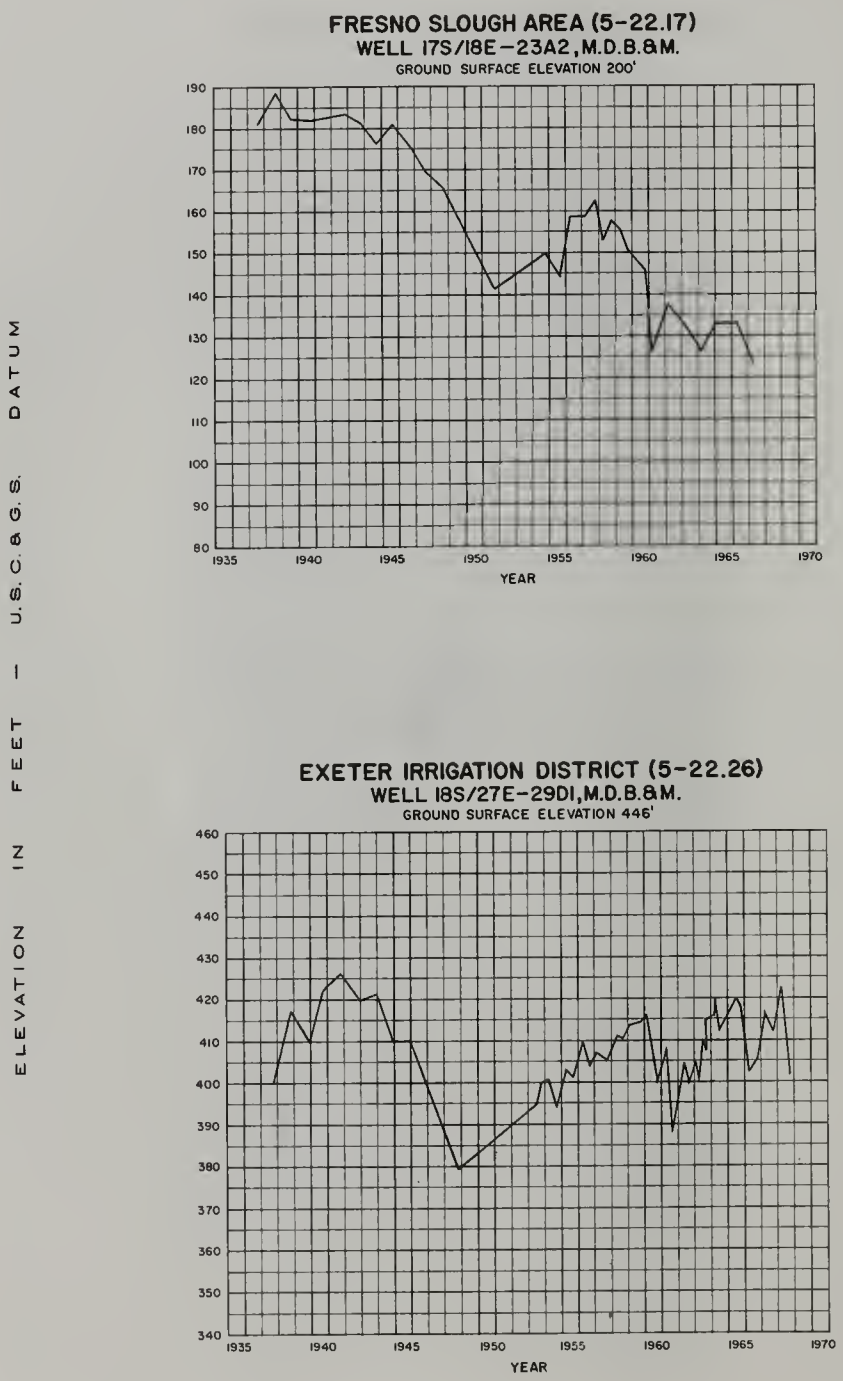
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



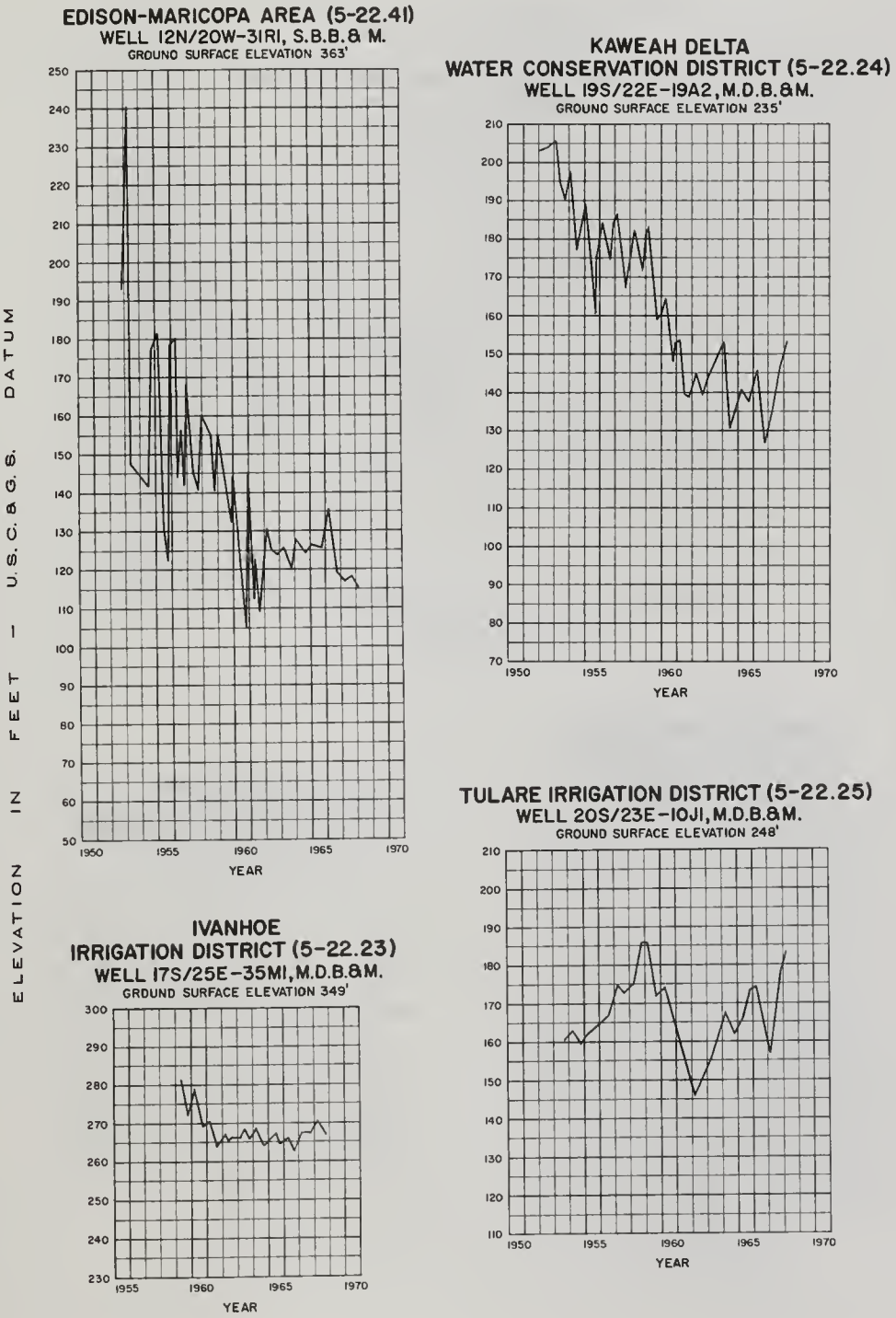
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



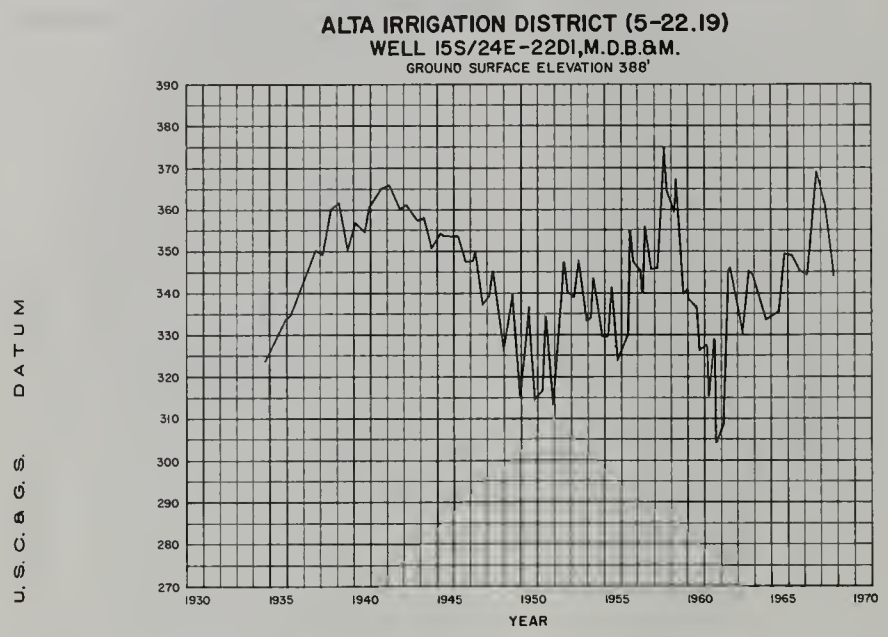
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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

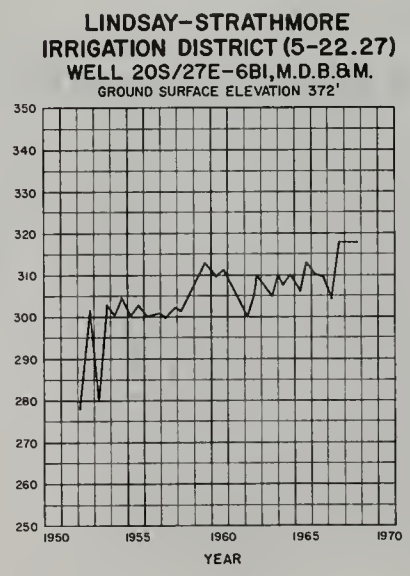


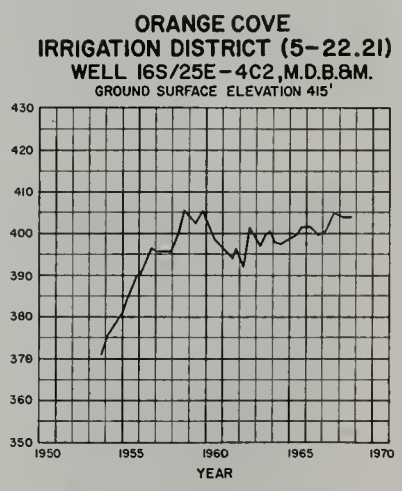
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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



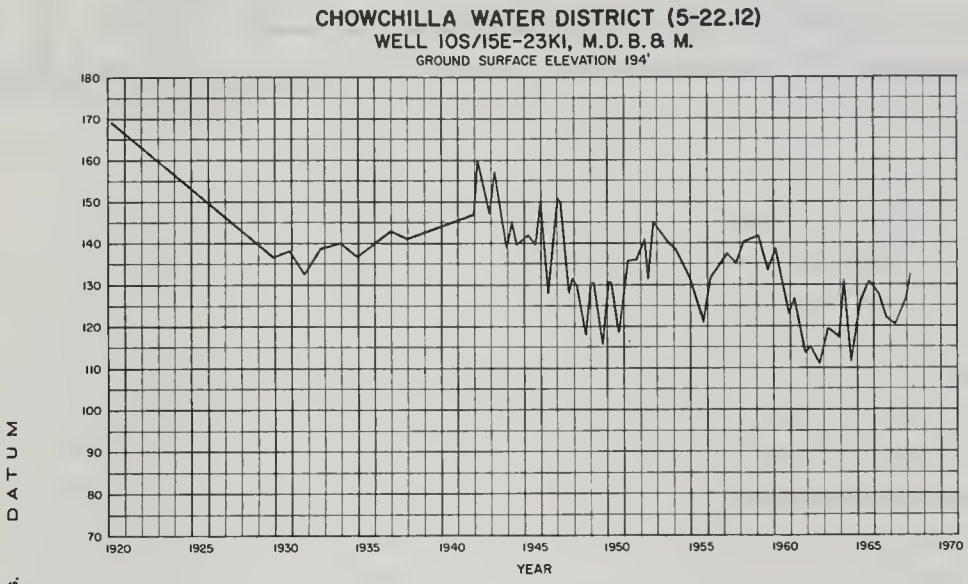
ELEVATION IN FEET — U.S.C.&G.S. DATUM

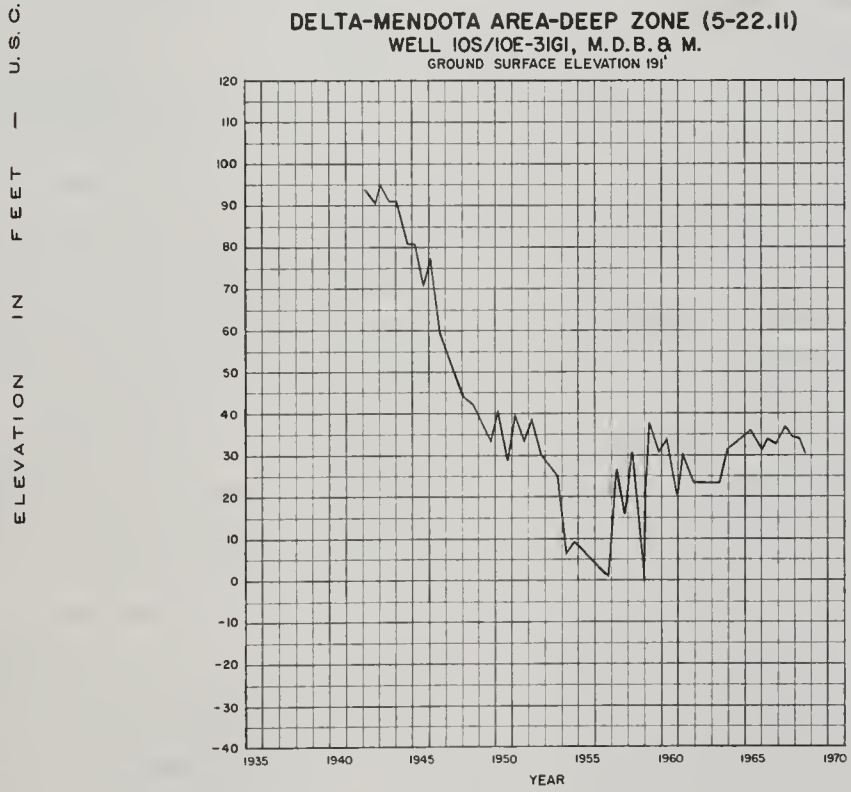




DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1968

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 1968

TABLE C-1

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1967 - Spring 1968

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a/]	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Tracy Area	5-22.04	13	- 1.0
Oakdale Irrigation District	5-22.06		+ 2.0
Modesto Irrigation District	5-22.07		+ 0.6
Turlock Irrigation District	5-22.08		+ 0.2
Merced Irrigation District	5-22.09		- 0.7
El Nido Irrigation District	5-22.10		- 3.6
Delta-Mendota Area	5-22.11	467	+ 1.0
Chowchilla Water District	5-22.12		+ 4.9
Madera Irrigation District	5-22.13		+ 5.9
West Chowchilla-Madera Area	5-22.14		+ 0.5
Fresno Irrigation District	5-22.15		+ 4.0
City of Fresno	5-22.16	58	+ 1.6
Fresno Slough Area	5-22.17		- 0.5
Consolidated Irrigation District	5-22.18		+ 8.0
Alta Irrigation District	5-22.19		+ 8.8
Lower Kings River Area	5-22.20		
Shallow Zone			+ 3.6
Deep Zone			+ 5.7
Orange Cove Irrigation District	5-22.21	95	+ 2.3
Stone Corral Irrigation District	5-22.22	9	- 0.5
Ivanhoe Irrigation District	5-22.23		+ 4.3
Kaweah-Delta Water Conservation District	5-22.24		+12.1
Tulare Irrigation District	5-22.25		+15.6
Exeter Irrigation District	5-22.26		+ 4.2
Lindsay-Strathmore Irrigation District	5-22.27	20	+ 4.9
Lindmore Irrigation District	5-22.28		+11.0
Porterville Irrigation District	5-22.29		+10.4
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			+15.2
Deep Zone			+19.1
Vandalia Irrigation District	5-22.31	4	+ 6.4
Saucelito Irrigation District	5-22.32		
Shallow Zone			+12.0
Deep Zone			+ 6.8
Pixley Irrigation District	5-22.33		
Shallow Zone			+12.1
Deep Zone			+ 8.7

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1967 - Spring 1968

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			+ 0.1
Deep Zone			+ 9.4
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			+ 5.9
Deep Zone			+ 8.6
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			+ 6.2
Deep Zone			+15.7
North Kern Water Storage District	5-22.37		
Shallow Zone			- 2.7
Deep Zone			+ 7.9
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone			+13.4
Deep Zone			+ 1.5
City of Bakersfield	5-22.39	21	- 2.4
Kern River Delta Area	5-22.40		
Shallow Zone			+13.9
Deep Zone			+ 3.9
Edison-Maricopa Area	5-22.41		
Deep Zone			+10.9
Buena Vista Water Storage District	5-22.42		+ 2.1
Semitropic Water Storage District	5-22.43		
Shallow Zone			+ 1.1
Deep Zone			- 8.1
Avenal-McKittrick Area	5-22.44	22	+ 0.9
Tulare Lake-Lost Hills Area	5-22.45	9	+37.6
Corcoran Irrigation District	5-22.46		
Shallow Zone			- 0.5
Deep Zone			+31.8
Mendota-Huron Area	5-22.47		
Deep Zone			- 3.4[b]
Poso Soil Conservation District	5-22.48		+ 1.4
San Luis Canal Company	5-22.49		- 0.9
Terra Bella Irrigation District	5-22.50	3	- 0.4
Merced Bottoms	5-22.54		- 0.6
Centerville Bottoms Area	5-22.64		+ 1.7
Garfield Water District	5-22.65	21	+ 6.3

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1967-- Spring 1968

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a]	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Kings County Water District	5-22.66		
Shallow Zone			+ 8.9
Deep Zone			+ 7.5
Pleasant Valley Area	5-22.69	9	- 5.4

a/ Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.
b/ Average change determined from water level measurements made during December 1966 and December 1967

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1968
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 1951-68[b] in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1[c]	- 15.6
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 16.6
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 4.8
Centerville Bottoms	18.1	-----	+ 1.0	- 1.9
Alta	190.9	Alta Irrigation District	- 17.2[c]	+ 7.1
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 29.8
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	- 7.3
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	- 5.4
Tulare	121.1	Tulare Irrigation District	- 59.1	+ 7.8
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 2.7
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 64.1
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 34.7
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	+ 7.5[e] + 3.1[f]
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 12.3[e] - 40.8[f]
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 19.3[e] + 12.6[f]
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter-Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	+ 3.9[e] - 21.4[f]
Rosedale	78.9	-----	- 36.3	- 44.5 - 11.4[g]
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9[d]	- 15.2[f]

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.
b/ Fall 1951 to spring 1968.
c/ Fall 1929 to fall 1951.
d/ Fall 1941 to fall 1951.
e/ Unconfined aquifer, spring 1961 to spring 1968, only one aquifer reported prior to 1961.
f/ Pressure surface, spring 1961 to spring 1968, only one aquifer reported prior to 1961.
g/ Pressure surface, spring 1963 to spring 1968, only one aquifer reported prior to 1963.

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 141.

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

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
5000	U. S. Geological Survey
5001*	U. S. Bureau of Reclamation
5050	Department of Water Resources
5121	Kern County Water Agency
5129	Kaweah Delta Water Conservation District
5200	City of Fresno
5518	South San Joaquin Irrigation District
5520	Oakdale Irrigation District
5521	Modesto Irrigation District
5524	Turlock Irrigation District
5525	Merced Irrigation District
5529	Poso Soil Conservation District
5631	Fresno Irrigation District
5636	Consolidated Irrigation District
5637	Alta Irrigation District
5640	Buena Vista Water Storage District
5700	Kern County Land Company

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

TABLE C-3

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL VALLEY REGION					
SAN JOAQUIN VALLEY			5-22.00		
TRACY AREA			5-22.04		
1S/05E-31R02 M	4.0	10-02-67	3.3	0.7	5050
		11-01-67	3.8	0.2	
		12-06-67	3.6	0.4	
		1-05-68	3.5	0.5	
		2-05-68	2.9	1.1	
		3-01-68	2.6	1.4	
		4-05-68	2.9	1.1	
		5-01-68	3.1	0.9	
		6-05-68	2.8	1.2	
		7-08-68	3.1	0.9	
		8-06-68	3.5	0.5	
		9-03-68	3.6	0.4	
2S/05E-15N02 M	32.0	10-02-67	11.9	20.1	5050
		11-01-67	11.8	20.2	
		12-06-67	10.1	21.9	
		1-02-68	11.0	21.0	
		2-05-68	9.9	22.1	
		3-01-68	10.3	21.7	
		4-05-68	10.8	21.2	
		5-01-68	11.8	20.2	
		6-03-68	10.6	21.4	
		7-08-68	10.7	21.3	
		8-06-68	11.3	20.7	
		9-03-68	11.5	20.5	
3S/06E-06N01 M	77.2	10-02-67	11.5	65.7	5050
		11-01-67	9.8	67.4	
		12-06-67	9.2	68.0	
		1-05-68	9.8	67.4	
		2-05-68	9.9	67.3	
		3-01-68	9.8	67.4	
		4-05-68	9.9	67.3	
		5-01-68	9.9	67.3	
		6-05-68	8.8	68.4	
		7-08-68	8.1	69.1	
		8-06-68	8.2	69.0	
		9-03-68	8.8	68.4	
OAKDALE IRRIGATION DISTRICT			5-22.06		
1S/09E-16J01 M	119.0	11-01-67	60.3	58.7	5520
		11-30-67	60.0	59.0	
		1-02-68	59.9	59.1	
		1-31-68	59.6	59.4	
		2-29-68	59.8	59.2	
		3-29-68	59.6	59.4	
		4-30-68	61.4	57.6	
		5-31-68	61.5	57.5	
		7-01-68	66.0	53.0	
		8-01-68	67.6	51.4	
		9-03-68	61.4	57.6	
1S/09E-36A01 M	145.0	3-00-68	50.2	94.8	5520
1S/10E-19L01 M	146.5	11-01-67	50.8	95.7	5520
		11-30-67	51.1	95.4	
		1-02-68	51.4	95.1	
		1-31-68	51.6	94.9	
		2-29-68	51.6	94.9	
		3-29-68	51.9	94.6	
		4-30-68	52.2	94.3	
		5-31-68	52.5	94.0	
		7-01-68	NM-1		
		8-01-68	NM-1		
		9-03-68	NM-1		
1S/10E-28J01 M	193.0	3-00-68	81.4	111.6	5520
2S/09E-26F01 M	132.0	11-01-67	52.4	79.6	5520
		11-30-67	51.5	80.5	
		1-02-68	51.4	80.6	
		1-31-68	52.0	80.0	
		2-29-68	52.5	79.5	
		3-29-68	NM-1		
		4-30-68	NM-1		
		5-31-68	NM-1		
		7-01-68	NM-1		
		8-01-68	NM-1		
		9-03-68	NM-1		
2S/10E-04H01 M	185.5	11-01-67	76.3	109.2	5520
		11-30-67	75.8	109.7	
		1-02-68	75.3	110.2	
		1-31-68	75.4	110.1	
		2-29-68	75.6	109.9	
		3-29-68	75.6	109.9	
		4-30-68	77.1	108.4	
		5-31-68	NM-1		
		7-01-68	NM-1		
		8-01-68	NM-1		
		9-03-68	NM-1		
2S/10E-33J01 M	165.0	3-00-68	72.0	93.0	5520
2S/11E-29B01 M	218.0	11-01-67	94.0	124.0	5520
		11-30-67	92.1	125.9	
		1-02-68	91.2	126.8	
		1-31-68	90.7	127.3	
		2-29-68	90.4	127.6	
		3-29-68	90.2	127.8	
		4-30-68	92.8	125.2	
		5-31-68	94.5	123.5	
		7-01-68	96.9	121.1	
		8-01-68	97.7	120.3	
		9-03-68	98.6	119.4	
OAKDALE IRRIGATION DISTRICT			5-22.06		
2S/11E-31N01 M	192.0	3-00-68	74.1	117.9	5520
2S/12E-31K01 M	190.0	3-00-68	41.5	148.5	5520
3S/10E-15A01 M	152.0	11-01-67	49.6	102.4	5520
		11-30-67	47.7	104.3	
		1-02-68	46.8	105.2	
		1-31-68	46.4	105.6	
		2-39-68	46.1	105.9	
		3-29-68	45.9	106.1	
		4-30-68	47.7	104.3	
		5-31-68	49.9	102.1	
		7-01-68	NM-1		
		8-01-68	NM-1		
		9-03-68	55.7	96.3	
3S/11E-18D01 M	162.0	3-00-68	54.0	108.0	5520
MODESTO IRRIGATION DISTRICT			5-22.07		
2S/08E-25P01 M	94.0	3-03-68	34.6	59.4	5521
2S/09E-30F01 M	93.0	10-04-67	24.4	68.6	5050
		11-03-67	26.1	66.9	
		12-05-67	26.9	66.1	
		1-02-68	27.4	65.6	
		2-05-68	28.4	64.6	
		3-01-68	28.9	64.1	
		4-05-68	29.2	63.8	
		5-01-68	27.5	65.5	
		6-06-68	28.9	64.1	
		7-08-68	28.5	64.5	
		8-06-68	27.9	65.1	
		9-03-68	28.8	64.2	
2S/09E-31G01 M	100.3	3-03-68	29.7	70.6	5521
3S/07E-12C01 M	47.0	10-04-67	5.9	41.1	5050
		11-03-67	7.2	39.8	
		12-05-67	8.7	38.3	
		1-02-68	9.1	37.9	
		2-05-68	9.1	37.9	
		3-01-68	9.1	37.9	
		4-05-68	9.2	37.8	
		5-01-68	8.2	38.8	
		6-06-68	8.7	38.3	
		7-08-68	8.5	38.5	
		8-06-68	6.6	40.4	
		9-03-68	6.7	40.3	
3S/07E-35A02 M	40.0	10-02-67	4.7	35.3	5050
		11-01-67	3.0	37.0	
		12-06-67	5.8	34.2	
		1-02-68	6.4	33.6	
		2-05-68	6.5	33.5	
		3-01-68	6.3	33.7	
		4-05-68	7.6	32.4	
		5-01-68	5.0	35.0	
		6-03-68	5.3	34.7	
		7-08-68	5.8	34.2	
		8-06-68	5.1	34.9	
		9-03-68	5.2	34.8	
3S/08E-03A02 M	73.0	10-04-67	19.2	53.8	5050
		11-03-67	19.0	54.0	
		12-05-67	19.5	53.5	
		1-02-68	19.8	53.2	
		2-05-68	20.2	52.8	
		3-01-68	20.2	52.8	
		4-05-68	20.7	52.3	
		5-01-68	22.6	50.4	
		6-06-68	23.1	49.9	
		7-08-68	23.9	49.1	
		8-06-68	24.4	48.6	
		9-03-68	25.1	47.9	
3S/08E-22C02 M	64.0	10-02-67	14.4	49.6	5050
		11-01-67	16.1	47.9	
		12-06-67	15.7	48.3	
		1-02-68	14.0	50.0	
		2-05 68	13.9	50.1	
		3-01-68	13.8	50.2	
		4-05-68	13.1	50.9	
		5-01-68	13.3	50.7	
		6-03-68	13.1	50.9	
		7-08-68	13.6	50.4	
		8-06-68	14.1	49.9	
		9-03-68	15.0	49.0	
3S/08E-24C02 M	74.0	3-03-68	22.7	51.3	5521
3S/09E-08D01 M	92.5	3-03-68	26.1	66.4	5521
3S/09E-21A01 M	99.2	3-03-68	39.5	59.7	5521
3S/09E-26F01 M	100.0	10-02-67	43.5	56.5	5050
		11-03-67	42.6	57.4	
		12-05-67	44.2	55.8	
		1-02-68	43.2	56.8	
		2-01-68	42.9	57.1	
		3-05-68	43.6	56.4	
		4-01-68	42.8	57.2	
		5-03-68	43.4	56.6	
		6-03-68	44.2	55.8	
		7-08-68	44.5	55.5	
		8-07-68	45.2	54.8	
		9-05-68	45.3	54.7	
3S/09E-30P01 M	82.5	3-03-68	NM-0		5521

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MODESTO IRRIGATION DISTRICT			5-22.07		
3S/10E-06G01 M	133.1	3-03-68	33.5	99.6	5521
3S/10E-29K01 M	119.2	3-03-68	45.1	74.1	5521
3S/10E-32G01 M	123.0	3-03-68	55.8	67.2	5521
3S/10E-33E01 M	120.0	10-02-67	53.4	66.6	5050
		11-03-67	52.7	67.3	
		12-05-67	53.2	66.8	
		1-02-68	53.3	66.7	
		2-01-68	53.9	66.1	
		3-05-68	54.3	65.7	
		4-01-68	55.0	65.0	
		5-03-68	57.7	62.3	
		6-03-68	60.0	60.0	
		7-08-68	58.6	61.4	
		8-07-68	59.2	60.8	
		9-04-68	59.2	60.8	
4S/08E-03F01 M	63.0	3-03-68	16.9	46.1	5521
TURLOCK IRRIGATION DISTRICT			5-22.08		
4S/08E-22R01 M	55.0	10-02-67	6.2	48.8	5050
		11-02-67	7.0	48.0	
		12-05-67	7.5	47.5	
		1-02-68	7.7	47.3	
		2-01-68	8.6	46.4	
		3-05-68	8.6	46.4	
		4-01-68	8.7	46.3	
		5-03-68	8.0	47.0	
		6-03-68	8.4	46.6	
		7-08-68	8.5	46.5	
		8-07-68	7.6	47.4	
		9-05-68	7.0	48.0	
4S/08E-27D01 M	55.0	3-05-68	9.5	45.5	5524
4S/09E-21A02 M	82.0	2-00-68	NM-0		5524
4S/10E-21R01 M	109.0	3-05-68	9.9	99.1	5524
4S/11E-29N01 M	131.0	3-05-68	DRY		5524
4S/11E-31R01 M	128.6	3-05-68	12.1	116.5	5524
5S/08E-01N01 M	53.0	3-05-68	7.2	45.8	5524
5S/08E-10A01 M	49.7	3-05-68	12.6	37.1	5524
5S/09E-04A01 M	70.0	10-02-67	4.8	65.2	5050
		11-03-67	6.7	63.3	
		12-05-67	7.0	63.0	
		1-04-68	6.6	63.4	
		2-06-68	6.4	63.6	
		3-04-68	6.2	63.8	
		4-05-68	5.2	64.8	
		5-03-68	4.1	65.9	
		6-03-68	10.9	59.1	
		7-08-68	15.2	54.8	
		8-05-68	9.4	60.6	
		9-05-68	10.2	59.8	
5S/09E-14R01 M	75.0	3-05-68	6.8	68.2	5524
5S/09E-24N01 M	75.0	3-05-68	5.6	69.4	5524
5S/09E-28A01 M	63.4	3-05-68	5.1	58.3	5524
5S/09E-34J01 M	64.0	10-03-67	13.7	50.3	5050
		11-03-67	6.9	57.1	
		12-05-67	5.8	58.2	
		1-04-68	6.0	58.0	
		2-05-68	5.8	58.2	
		3-04-68	5.7	58.3	
		4-05-68	14.5	49.5	
		5-03-68	14.8	49.2	
		6-03-68	21.0	43.0	
		7-08-68	17.9	46.1	
		8-05-68	17.6	46.4	
		9-05-68	22.4	41.6	
5S/10E-19R01 M	82.9	3-05-68	6.0	76.9	5524
5S/10E-21R01 M	92.0	3-05-68	8.3	83.7	5524
5S/11E-06J02 M	124.0	10-03-67	11.8	112.2	5050
		11-06-67	9.4	114.6	
		12-04-67	8.8	115.2	
		1-05-68	10.2	113.8	
		2-05-68	7.6	116.4	
		3-05-68	7.6	116.4	
		4-04-68	11.5	112.5	
		5-02-68	12.8	111.2	
		6-06-68	14.1	109.9	
		7-08-68	13.8	100.2	
		8-05-68	15.7	108.3	
		9-06-68	15.4	108.6	
5S/11E-21N01 M	125.0	3-05-68	9.9	115.1	5524
5S/11E-30A01 M	117.0	3-05-68	13.4	103.6	5524
5S/12E-31N01 M	150.0	2-00-68	NM-0		5524
6S/09E-15R01 M	60.0	3-05-68	6.7	53.3	5524
6S/10E-21A01 M	85.6	3-05-68	4.5	81.1	5524
6S/10E-28D01 M	83.6	3-05-68	11.2	72.4	5524
TURLOCK IRRIGATION DISTRICT			5-22.08		
6S/11E-08R01 M	115.0	3-05-68	11.7	103.3	5524
6S/11E-09N01 M	118.0	3-00-68	NM-0		5524
MERCED IRRIGATION DISTRICT			5-22.09		
6S/14E-32N01 M	178.1	3-00-68	16.4	161.7	5525
7S/10E-01N01 M	90.7	3-00-68	8.5	82.2	5525
7S/11E-01H01 M	118.0	10-02-67	12.6	105.4	5050
		10-30-67	12.7	105.3	
		12-01-67	11.9	106.1	
		1-03-68	12.0	106.0	
		2-02-68	12.1	105.9	
		3-12-68	12.5	105.5	
		3-27-68	12.5	105.5	
		5-06-68	15.1	102.9	
		5-31-68	16.1	101.9	
		6-27-68	16.6	101.4	
		8-05-68	16.5	101.5	
		9-03-68	16.0	102.0	
		9-30-68	17.5	100.5	
7S/11E-13N01 M	106.6	3-00-68	5.5	101.1	5525
7S/12E-12D01 M	144.0	10-02-67	12.1	135.9	5050
		10-30-67	12.7	135.3	
		12-01-67	14.1	133.9	
		1-03-68	14.3	133.7	
		2-02-68	14.4	133.6	
		3-12-68	15.5	132.5	
		3-27-68	15.0	133.0	
		5-06-68	14.1	129.9	
		5-31-68	13.9	130.1	
		6-27-68	14.4	129.6	
		8-05-68	13.0	131.0	
		9-03-68	14.0	130.0	
		9-30-68	15.7	128.3	
7S/12E-12R01 M	147.3	3-00-68	15.0	132.3	5525
7S/13E-16N01 M	151.9	3-00-68	13.8	138.1	5525
7S/13E-26D01 M	155.8	10-02-67	8.9	146.9	5050
		10-30-67	9.3	146.5	
		12-01-67	10.6	145.2	
		1-03-68	10.7	145.1	
		2-02-68	11.9	143.9	
		3-12-68	11.9	143.9	
		3-27-68	11.1	144.7	
		5-06-68	12.6	143.2	
		5-31-68	14.6	141.2	
		6-27-68	15.9	139.9	
		8-05-68	17.2	138.6	
		9-03-68	17.6	138.2	
		9-30-68	17.1	138.7	
7S/14E-16R01 M	187.5	3-00-68	15.6	171.9	5525
8S/12E-01D01 M	120.2	3-00-68	6.6	113.6	5525
8S/13E-09R01 M	135.0	3-00-68	6.7	128.3	5525
8S/14E-01A01 M	196.8	3-00-68	13.7	183.1	5525
EL NIDO IRRIGATION DISTRICT			5-22.10		
9S/13E-14R01 M	133.0	2-00-68	NM-0		5525
9S/14E-20B01 M	152.0	2-07-68	81.0	71.0	5525
DELTA-MENDOTA AREA			5-22.11		
2S/04E-16H01 M	78.0	10-09-67	19.0	59.0	5001
		3-20-68	8.0	70.0	
2S/04E-28A01 M	187.0	10-09-67	NM-9		5001
		3-20-68	NM-8		
2S/05E-32A01 M	76.0	10-10-67	18.8	57.2	5001
		3-22-68	21.4	54.6	
3S/05E-08R02 M	195.7	10-10-67	NM-8		5001
		3-22-68	NM-9		
3S/05E-25Q01 M	207.0	10-11-67	113.4	93.6	5001
		3-22-68	114.0	93.0	
3S/05E-26K01 M	212.1	10-11-67	117.6	94.5	5001
		3-22-68	118.0	94.1	
3S/06E-16Q01 M	80.0	10-18-67	87.4	-7.4	5001
		3-22-68	58.4	21.6	
3S/06E-18N01 M	99.3	10-18-67	8.6	90.7	5001
		3-22-68	11.4	87.9	
3S/06E-25D01 M	63.5	10-18-67	NM-2		5001
		3-22-68	NM-0		
4S/06E-04H01 M	163.3	10-12-67	137.5	25.8	5001
		3-22-68	112.0	51.3	
4S/06E-09R01 M	166.3	10-12-67	NM-1		5001
		3-22-68	112.1	54.2	
4S/07E-27M01 M	68.0	10-17-67	23.1	44.9	5001
		3-19-68	23.5	44.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELTA-MENDOTA AREA			5-22.11		
5S/07E-13K01 M	107.0	10-20-67	53.3	53.7	5001
		3-06-68	NM-2		
5S/07E-14D01 M	130.4	10-20-67	NM-1		5001
		3-06-68	76.6	53.8	
5S/08E-06K01 M	58.7	3-00-68	NM-0		5001
6S/07E-12P01 M	248.3	10-09-67	12.6	235.7	5050
		3-12-68	12.1	236.2	
6S/08E-12L01 M	64.3	3-00-68	NM-0		5001
6S/08E-16M01 M	129.5	10-09-67	NM-4		5050
		3-12-68	58.8	70.7	
6S/08E-27J01 M	114.5	10-09-67	46.6	67.9	5050
		3-12-68	46.4	68.1	
6S/08E-29J01 M	190.0	10-09-67	111.9	78.1	5050
		3-12-68	108.2	81.8	
7S/08E-22L01 M	127.9	10-09-67	45.8	82.1	5050
		3-18-68	NM-3		
7S/09E-04R01 M	65.6	10-13-67	17.7	47.9	5050
		3-18-68	NM-7		
7S/09E-26N01 M	68.4	10-11-67	7.0	61.4	5050
		3-19-68	6.0	62.4	
8S/08E-01N01 M	123.2	10-13-67	13.5	109.7	5050
		3-20-68	22.8	100.4	
8S/08E-15J01 M	172.8	10-13-67	NM-9		5050
		3-20-68	NM-0		
8S/09E-26H01 M	75.0	10-11-67	41.5	33.5	5050
		3-19-68	15.7	59.3	
8S/09E-26H03 M	75.0	10-11-67	7.4	67.6	5050
		3-19-68	1.9	73.1	
8S/10E-21L04 M	75.0	10-11-67	6.7	68.3	5050
		3-19-68	3.1	71.9	
9S/08E-13D01 M	201.6	10-00-67	NM-0		5050
9S/09E-18N01 M	153.6	10-10-67	29.5	124.1	5050
		3-21-68	37.3	116.3	
9S/09E-23L01 M	100.0	10-10-67	66.5	33.5	5050
		3-21-68	41.9	58.1	
9S/10E-19B01 M	84.0	10-11-67	2.9	81.1	5050
		3-19-68	-0.2	84.2	
9S/10E-23J01 M	87.0	10-10-67	51.1	35.9	5050
		3-21-68	38.1	48.9	
9S/11E-16H01 M	91.0	10-11-67	9.0	82.0	5050
		3-20-68	7.1	83.9	
9S/11E-20J01 M	90.5	10-11-67	43.5	47.0	5050
		3-20-68	40.6	49.9	
10S/09E-06A01 M	147.0	10-11-67	10.3	136.7	5050
		3-20-68	8.6	138.4	
10S/09E-08B01 M	167.0	10-11-67	78.8	88.2	5050
		3-20-68	71.9	95.1	
10S/10E-02R01 M	99.5	10-10-67	20.1	79.4	5050
		3-19-68	18.1	81.4	
10S/10E-11R01 M	106.6	10-10-67	24.2	82.4	5050
		3-19-68	20.7	85.9	
10S/10E-31G01 M	191.1	10-10-67	156.5	34.6	5050
		3-19-68	156.9	34.2	
10S/11E-23D01 M	99.0	10-09-67	11.1	87.9	5050
		3-18-68	8.5	90.5	
10S/11E-27E02 M	101.3	10-09-67	55.7	45.6	5050
		3-18-68	56.0	45.3	
11S/10E-11J01 M	157.3	10-09-67	53.6	103.7	5050
		3-09-68	51.8	105.5	
11S/10E-22Q01 M	246.8	10-09-67	137.9	108.9	5050
		3-19-68	143.3	103.5	
11S/11E-02J02 M	106.0	10-09-67	3.0	103.0	5050
		3-12-68	3.1	102.9	
11S/11E-22K01 M	114.2	10-10-67	2.3	111.9	5050
		3-12-68	0.4	113.8	
11S/11E-22Q03 M	119.0	10-10-67	11.0	108.0	5050
		3-12-68	13.7	105.3	
11S/12E-21C01 M	132.0	10-10-67	22.5	109.5	5050
		3-12-68	17.3	114.7	
12S/12E-04D01 M	138.0	10-13-67	NM-0		5001
12S/12E-25D01 M	177.0	10-17-67	62.6	114.4	5001
		4-02-68	61.4	115.6	
DELTA-MENDOTA AREA			5-22.11		
12S/12E-25D02 M	177.0	10-17-67	8.7	168.3	5001
		4-02-68	8.0	169.0	
12S/13E-10N01 M	144.0	10-16-67	DRY		5001
		4-02-68	DRY		
CHOWCHILLA WATER DISTRICT			5-22.12		
9S/14E-25R01 M	185.0	2-19-68	62.0	123.0	5001
9S/15E-22R02 M	216.5	10-23-67	110.7	105 8	5001
		11-27-67	107.0	109.5	
		12-20-67	103.9	112.6	
		1-24-68	97.0	119.5	
		2-27-68	92.9	123.6	
		3-19-68	90.0	126.5	
		4-23-68	NM-1		
		5-21-68	NM-1		
		6-25-68	NM-1		
		7-24-68	NM-1		
		8-22-68	NM-1		
		9-19-68	NM-1		
9S/15E-25J02 M	230.0	2-23-68	42.1	187.9	5001
9S/16E-22R01 M	267.0	10-23-67	40.2	226.8	5001
		11-28-67	40.0	227.0	
		12-20-67	39.9	227.1	
		1-24-68	40.0	227.0	
		2-27-68	40.3	226.7	
		3-17-68	41.5	225.5	
		4-23-68	41.2	225.8	
		5-21-68	44.4	222.6	
		6-25-68	43.7	223.3	
		7-24-68	44.5	222.5	
		8-22-68	44.5	222.5	
		9-19-68	45.6	221.4	
9S/17E-21L01 M	320.0	2-00-68	NM-0		5001
9S/17E-35J01 M	320.0	2-00-68	86.3	233.7	5001
9S/18E-33Q01 M	365.0	2-00-68	NM-8		5001
10S/14E-01A01 M	179.0	4-19-68	69.0	110.0	5001
		5-21-68	NM-1		
		6-25-68	NM-1		
		7-24-68	NM-1		
		8-22-68	NM-1		
		9-19-68	NM-1		
10S/14E-08B03 M	147.0	10-24-67	82.5	64.5	5001
		11-28-67	77.4	69.6	
		12-20-67	74.1	72.9	
		1-24-68	71.9	75.1	
		2-27-68	70.5	76.5	
		3-19-68	75.5	71.5	
		4-23-68	77.3	69.7	
		5-21-68	80.5	66.5	
		6-25-68	91.3	55.7	
		7-24-68	96.5	50.5	
		8-22-68	98.7	48.3	
		9-19-68	90.0	57.0	
10S/14E-24R01 M	167.0	4-19-68	73.9	93.1	5001
		5-21-68	74.7	92.3	
		6-25-68	NM-1		
		7-24-68	NM-1		
		8-22-68	96.3	70.7	
		9-19-68	88.0	79.0	
10S/15E-02Q01 M	212.5	4-19-68	86.0	126.5	5001
		5-21-68	90.1	122.4	
		6-25-68	109.9	102.6	
		7-24-68	NM-1		
		8-22-68	NM-1		
		9-19-68	113.0	99.5	
10S/15E-23K01 M	195.5	2-20-68	62.7	132.8	5001
10S/15E-27D03 M	184.0	10-24-67	70.7	113.3	5001
		11-28-67	71.7	112.3	
		12-20-67	69.3	114.7	
		1-24-68	66.3	117.7	
		2-27-68	65.0	119.0	
		3-19-68	72.7	111.3	
		4-23-68	NM-1		
		5-21-68	NM-1		
		6-25-68	NM-1		
		7-24-68	NM-1		
		8-22-68	83.7	100.3	
		9-19-68	NM-1		
10S/16E-09E01 M	232.0	10-24-67	77.9	154.1	5001
		11-28-67	80.7	151.3	
		12-20-67	73.1	158.9	
		1-24-68	71.3	160.7	
		2-27-68	71.5	160.5	
		3-19-68	71.5	160.5	
		4-23-68	NM-1		
		5-21-68	NM-1		
		6-25-68	NM-1		
		7-24-68	NM-1		
		8-22-68	102.2	129.8	
		9-19-68	NM-1		
10S/16E-29R01 M	209.5	2-21-68	74.0	135.5	5001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MADERA IRRIGATION DISTRICT			5-22.13		
10S/18E-20B01 M	326.0	2-00-68	69.6	256.4	5001
10S/19E-16D01 M	387.0	2-00-68	17.5	369.5	5001
11S/16E-06A01 M	196.0	10-27-67	70.3	125.7	5001
		11-28-67	67.8	128.2	
		12-26-67	65.2	130.8	
		1-29-68	63.2	132.8	
		2-27-68	62.3	133.7	
		3-28-68	63.1	132.9	
		4-26-68	65.3	130.7	
		5-29-68	68.4	127.6	
		6-28-68	71.6	124.4	
		7-29-68	73.5	122.5	
		8-28-68	75.4	120.6	
		9-26-68	75.2	120.8	
11S/16E-10N01 M	204.0	10-27-67	64.0	140.0	5001
		11-28-67	62.3	141.7	
		12-26-67	61.1	142.9	
		1-29-68	60.8	143.2	
		2-27-68	61.0	143.0	
		3-28-68	62.8	141.2	
		4-26-68	66.3	137.7	
		5-29-68	69.9	134.1	
		6-28-68	72.3	131.7	
		7-29-68	74.3	129.7	
		8-28-68	72.7	131.3	
		9-26-68	76.3	127.7	
11S/17E-27C01 M	250.0	2-08-68	72.7	177.3	5001
11S/18E-20N01 M	272.5	2-05-68	80.4	192.1	5001
11S/18E-27M01 M	284.0	10-27-67	82.6	201.4	5001
		11-28-67	82.2	201.8	
		12-26-67	81.8	202.2	
		1-29-68	80.0	204.0	
		2-27-68	78.8	205.2	
		3-28-68	81.7	202.3	
		4-26-68	82.6	201.4	
		5 29-68	84.4	199.6	
		6-28-68	83.0	201.0	
		7-29-68	NM-1		
		8-28-68	83.7	200.3	
		9-26-68	84.0	200.0	
12S/16E-23A01 M	205.0	2-07-68	74.6	130.4	5001
12S/17E-08G01 M	230.0	10-27-67	84.2	145.8	5001
		11-28-67	82.2	147.8	
		12-26-67	78.9	151.1	
		1-29-68	77.0	153.0	
		2-27-68	76.3	153.7	
		3-28-68	78.4	151.6	
		4-26-68	81.8	148.2	
		5-29-68	84.9	145.1	
		6-28-68	86.6	143.4	
		7-29-68	90.4	139.6	
		8-28-68	92.6	137.4	
		9-26-68	91.3	138.7	
12S/17E-20P01 M	218.0	10-27-67	76.1	141.9	5001
		11-28-67	73.1	144.9	
		12-26-67	65.3	152.7	
		1-29-68	63.3	154.7	
		2-27-68	NM-1		
		3-28-68	NM-1		
		3-29-68	NM-0		
12S/17E-21H01 M	228.0	2-07-68	58.8	169.2	5001
12S/17E-26C01 M	235.0	10-27-67	58.6	176.4	5001
		11-28-67	56.9	178.1	
		12-26-67	55.7	179.3	
		1-29-68	53.7	181.3	
		2-27-68	53.2	181.8	
		3-28-68	55.1	179.9	
		4-26-68	56.9	178.1	
		5-29-68	58.6	176.4	
		6-28-68	60.2	174.8	
		7-29-68	66.2	168.8	
		8-28-68	66.7	168.3	
		9-26-68	66.8	168.2	
12S/17E-34R01 M	234.0	10-27-67	51.3	182.7	5001
		11-28-67	49.5	184.5	
		12-26-67	50.4	183.6	
		1-29-68	49.5	184.5	
		2-27-68	49.3	184.7	
		3-28-68	NM-1		
		4-26-68	NM-1		
		5-29-68	50.5	183.5	
		6-28-68	54.5	179.5	
		7-29-68	NM-1		
		8-28-68	64.9	169.1	
		9-26-68	61.3	172.7	
12S/18E-13R01 M	288.0	10-27-67	78.7	209.3	5001
		11-28-67	75.6	212.4	
		12-26-67	77.5	210.5	
		1-29-68	76.8	211.2	
		2-27-68	76.8	211.2	
		3-28-68	76.9	211.1	
		4-26-68	81.3	206.7	
		5-29-68	79.1	208.9	
		6-28-68	82.9	205.1	
		7-29-68	82.3	205.7	
		8-28-68	81.7	206.3	
		9-26-68	81.8	206.2	
MADERA IRRIGATION DISTRICT			5-22.13		
12S/18E-21G01 M	265.0	2-06-68	70.4	194.6	5001
12S/18E-21H01 M	267.0	10-27-67	68.1	198.9	5001
		11-28-67	71.0	196.0	
		12-26-67	69.9	197.1	
		1-29-68	69.6	197.4	
		2-27-68	68.9	198.1	
		3-28-68	68.2	198.8	
		4-26-68	74.9	192.1	
		5-29-68	77.6	189.4	
		6-28-68	72.7	194.3	
		7-29-68	74.5	192.5	
		8-28-68	75.9	191.1	
		9-26-68	76.2	190.8	
12S/19E-28A01 M	307.5	2-07-68	81.9	225.6	5001
WEST CHOWCHILLA-MADERA AREA			5-22.14		
10S/13E-22R01 M	119.0	2-00-68	20.7	98.3	5001
10S/14E-01R01 M	177.0	2-00-68	NM-0		5001
10S/14E-31H01 M	130.0	10-24-67	37.6	92.4	5001
		11-28-67	38.0	92.0	
		12-20-67	37.4	92.6	
		1-24-68	37.0	93.0	
		2-27-68	38.6	91.4	
		3-19-68	33.6	96.4	
		4-23-68	40.5	89.5	
		5-21-68	39.2	90.8	
		6-25-68	40.2	89.8	
		7-24-68	41.0	89.0	
		8-22-68	41.7	88.3	
		9-19-68	41.2	88.8	
10S/14E-35F01 M	151.0	10-24-67	78.9	72.1	5001
		11-28-67	70.0	81.0	
		12-20-67	66.8	84.2	
		1-24-68	62.9	88.1	
		2-27-68	60.8	90.2	
		3-19-68	NM-1		
		4-19-68	NM-1		
		5-21-68	NM-1		
		6-25-68	NM-1		
		7-24-68	NM-1		
		8-22-68	NM-1		
		9-19-68	89.8	61.2	
11S/14E-13R01 M	150.0	4-23-68	NM-1		5001
		5-23-68	NM-1		
		6-25-68	NM-1		
		7-25-68	NM-1		
		8-23-68	NM-1		
		9-19-68	54.2	95.8	
11S/14E-33L01 M	135.0	10-24-67	11.8	123.2	5001
		10-25-67	NM-0		
11S/15E-33E01 M	158.0	2-00-68	NM-1		5001
11S/15E-33P01 M	158.0	10-24-67	56.5	101.5	5001
		11-28-67	43.1	114.9	
		12-21-67	40.1	117.9	
		1-25-68	39.5	118.5	
		2-28-68	53.4	104.6	
		3-20-68	42.5	115.5	
		4-24-68	69.3	88.7	
		5-23-68	82.5	75.5	
		6-26-68	72.3	85.7	
		7-25-68	72.4	85.6	
		8-23-68	72.7	85.3	
		9-20-68	59.7	98.3	
12S/14E-25H01 M	150.0	10-24-67	14.1	135.9	5001
		10-25-67	NM-0		
12S/15E-14L01 M	165.1	2-00-68	46.3	118.8	5001
13S/16E-02C01 M	194.0	10-27-67	72.1	121.9	5001
		11-28-67	70.3	123.7	
		12-26-67	61.0	133.0	
		1-25-68	59.5	134.5	
		2-27-68	58.4	135.6	
		3-28-68	62.1	131.9	
		4-26-68	68.7	125.3	
		5-29-68	70.7	123.3	
		6-28-68	77.3	116.7	
		7-29-68	80.7	113.3	
		8-28-68	81.5	112.5	
		9-26-68	81.9	112.1	
FRESNO IRRIGATION DISTRICT			5-22.15		
12S/20E-14A01 M	360.0	2-08-68	98.5	261.5	5001
12S/21E-34D01 M	387.7	10-25-67	53.8	333.9	5631
		11-30-67	56.8	330.9	
		12-29-67	53.1	334.6	
		1-30-68	48.9	338.8	
		2-22-68	47.8	339.9	
		3-29-68	47.1	340.6	
		5-01-68	NM-1		
		6-03-68	49.1	338.6	
		6-28-68	49.0	338.7	
		7-30-68	49.1	338.6	
		8-30-68	52.8	334.9	
		9-30-68	NM-1		
12S/22E-21E01 M	473.0	2-08-68	17.3	455.7	5001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO IRRIGATION DISTRICT		5-22.15			
13S/17E-22B01 M	220.8	10-03-67	36.4	184.4	5631
		11-02-67	36.2	184.6	
		11-30-67	34.9	185.9	
		12-29-67	35.9	184.9	
		1-30-68	35.1	185.7	
		2-28-68	36.0	184.8	
		3-29-68	36.7	184.1	
		5-01-68	36.0	184.8	
		6-26-68	35.4	185.4	
		7-30-68	35.7	185.1	
		8-30-68	38.3	182.5	
		9-30-68	39.7	181.1	
13S/17E-33D01 M	211.0	10-24-67	49.6	161.4	5001
		11-27-67	48.8	162.2	
		12-19-67	48.8	162.2	
		1-25-68	48.0	163.0	
		2-26-68	49.6	161.4	
		3-18-68	49.0	162.0	
		4-22-68	52.5	158.5	
		5-20-68	51.5	159.5	
		6-24-68	56.5	154.5	
		7-23-68	NM-1		
		8-21-68	61.2	149.8	
		9-18-68	60.2	150.8	
13S/18E-10P01 M	258.0	10-24-67	48.4	209.6	5001
		11-27-67	48.4	209.6	
		12-19-67	47.7	210.3	
		1-25-68	49.3	208.7	
		2-26-68	51.7	206.3	
		3-18-68	49.6	208.4	
		4-22-68	50.8	207.2	
		5-20-68	49.9	208.1	
		6-24-68	46.3	211.7	
		7-23-68	45.9	212.1	
		8-21-68	47.0	211.0	
		9-18-68	48.8	209.2	
13S/18E-16D01 M	253.0	2-06-68	52.6	200.4	5001
13S/18E-34D01 M	245.0	10-24-67	57.0	188.0	5001
		11-27-67	56.7	188.3	
		12-19-67	57.4	187.6	
		1-25-68	56.3	188.7	
		2-26-68	61.3	183.7	
		3-18-68	61.5	183.5	
		4-22-68	58.5	186.5	
		5-20-68	57.5	187.5	
		6-24-68	63.0	182.0	
		7-23-68	56.5	188.5	
		8-21-68	59.4	185.6	
		9-18-68	57.8	187.7	
13S/19E-09Q01 M	288.2	10-02-67	64.4	223.8	5631
		10-31-67	64.4	223.8	
		11-30-67	68.0	220.2	
		12-29-67	69.3	218.9	
		1-30-68	69.0	219.2	
		2-28-68	65.0	223.2	
		3-29-68	NM-1		
		5-01-68	62.2	226.0	
		5-30-68	NM-1		
		6-26-68	62.0	226.2	
		7-30-68	NM-1		
		8-30-68	63.9	224.3	
		9-30-68	NM-1		
13S/19E-16K01 M	290.0	10-24-67	73.7	216.3	5001
		11-27-67	73.5	216.5	
		12-19-67	74.9	215.1	
		1-25-68	75.3	214.7	
		2-26-68	76.7	213.3	
		3-18-68	73.3	216.7	
		4-22-68	72.7	217.3	
		5-20-68	74.9	205.1	
		6-24-68	73.2	216.8	
		7-23-68	73.5	216.5	
		8-21-68	73.8	216.2	
		9-18-68	74.5	215.5	
13S/20E-02L01 M	336.7	10-25-67	89.7	247.0	5631
		11-30-67	88.7	248.0	
		12-29-67	89.2	247.5	
		1-30-68	90.2	246.5	
		2-27-68	88.6	248.1	
		3-29-68	88.5	248.2	
		5-01-68	88.7	248.0	
		6-03-68	89.4	247.3	
		6-28-68	90.2	246.5	
		7-30-68	95.7	241.0	
		8-30-68	91.7	245.0	
		9-30-68	NM-4		
13S/21E-23D01 M	362.0	10-25-67	10.5	351.5	5631
		11-30-67	14.2	347.8	
		12-29-67	14.2	347.8	
		12-30-67	NM-0		
13S/23E-31P01 M	406.5	2-28-68	26.4	380.1	5631
14S/18E-08J01 M	227.4	10-03-67	66.9	160.5	5631
		10-31-67	66.0	161.4	
		11-30-67	72.8	154.6	
		12-29-67	61.5	165.9	
		1-20-68	62.1	165.3	
		2-29-68	61.4	166.0	
		3-29-68	61.6	165.8	
		5-01-68	67.4	160.0	
		5-30-68	NM-1		
FRESNO IRRIGATION DISTRICT		5-22.15			
14S/18E-08J01 M CONT.	227.4	6-27-68	NM-1		5631
		7-30-68	70.5	156.9	
		8-30-68	NM-1		
		9-30-68	72.6	154.8	
14S/19E-20B02 M	247.2	10-02-67	54.7	192.5	5631
		10-31-67	54.0	193.2	
		11-30-67	55.6	191.6	
		12-29-67	53.4	193.8	
		1-31-68	54.3	192.9	
		2-29-68	52.2	195.0	
		3-29-68	52.0	195.2	
		5-01-68	52.7	194.5	
		5-30-68	52.0	193.2	
		6-23-68	52.2	195.0	
		7-30-68	54.7	192.5	
		8-30-68	54.5	192.7	
		9-27-68	60.0	187.2	
14S/20E-06J01 M	279.4	10-25-67	70.0	209.4	5631
		11-30-67	65.5	213.9	
		12-29-67	66.5	212.9	
		1-31-68	66.9	212.5	
		2-28-68	64.2	215.2	
		3-29-68	64.4	215.0	
		5-01-68	64.4	215.0	
		5-30-68	66.5	212.9	
		6-25-68	71.9	207.5	
		8-30-68	69.8	209.6	
		9-27-68	68.3	211.1	
15S/20E-13E02 M	282.5	10-26-67	35.2	247.3	5631
		11-30-67	34.8	247.7	
		12-29-67	36.3	246.2	
		1-31-68	35.8	246.7	
		2-29-68	36.1	246.4	
		3-29-68	36.2	246.3	
		5-01-68	35.6	246.9	
		6-04-68	36.0	246.5	
		6-28-68	36.0	246.5	
		7-30-68	35.8	246.7	
		8-30-68	36.2	246.3	
		9-27-68	39.7	242.8	
CITY OF FRESNO		5-22.16			
13S/20E-21J01 M	310.0	2-26-68	94.3	215.7	5200
13S/20E-23B01 M	325.0	10-30-67	95.4	229.6	5200
		11-27-67	94.0	231.0	
		12-29-67	93.0	232.0	
		1-30-68	92.4	232.6	
		2-26-68	91.9	233.1	
		3-27-68	91.3	233.7	
		4-29-68	91.6	233.4	
		5-29-68	93.7	231.3	
		6-26-68	95.1	229.9	
		7-30-68	95.7	229.3	
		8-29-68	96.2	228.8	
		9-25-68	97.0	228.0	
13S/20E-28E01 M	299.3	10-31-67	93.3	206.0	5200
		11-27-67	90.2	209.1	
		12-29-67	89.3	210.0	
		1-30-68	87.7	211.6	
		2-26-68	86.8	212.5	
		3-27-68	85.8	213.5	
		4-29-68	86.6	212.7	
		5-29-68	88.3	211.0	
		6-26-68	90.8	208.5	
		7-29-68	92.7	206.6	
		8-29-68	87.3	212.0	
		9-26-68	92.8	206.5	
13S/20E-35H02 M	305.3	10-30-67	82.5	222.8	5200
		11-28-67	81.3	224.0	
		12-29-67	83.3	222.0	
		1-30-68	83.4	221.9	
		2-28-68	82.0	223.3	
		3-28-68	81.8	223.5	
		4-29-68	83.3	222.0	
		5-30-68	85.1	220.2	
		6-27-68	87.3	218.0	
		7-30-68	90.0	215.3	
		8-30-68	89.3	216.0	
		9-26-68	90.5	214.8	
14S/20E-10M01 M	291.4	10-30-67	86.6	204.8	5200
		11-28-67	82.9	208.5	
		12-29-67	80.8	210.6	
		1-30-68	78.8	212.6	
		2-27-68	77.4	214.0	
		3-28-68	77.2	214.2	
		4-29-68	78.8	212.6	
		5-30-68	81.6	209.8	
		6-27-68	83.4	208.0	
		7-29-68	86.2	205.2	
		8-30-68	85.3	206.1	
		9-25-68	84.9	206.5	
FRESNO SLOUGH AREA		5-22.17			
13S/15E-28H01 M	162.0	2-00-68	NM-0		5001
13S/17E-17A01 M	205.0	10-24-67	17.2	187.8	5001
		10-25-67	NM-0		
14S/15E-25H02 M	160.0	10-24-67	28.8	131.2	5001
		11-27-67	24.8	135.2	
		12-19-67	NM-9		

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO SLOUGH AREA			5-22.17		
14S/15E-25H02 M CONT.	160.0	1-25-68	22.9	137.1	5001
		2-26-68	24.8	135.2	
		3-18-68	24.5	135.5	
		4-22-68	27.8	132.2	
		5-20-68	28.8	131.2	
		6-24-68	32.6	127.4	
		7-23-68	31.7	128.3	
		8-21-68	33.2	126.8	
		9-18-68	34.2	125.8	
14S/16E-03C01 M	177.0	10-24-67	60.4	116.6	5001
		11-27-67	58.3	118.7	
		12-19-67	49.0	128.0	
		1-25-68	44.9	132.1	
		2-26-68	47.8	129.2	
		3-18-68	48.5	128.5	
		4-22-68	NM-1		
		5-20-68	NM-1		
		6-24-68	NM-1		
		7-23-68	NM-1		
		8-21-68	65.9	111.1	
		9-18-68	63.0	114.0	
14S/16E-08D01 M	165.0	10-24-67	44.0	121.0	5001
		11-27-67	37.2	127.8	
		12-19-67	31.7	133.3	
		1-25-68	29.5	135.5	
		2-26-68	33.2	131.8	
		3-18-68	41.8	123.2	
		4-22-68	NM-1		
		5-20-68	NM-1		
		6-24-68	NM-1		
		7-23-68	64.8	100.2	
		8-21-68	NM-1		
		9-18-68	74.8	90.2	
14S/16E-22N01 M	163.0	2-09-68	25.2	137.8	5001
14S/17E-25A01 M	211.0	2-07-68	89.3	121.7	5001
15S/16E-01L01 M	171.0	2-09-68	37.8	133.2	5001
15S/16E-12C03 M	169.5	10-24-67	28.7	140.8	5001
		11-27-67	28.2	141.3	
		12-19-67	27.8	141.7	
		1-25-68	27.7	141.8	
		2-26-68	30.0	139.5	
		3-18-68	31.1	138.4	
		4-22-68	32.0	137.5	
		5-20-68	32.4	137.1	
		6-24-68	34.5	135.0	
		7-23-68	34.3	135.2	
		8-21-68	34.1	135.4	
		9-18-68	35.5	134.0	
15S/17E-22R01 M	187.0	2-08-68	93.1	93.9	5001
15S/17E-35N02 M	182.0	10-24-67	78.7	103.3	5001
		11-27-67	77.2	104.8	
		12-19-67	76.5	105.5	
		1-25-68	86.8	95.2	
		2-26-68	84.6	97.4	
		3-18-68	84.5	97.5	
		4-22-68	87.1	94.9	
		5-20-68	87.9	94.1	
		6-24-68	92.0	90.0	
		7-23-68	96.0	86.0	
		8-21-68	97.0	85.0	
		9-18-68	97.5	84.5	
15S/18E-07A02 M	204.0	10-24-67	119.0	85.0	5001
		11-27-67	111.7	92.3	
		12-19-67	107.5	96.5	
		1-25-68	102.9	101.1	
		2-26-68	99.7	104.3	
		3-18-68	103.5	100.5	
		4-22-68	108.5	95.5	
		5-20-68	115.0	89.0	
		6-24-68	115.5	88.5	
		7-23-68	121.1	82.9	
		8-21-68	125.5	78.5	
		9-18-68	120.8	83.2	
15S/18E-16G01 M	205.8	2-05-68	105.2	100.6	5001
16S/17E-23N01 M	185.0	2-06-68	126.2	58.8	5001
16S/18E-03J01 M	206.0	10-04-67	118.8	87.2	5050
		10-31-67	119.0	87.0	
		12-04-67	118.5	87.5	
		1-04-68	117.5	88.5	
		2-05-68	112.5	93.5	
		3-01-68	113.5	92.5	
		3-29-68	NM-1		
		5-07-68	NM-1		
		6-03-68	NM-1		
		6-28-68	NM-1		
		7-29-68	NM-1		
		9-04-68	NM-1		
		9-30-68	118.5	87.5	
16S/18E-27C01 M	198.0	3-11-68	106.5	91.5	5050
16S/19E-34P01 M	220.0	10-04-67	110.0	110.0	5050
		10-31-67	109.0	111.0	
		12-04-67	100.8	119.2	
		1-04-68	108.5	111.5	
		2-05-68	99.2	120.8	
		3-01-68	109.8	110.2	
		3-29-68	NM-1		
FRESNO SLOUGH AREA			5-22.17		
16S/19E-34P01 M CONT.	220.0	5-07-68	109.0	111.0	5050
		6-03-68	108.5	111.5	
		6-28-68	111.0	109.0	
		8-06-68	114.5	105.5	
		9-04-68	124.5	95.5	
		9-30-68	128.2	91.8	
17S/17E-12H01 M	199.0	3-11-68	120.5	78.5	5050
17S/18E-23A02 M	200.0	3-06-68	NM-9		5050
CONSOLIDATED IRRIGATION DISTRICT			5-22.18		
14S/22E-22N01 M	355.7	10-31-67	28.6	327.1	5636
		12-01-67	28.0	327.7	
		1-03-68	27.4	328.3	
		1-31-68	27.0	328.7	
		3-01-68	26.7	329.0	
		4-01-68	26.5	329.2	
		5-01-68	27.0	328.7	
		6-01-68	27.8	327.9	
		7-01-68	28.1	327.6	
		8-01-68	28.4	327.3	
		9-03-68	28.3	327.4	
15S/19E-24N01 M	246.6	10-31-67	84.3	162.3	5636
		12-01-67	81.0	165.6	
		1-03-68	79.1	167.5	
		1-31-68	77.9	168.7	
		3-01-68	76.0	170.6	
		4-01-68	81.7	164.9	
		5-01-68	84.8	161.8	
		6-01-68	87.3	159.3	
		7-01-68	89.4	157.2	
		8-01-68	90.6	156.0	
		9-03-68	88.3	158.3	
15S/20E-28A01 M	264.8	10-31-67	56.3	208.5	5636
		12-01-67	54.4	210.4	
		1-03-68	52.4	212.4	
		1-31-68	53.9	210.9	
		3-01-68	53.3	211.5	
		4-01-68	57.1	207.7	
		5-01-68	58.4	206.4	
		6-01-68	58.7	206.1	
		7-01-68	59.3	205.5	
		8-01-68	60.1	204.7	
		9-03-68	57.8	207.0	
15S/21E-15D01 M	301.2	10-31-67	33.3	267.7	5636
		12-01-67	32.4	268.6	
		1-03-68	32.5	268.5	
		1-31-68	30.7	270.3	
		3-01-68	30.3	270.9	
		4-01-68	30.3	270.9	
		5-01-68	30.9	270.3	
		6-01-68	31.8	269.4	
		7-01-68	32.3	268.9	
		8-01-68	33.3	267.9	
		9-03-68	33.1	268.1	
15S/22E-16A01 M	337.0	10-31-67	28.3	308.7	5636
		12-01-67	28.1	308.9	
		1-03-68	27.6	309.4	
		1-31-68	27.1	309.9	
		3-01-68	27.4	309.6	
		4-01-68	27.8	309.2	
		5-01-68	29.6	307.4	
		6-01-68	29.9	307.1	
		7-01-68	29.7	307.3	
		8-01-68	29.3	307.7	
		9-03-68	29.1	307.9	
15S/22E-29D01 M	321.9	10-31-67	28.7	293.2	5636
		12-01-67	29.5	292.4	
		1-03-68	29.3	292.6	
		1-31-68	29.5	292.4	
		3-01-68	29.7	292.2	
		4-01-68	30.3	291.6	
		5-01-68	32.2	289.7	
		6-01-68	32.8	289.1	
		7-01-68	32.7	289.2	
		8-01-68	33.7	288.2	
		9-03-68	34.0	287.9	
16S/19E-14A01 M	235.5	10-31-67	92.1	143.4	5636
		12-01-67	89.6	145.9	
		1-03-68	87.4	148.1	
		1-31-68	86.5	149.0	
		3-01-68	85.9	149.6	
		4-01-68	91.1	144.4	
		5-01-68	93.8	141.7	
		6-01-68	96.7	138.8	
		7-01-68	99.1	136.4	
		8-01-68	102.5	133.0	
		9-03-68	105.8	129.7	
16S/20E-22N01 M	247.7	10-31-67	60.0	187.7	5636
		12-01-67	62.4	185.3	
		1-03-68	60.4	187.3	
		1-31-68	59.9	187.8	
		3-01-68	60.9	186.8	
		4-01-68	64.6	183.1	
		5-01-68	66.8	180.9	
		6-01-68	68.6	179.1	
		7-01-68	68.6	179.1	
		8-01-68	69.8	177.9	
		9-03-68	69.8	177.9	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CONSOLIDATED IRRIGATION DISTRICT			5-22.18		
16S/21E-22N01 M	271.0	10-31-67	46.6	225.1	5636
		12-01-67	45.3	226.4	
		1-03-68	43.9	227.8	
		1-31-68	42.9	228.8	
		3-01-68	42.3	228.7	
		4-01-68	44.1	226.9	
		5-01-68	47.9	223.1	
		6-01-68	49.8	221.2	
		7-01-68	50.2	220.8	
		8-01-68	52.8	218.2	
		9-01-68	53.0	218.0	
16S/22E-23R01 M	297.5	10-31-67	24.4	273.1	5636
		12-01-67	24.1	273.4	
		1-03-68	23.8	273.7	
		1-31-68	23.6	273.9	
		3-01-68	23.6	273.9	
		4-01-68	23.8	273.7	
		5-01-68	24.4	273.1	
		6-01-68	25.5	272.0	
		7-01-68	25.4	272.1	
		8-01-68	25.8	271.7	
		9-03-68	26.9	270.6	
17S/22E-03C01 M	286.0	10-31-67	17.8	268.2	5636
		12-01-67	18.6	267.4	
		1-03-68	16.3	269.7	
		1-31-68	19.2	266.8	
		3-01-68	21.1	264.9	
		4-01-68	20.8	265.2	
		5-01-68	29.2	256.8	
		6-01-68	29.6	256.4	
		7-01-68	22.3	263.7	
		8-01-68	27.3	258.7	
		9-03-68	26.3	259.7	
ALTA IRRIGATION DISTRICT			5-22.19		
14S/23E-36R01 M	391.0	11-01-67	39.8	351.2	5637
		11-29-67	40.9	350.1	
		12-28-67	40.8	350.2	
		1-31-68	41.4	349.6	
		2-28-68	42.0	349.0	
		3-29-68	NM-1		
		4-29-68	56.5	334.5	
		5-29-68	62.1	328.9	
		6-27-68	48.3	342.7	
		7-30-68	62.2	328.8	
		8-29-68	66.0	325.0	
		9-27-68	NM-1		
14S/24E-31P01 M	395.0	2-28-68	42.7	352.3	5001
15S/23E-23A02 M	358.0	11-01-67	40.5	317.5	5637
		11-28-67	39.8	318.2	
		12-28-67	39.3	318.7	
		1-30-68	39.4	318.6	
		2-28-68	39.4	318.6	
		3-29-68	42.2	315.8	
		4-29-68	NM-1		
		5-31-68	49.1	308.9	
		6-27-68	48.7	309.3	
		7-30-68	52.0	306.0	
		8-29-68	55.2	302.8	
		9-27-68	55.7	302.3	
15S/24E-22D01 M	388.0	11-02-67	25.8	362.2	5637
		11-30-67	27.3	360.7	
		12-29-67	26.7	361.3	
		2-01-68	26.7	361.3	
		2-29-68	26.3	361.7	
		3-29-68	25.8	362.2	
		4-30-68	38.0	350.0	
		5-29-68	35.0	353.0	
		6-28-68	27.4	360.6	
		7-31-68	32.4	355.6	
		8-30-68	41.0	347.0	
		9-30-68	44.0	344.0	
16S/23E-23E01 M	314.0	10-31-67	24.0	290.0	5637
		11-28-67	24.2	289.8	
		12-27-67	23.4	290.6	
		1-30-68	23.0	291.0	
		2-27-68	22.8	291.2	
		3-29-68	25.9	288.1	
		4-26-68	25.1	288.9	
		5-28-68	26.4	287.6	
		6-26-68	27.8	286.2	
		7-29-68	29.2	284.8	
		8-28-68	28.6	285.8	
		9-30-68	28.4	285.6	
16S/24E-21J01 M	336.0	10-30-67	31.2	304.8	5637
		11-27-67	26.4	309.6	
		12-26-67	26.7	309.3	
		1-29-68	27.6	308.4	
		2-26-68	27.6	308.4	
		3-29-68	31.6	304.4	
		4-25-68	34.2	301.8	
		5-27-68	37.0	299.0	
		6-25-68	35.4	300.6	
		7-26-68	35.9	300.1	
		8-27-68	NM-1		
		9-25-68	40.3	295.7	
ALTA IRRIGATION DISTRICT			5-22.19		
16S/25E-29A01 M	364.0	10-30-67	43.1	320.9	5637
		11-27-67	37.0	327.0	
		12-26-67	36.6	327.4	
		1-29-68	36.6	327.4	
		2-26-68	34.5	329.5	
		3-29-68	36.5	327.5	
		4-25-68	43.9	320.1	
		5-27-68	50.3	313.7	
		6-25-68	47.6	316.4	
		7-26-68	NM-1		
		8-27-68	NM-1		
		9-25-68	NM-1		
17S/22E-25A01 M	276.0	10-31-67	39.9	236.1	5637
		11-28-67	35.8	240.2	
		12-27-67	32.3	243.7	
		1-30-68	30.0	246.0	
		2-27-68	29.2	246.8	
		3-29-68	32.3	243.7	
		4-26-68	38.5	237.5	
		5-28-68	NM-1		
		6-26-68	41.2	234.8	
		7-29-68	NM-1		
		8-28-68	NM-1		
		9-26-68	52.0	224.0	
17S/22E-25J01 M	275.0	10-31-67	39.4	235.6	5637
		11-28-67	36.6	238.4	
		12-27-67	33.7	241.3	
		1-30-68	31.4	243.6	
		2-27-68	31.0	244.0	
		3-29-68	32.6	242.4	
		4-26-68	35.8	239.2	
		5-28-68	39.0	236.0	
		6-26-68	40.9	234.1	
		7-29-68	44.8	230.2	
		8-28-68	49.5	225.5	
		9-26-68	46.2	228.8	
17S/24E-15A03 M	302.0	10-25-67	41.0	261.0	5001
		11-29-67	27.9	274.1	
		12-20-67	26.9	275.1	
		1-24-68	25.0	277.0	
		2-28-68	31.2	270.8	
		3-20-68	28.0	274.0	
		4-24-68	28.5	273.5	
		5-22-68	27.3	274.7	
		6-27-68	26.4	275.6	
		7-25-68	37.7	264.3	
		8-23-68	41.1	260.9	
		9-18-68	33.4	268.6	
17S/25E-10C01 M	335.0	2-27-68	39.5	295.5	5637
17S/25E-18R01 M	321.0	2-27-68	61.9	259.1	5637
LOWER KINGS RIVER AREA			5-22.20		
17S/19E-14J01 M	217.0	3-07-68	NM-4		5050
17S/20E-20D01 M	223.0	10-04-67	65.9	157.1	5050
		10-31-67	62.0	161.0	
		12-04-67	59.2	163.8	
		1-04-68	61.0	162.0	
		2-05-68	57.5	165.5	
		3-01-68	64.0	159.0	
		3-39-68	65.0	158.0	
		5-07-68	73.5	149.5	
		6-03-68	67.8	155.2	
		8-26-68	82.8	140.2	
		9-04-68	87.5	135.5	
		9-30-68	75.3	147.7	
17S/21E-11K01 M	257.0	10-31-67	43.9	213.1	5050
		12-04-67	42.5	214.5	
		1-04-68	37.3	219.7	
		2-05-68	35.7	221.3	
		3-01-68	37.9	219.1	
		3-29-68	36.3	220.7	
		5-07-68	NM-1		
		6-03-68	40.0	217.0	
		6-28-68	NM-1		
		8-06-68	44.0	213.0	
		9-04-68	NM-1		
18S/19E-26E01 M	210.0	3-01-68	NM-0		5050
18S/20E-16A01 M	230.0	3-06-68	6.1	224.0	5050
18S/21E-10R01 M	254.0	10-04-67	64.1	189.9	5050
		10-31-67	63.7	190.3	
		12-04-67	59.4	194.6	
		1-04-68	61.0	193.0	
		2-05-68	56.0	198.0	
		3-01-68	62.0	192.0	
		3-29-68	62.5	191.5	
		5-07-68	73.0	181.0	
		6-03-68	NM-1		
		6-28-68	82.2	171.8	
		8-06-68	79.1	174.9	
		9-04-68	81.0	173.0	
19S/19E-25A01 M	208.0	3-01-68	2.0	206.0	5050

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LOWER KINGS RIVER AREA			5-22.20		
20S/22E-19M02 M	211.0	10-04-67	26.8	184.2	5050
		10-31-67	25.0	186.0	
		12-04-67	26.0	185.0	
		1-04-68	24.5	186.5	
		2-05-68	24.3	186.7	
		3-01-68	24.9	186.1	
		3-29-68	23.8	187.2	
		5-07-68	24.8	186.2	
		6-03-68	25.2	185.8	
		6-28-68	26.9	184.1	
		8-06-68	26.8	184.2	
		9-04-68	26.7	184.3	
ORANOE COVE IRRIGATION DISTRICT			5-22.21		
14S/24E-29C02 M	430.5	10-03-67	41.0	389.5	5001
		11-02-67	NM-1		
		12-01-67	40.1	390.4	
		1-02-68	40.0	390.5	
		2-01-68	38.8	391.7	
		3-01-68	41.1	389.4	
		4-02-68	39.3	391.2	
		5-02-68	NM-1		
		6-03-68	NM-1		
		7-01-68	NM-1		
		8-01-68	NM-1		
		9-01-68	NM-1		
14S/25E-30D01 M	510.0	2-00-68	NM-0		5001
15S/24E-14D01 M	405.0	10-03-67	9.6	395.4	5001
		11-02-67	9.6	395.4	
		12-01-67	9.9	395.1	
		1-02-68	10.6	394.4	
		2-01-68	12.5	392.5	
		3-01-68	10.7	394.3	
		4-02-68	10.5	394.5	
		5-02-68	12.6	392.4	
		6-03-68	13.5	391.5	
		7-01-68	16.0	389.0	
		8-01-68	18.5	386.5	
		9-01-68	24.2	380.8	
16S/25E-04C02 M	415.0	10-03-67	10.3	404.7	5001
		11-03-67	10.0	405.0	
		12-01-67	10.2	404.8	
		1-02-68	10.8	404.2	
		2-01-68	11.7	403.2	
		3-01-68	11.4	403.6	
		4-03-68	12.3	402.7	
		5-02-68	11.9	403.1	
		6-03-68	11.0	404.0	
		7-01-68	10.9	404.1	
		8-06-68	11.5	403.5	
		9-01-68	11.4	403.6	
STONE CORRAL IRRIGATION DISTRICT			5-22.22		
16S/26E-32R01 M	405.0	10-25-67	2.8	402.2	5001
		11-29-67	2.4	402.6	
		12-20-67	2.0	403.0	
		1-24-68	2.1	402.9	
		2-28-68	1.7	403.3	
		3-20-68	2.6	402.4	
		4-24-68	3.3	401.7	
		5-22-68	2.4	402.6	
		6-27-68	2.8	402.2	
		7-25-68	1.7	403.3	
		8-23-68	3.0	402.0	
		9-18-68	3.1	401.9	
17S/26E-07R01 M	364.0	10-25-67	5.0	359.0	5001
		11-29-67	4.7	359.3	
		12-20-67	4.0	360.0	
		1-24-68	4.7	359.3	
		2-28-68	4.9	359.1	
		3-20-68	5.1	358.9	
		4-24-68	6.2	357.8	
		5-22-68	5.7	358.3	
		6-27-68	6.5	357.5	
		7-25-68	10.5	353.5	
		8-23-68	12.2	351.8	
		9-18-68	12.7	351.3	
IVANHOE IRRIGATION DISTRICT			5-22.23		
17S/25E-27R01 M	350.0	1-31-68	85.6	264.4	5001
17S/25E-35M01 M	349.0	10-01-67	81.0	268.0	5001
		10-31-67	81.4	267.6	
		11-30-67	80.3	268.7	
		12-30-67	79.5	269.5	
		1-31-68	78.7	270.3	
		3-01-68	78.2	270.8	
		4-01-68	75.8	273.2	
		5-01-68	76.3	272.7	
		6-01-68	76.8	272.2	
		7-01-68	80.3	268.7	
		8-01-68	79.9	269.1	
		9-01-68	81.5	267.5	
17S/25E-36Q01 M	365.0	10-01-67	72.1	292.9	5001
		10-31-67	71.2	293.8	
		11-30-67	71.0	294.0	
		12-30-67	70.2	294.8	
		1-31-68	70.0	295.0	
		3-01-68	69.6	295.4	
		4-01-68	70.7	294.3	
		5-01-68	NM-1		
		6-01-68	74.4	290.6	
IVANHOE IRRIGATION DISTRICT			5-22.23		
17S/25E-36001 M CONT.	365.0	7-01-68	78.1	286.9	5001
		8-01-68	79.5	285.5	
		9-01-68	83.2	281.8	
17S/26E-21E01 M	394.0	10-01-67	14.0	380.0	5001
		10-31-67	14.0	380.0	
		11-01-67	NM-0		
17S/26E-32N01 M	385.0	10-01-67	64.8	320.2	5001
		10-31-67	64.2	320.8	
		11-30-67	63.1	321.9	
		12-30-67	62.2	322.8	
		1-31-68	61.0	324.0	
		3-01-68	59.6	325.4	
		4-01-68	59.9	325.1	
		5-01-68	NM-1		
		6-01-68	61.6	323.4	
		7-01-68	63.5	321.5	
		8-01-68	NM-1		
		9-01-68	67.0	318.0	
17S/26E-34D01 M	416.0	10-01-67	55.0	361.0	5001
		10-31-67	55.0	361.0	
		11-30-67	53.9	362.1	
		12-30-67	51.4	364.6	
		1-31-68	50.2	365.8	
		3-01-68	49.0	367.0	
		4-01-68	48.0	368.0	
		5-01-68	51.5	364.5	
		6-01-68	53.5	362.5	
		7-01-68	56.4	359.6	
		8-01-68	57.0	359.0	
		9-01-68	59.0	357.0	
KAWEAH DELTA WATER CONSERV. DIST.			5-22.24		
17S/24E-34B01 M	297.5	10-04-67	10.7	286.8	5001
		10-30-67	10.0	287.5	
		11-30-67	11.0	286.5	
		11-31-67	NM-0		
17S/25E-15P01 M	340.0	10-31-67	NM-1		5001
		11-29-67	95.9	244.1	
		12-20-67	95.9	244.1	
		1-25-68	89.7	250.3	
		2-28-68	87.2	252.8	
		3-20-68	94.3	245.7	
		4-24-68	NM-1		
		5-22-68	102.7	237.3	
		6-27-68	NM-1		
		7-25-68	NM-1		
		8-23-68	NM-1		
		9-18-68	NM-1		
17S/26E-17P02 M	385.0	2-6-68	12.7	372.3	5001
17S/27E-34P01 M	473.0	2-6-68	15.0	458.0	5001
18S/22E-29A01 M	251.0	2-2-68	85.3	165.7	5001
18S/22E-36P01 M	245.0	10-03-67	93.4	151.6	5129
		11-06-67	84.7	160.3	
		12-03-67	80.2	164.8	
		12-30-67	77.7	167.3	
		1-31-68	74.8	170.2	
		3-02-68	84.6	160.4	
		3-30-68	88.8	156.2	
		4-29-68	98.1	146.9	5001
		5-30-68	91.8	153.2	
		6-27-68	105.4	139.6	
		7-29-68	109.8	135.2	
		8-27-68	117.5	127.5	
		9-24-68	111.9	133.1	
18S/23E-12H01 M	282.5	10-04-67	59.9	222.6	5001
		10-30-67	55.6	226.9	
		11-30-67	52.2	230.3	
		1-02-68	49.0	233.5	
		2-01-68	47.2	235.3	
		3-29-68	50.4	232.1	
		4-29-68	55.8	226.7	
		5-30-68	57.0	225.5	
		6-27-68	60.7	221.8	
		7-29-68	65.3	217.2	
		8-27-68	71.1	211.4	
		9-24-68	69.0	213.5	
18S/23E-34A01 M	271.0	1-27-68	94.6	176.4	5129
18S/24E-26A01 M	312.5	2-06-68	52.3	260.2	5001
18S/25E-12Q01 M	363.0	2-06-68	41.8	321.2	5001
18S/25E-33F01 M	338.0	2-05-68	33.9	304.1	5001
18S/26E-27E01 M	390.0	2-07-68	15.9	374.1	5001
18S/26E-30N01 M	367.0	10-04-67	15.8	351.2	5001
		10-30-67	16.2	350.8	
		11-30-67	16.4	350.6	
		1-02-68	16.3	350.7	
		2-01-68	16.5	350.5	
		2-29-68	16.1	350.9	
		3-29-68	18.5	348.5	
		4-29-68	21.0	346.0	
		5-30-68	25.5	341.5	
		6-27-68	25.5	341.5	
		7-29-68	25.8	341.2	
		8-27-68	26.2	340.8	
		9-24-68	26.7	340.3	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KAWEAH DELTA WATER CONSERV. DIST.		5-22.24			
19S/22E-01N02 M	245.0	2-09-68	64.5	180.5	5001
19S/22E-19A01 M	235.0	11-06-67	92.4	142.6	5129
		12-03-67	85.4	149.6	
		12-30-67	83.7	151.3	
		2-01-68	81.7	153.3	
		3-02-68	87.2	147.8	
		3-30-68	NM-1		
		4-22-68	107.6	127.4	5001
		5-22-68	113.9	122.1	
		6-24-68	129.9	105.1	
		7-23-68	133.8	102.2	
		8-23-68	134.7	100.3	
		9-16-68	127.3	107.7	
19S/22E-36E01 M	234.0	10-23-67	107.9	126.1	5001
		11-27-67	106.0	128.0	
		12-18-67	103.1	130.9	
		1-24-68	100.0	134.0	
		2-26-68	102.3	131.7	
		3-20-68	99.8	134.2	
		4-22-68	97.1	136.9	
		5-20-68	111.9	122.1	
		6-24-68	119.7	114.3	
		7-23-68	113.7	120.3	
		8-22-68	114.9	119.1	
		9-16-68	108.4	125.6	
19S/25E-07K01 M	320.0	10-04-67	23.1	296.9	5001
		10-30-67	NM-1		
		12-05-67	31.1	288.9	
		1-02-68	31.8	288.2	
		2-01-68	NM-1		
		3-02-68	34.1	285.9	
		3-29-68	37.6	282.4	
		4-29-68	41.3	278.7	
		5-30-68	43.2	276.8	
		6-27-68	45.2	274.8	
		7-29-68	48.7	271.3	
		8-27-68	51.0	269.0	
		9-24-68	52.8	267.2	
19S/26E-34R02 M	341.0	10-25-67	85.1	255.9	5001
		11-28-67	79.0	262.0	
		12-19-67	77.7	263.3	
		1-24-68	77.7	263.3	
		2-28-68	73.0	268.0	
		3-20-68	NM-1		
		4-24-68	NM-1		
		5-22-68	99.0	242.0	
		6-27-68	NM-1		
		7-25-68	NM-1		
		8-23-68	127.2	213.8	
		9-18-68	105.1	235.9	
20S/22E-10C01 M	226.0	2-09-68	99.5	126.5	5001
20S/25E-14F01 M	304.5	11-01-67	63.7	240.8	5001
		11-28-67	61.0	243.5	
		12-19-67	61.5	243.0	
		1-24-68	59.6	244.9	
		2-27-68	70.8	233.7	
		3-19-68	66.3	238.2	
		4-23-68	65.5	239.0	
		5-21-68	77.6	226.9	
		6-27-68	76.8	227.7	
		7-24-68	93.9	210.6	
		8-23-68	106.5	198.0	
		9-17-68	91.2	213.3	
TULARE IRRIGATION DISTRICT			5-22.25		
19S/23E-14R01 M	270.0	11-01-67	73.9	196.1	5001
		12-05-67	72.1	197.9	
		1-03-68	72.9	197.1	
		2-05-68	69.8	200.2	
		3-08-68	75.3	194.7	
		3-26-68	71.0	199.0	
		5-01-68	73.6	196.4	
		5-29-68	72.2	197.8	
		6-29-68	74.3	195.7	
		7-29-68	NM-1		
		8-23-68	NM-1		
		9-30-68	88.5	181.5	
19S/23E-32H01 M	250.5	2-00-68	83.0	167.5	5001
19S/24E-16P01 M	290.0	11-01-67	79.0	211.0	5001
		12-05-67	74.0	216.0	
		1-03-68	72.3	217.7	
		2-05-68	71.5	218.5	
		3-08-68	86.4	203.6	
		3-26-68	78.7	211.3	
		5-01-68	87.8	202.2	
		5-29-68	86.7	203.3	
		6-29-68	103.7	186.3	
		7-31-68	106.5	183.5	
		8-23-68	NM-1		
		9-30-68	105.4	184.6	
19S/24E-27Q01 M	290.0	11-01-67	NM-1		5001
		12-05-67	78.6	211.4	
		1-03-68	77.4	212.6	
		2-05-68	76.5	213.5	
		3-08-68	63.0	227.0	
		3-26-68	81.8	208.2	
		5-01-68	97.8	192.2	
		5-29-68	103.0	187.0	
		6-29-68	105.3	184.7	
TULARE IRRIGATION DISTRICT			5-22.25		
19S/24E-27Q01 M CONT.	290.0	7-31-68	118.3	171.7	5001
		8-23-68	125.0	165.0	
		9-30-68	108.5	181.5	
19S/25E-17A02 M	328.0	3-26-68	42.0	286.0	5001
		5-01-68	44.9	283.1	
		5-29-68	48.2	279.8	
		6-29-68	NM-1		
		7-31-68	NM-1		
		8-23-68	54.7	273.3	
		9-30-68	58.2	269.8	
19S/25E-17J01 M	327.0	11-01-67	46.0	281.0	5001
		12-05-67	NM-7		
		1-03-68	NM-7		
		2-05-68	NM-3		
		3-08-68	NM-7		
		3-09-68	NM-0		
20S/23E-08B02 M	241.0	11-01-67	99.0	142.0	5001
		12-05-67	95.5	145.5	
		1-03-68	93.0	148.0	
		2-02-68	91.0	150.0	
		3-08-68	95.5	145.5	
		3-26-68	92.5	148.5	
		5-01-68	93.7	147.3	
		5-29-68	97.3	143.7	
		6-29-68	103.2	137.8	
		7-31-68	102.6	138.4	
		8-23-68	108.8	132.2	
		9-30-68	107.0	134.0	
20S/24E-16H01 M	273.0	11-01-67	90.2	182.8	5001
		12-05-67	84.5	188.5	
		1-03-68	82.8	190.2	
		2-02-68	82.7	190.3	
		3-08-68	89.3	183.7	
		3-26-68	90.4	182.6	
		5-01-68	105.3	167.7	
		5-29-68	109.5	163.5	
		6-29-68	136.2	136.8	
		7-31-68	143.5	129.5	
		8-23-68	147.5	125.5	
		9-30-68	115.2	157.8	
20S/24E-30J02 M	250.0	11-01-67	99.3	150.7	5001
		12-05-67	97.0	153.0	
		1-03-68	NM-1		
		2-02-68	NM-3		
		2-27-68	98.1	151.9	
		3-26-68	101.2	148.8	
		5-01-68	109.0	141.0	
		5-29-68	NM-1		
		6-29-68	NM-1		
		7-31-68	NM-1		
		8-23-68	NM-1		
		9-30-68	103.6	146.4	
21S/23E-05R01 M	222.0	11-01-67	88.9	133.1	5001
		12-05-67	78.6	142.4	
		1-03-68	83.6	138.4	
		2-01-68	83.1	138.9	
		3-08-68	85.0	137.0	
		3-26-68	81.7	140.3	
		5-01-68	84.2	137.8	
		5-29-68	85.7	136.3	
		6-29-68	92.6	129.4	
		7-31-68	98.2	123.8	
		8-23-68	NM-1		
		9-30-68	107.5	114.5	
EXETER IRRIGATION DISTRICT			5-22.26		
18S/26E-25K01 M	436.0	10-30-67	52.4	383.6	5001
		11-29-67	50.3	385.7	
		12-20-67	49.2	386.8	
		1-24-68	47.1	388.9	
		2-28-68	46.0	390.0	
		3-20-68	45.6	390.4	
		4-29-68	48.5	387.5	
		5-22-68	51.4	384.6	
		6-27-68	56.7	379.3	
		7-25-68	58.0	378.0	
		8-23-68	59.7	376.3	
		9-18-68	65.5	370.5	
18S/26E-34P02 M	391.0	4-24-68	51.0	340.0	5001
		5-22-68	54.0	337.0	
		6-27-68	68.0	323.0	
		7-25-68	61.3	329.7	
		8-23-68	63.5	327.5	
		9-18-68	63.9	327.1	
18S/27E-29D01 M	447.0	10-25-67	NM-1		5001
		11-29-67	24.9	422.1	
		12-20-67	24.2	422.8	
		1-24-68	24.7	422.3	
		2-26-68	24.0	423.0	
		3-20-68	24.5	422.5	
		4-24-68	28.9	418.1	
		5-22-68	32.7	414.3	
		6-27-68	NM-1		
		7-25-68	NM-1		
		8-23-68	45.2	401.8	
		9-18-68	NM-1		
19S/26E-14E01 M	375.0	10-25-67	83.8	291.2	5001
		11-29-67	80.5	294.5	
		12-19-67	78.2	296.8	
		1-24-68	76.0	299.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EXETER IRRIGATION DISTRICT		5-22.26			
19S/26E-14E01 M	375.0	2-28-68	74.8	300.2	5001
CONT.		3-20-68	74.8	300.2	
		4-24-68	79.0	296.0	
		5-22-68	NM-1		
		6-27-68	NM-1		
		7-25-68	NM-1		
		8-23-68	NM-1		
		9-18-68	88.4	286.6	
19S/26E-23E01 M	359.0	2-00-68	85.9	273.1	5001
LINDSAY-STRATHMORE IRRIG. DIST.		5-22.27			
19S/27E-29D01 M	385.0	2-07-68	59.8	325.2	5001
20S/27E-06B01 M	372.0	10-24-67	54.1	317.9	5001
		11-28-67	53.7	318.3	
		12-19-67	NM-1		
		1-24-68	53.8	318.2	
		2-28-68	54.2	317.8	
		3-20-68	54.4	317.6	
		4-24-68	54.4	317.6	
		5-22-68	53.6	318.4	
		6-27-68	55.3	316.7	
		7-25-68	53.5	318.5	
		8-23-68	54.0	318.0	
		9-18-68	54.5	317.5	
20S/27E-21F01 M	414.0	2-07-68	34.9	379.1	5001
20S/27E-29J01 M	406.0	2-07-68	32.8	373.2	5001
LINDMORE IRRIGATION DISTRICT		5-22.28			
20S/26E-01P01 M	360.0	10-24-67	88.0	272.0	5001
		11-28-67	86.8	273.2	
		12-19-67	85.7	274.3	
		1-24-68	70.1	289.9	
		2-28-68	68.9	291.1	
		3-20-68	68.3	291.7	
		4-24-68	NM-1		
		5-22-68	83.0	277.0	
		6-27-68	96.8	263.2	
		7-24-68	NM-1		
		8-23-68	117.2	242.8	
		9-18-68	105.0	255.0	
20S/26E-22C02 M	341.0	2-06-68	91.5	249.5	5001
20S/26E-24K01 M	362.5	10-24-67	68.6	293.9	5001
		11-28-67	67.5	295.0	
		12-19-67	67.3	295.2	
		1-25-68	65.8	296.7	
		2-27-68	65.2	297.3	
		3-19-68	65.4	297.1	
		4-23-68	67.4	295.1	
		5-21-68	68.4	294.1	
		6-25-68	73.4	289.1	
		7-24-68	77.1	285.4	
		8-23-68	76.6	285.9	
		9-17-68	75.6	286.9	
20S/26E-32A01 M	331.5	10-24-67	103.8	227.7	5001
		11-28-67	99.5	232.0	
		12-19-67	98.5	233.0	
		1-25-68	95.0	236.5	
		2-27-68	94.3	237.2	
		3-19-68	102.0	229.5	
		4-23-68	117.3	214.2	
		5-21-68	117.9	213.6	
		6-25-68	116.7	214.8	
		7-24-68	NM-1		
		8-23-68	116.0	215.5	
		9-18-68	111.8	219.7	
20S/27E-29E01 M	392.0	10-24-67	39.3	352.7	5001
		11-28-67	38.0	354.0	
		12-19-67	37.5	354.5	
		1-25-68	36.8	355.2	
		2-27-68	36.6	355.4	
		3-19-68	36.8	355.2	
		4-23-68	40.0	352.0	
		5-21-68	NM-1		
		6-25-68	45.9	346.1	
		7-24-68	NM-1		
		8-23-68	48.6	343.4	
		9-17-68	NM-1		
21S/27E-02E01 M	429.0	11-02-67	NM-0		5001
PORTERVILLE IRRIGATION DISTRICT		5-22.29			
21S/27E-21C01 M	409.0	11-02-67	20.9	388.1	5001
		11-28-67	19.2	389.2	
		12-19-67	17.5	391.5	
		1-25-68	16.8	392.2	
		2-27-68	16.1	392.9	
		3-19-68	NM-1		
		4-23-68	16.5	392.5	
		5-21-68	17.1	391.9	
		6-25-68	18.5	390.5	
		7-24-68	22.8	386.2	
		8-23-68	21.9	387.1	
		9-17-68	22.5	386.5	
21S/27E-28E01 M	420.0	11-07-67	11.8	408.2	5001
		11-24-67	12.6	407.4	
		12-20-67	14.5	405.5	
		1-23-68	12.1	407.9	
		2-26-68	13.2	406.8	
LINDMORE IRRIGATION DISTRICT		5-22.29			
21S/27E-28E01 M	420.0	3-20-68	14.2	405.8	5001
CONT.		4-22-68	16.7	403.3	
		5-21-68	17.2	402.8	
		6-20-68	NM-1		
		7-22-68	20.7	399.3	
		8-21-68	NM-1		
		9-20-68	NM-1		
22S/26E-01J01 M	395.0	11-07-67	80.9	314.1	5001
		11-24-67	NM-1		
		12-20-67	75.9	319.1	
		1-23-68	75.0	320.0	
		2-26-68	74.1	320.9	
		3-20-68	76.1	318.9	
		4-22-68	77.4	317.6	
		5-21-68	NM-7		
		6-20-68	76.1	318.9	
		7-22-68	96.9	298.1	5608
		8-21-68	NM-1		
		9-23-68	87.5	307.5	
22S/27E-10R01 M	467.0	2-00-68	110.3	356.7	5001
LOWER TULE RIVER IRRIGATION DIST.		5-22.30			
21S/23E-22J01 M	221.5	2-09-68	78.9	142.6	5001
21S/24E-15H01 M	253.0	2-08-68	44.5	208.5	5001
21S/24E-31D01 M	230.0	11-02-67	76.2	153.8	5001
		11-30-67	74.5	155.5	
		12-30-67	74.1	155.9	
		1-30-68	72.9	157.1	
		2-29-68	71.9	158.1	
		3-26-68	72.0	158.0	
		4-30-68	73.6	156.4	
		5-28-68	74.4	155.6	
		6-27-68	79.1	150.9	
		7-30-68	82.0	148.0	
		8-29-68	83.3	146.7	
		9-27-68	86.1	143.9	
21S/24E-35M01 M	251.0	11-02-67	83.5	167.5	5001
		11-30-67	81.0	170.0	
		12-30-67	79.8	171.2	
		1-30-68	78.7	172.3	
		2-29-68	78.4	172.6	
		3-26-68	78.0	173.0	
		4-30-68	79.2	171.8	
		5-28-68	81.5	169.5	
		6-27-68	82.6	168.4	
		7-30-68	83.1	167.9	
		8-29-68	85.2	165.8	
		9-27-68	88.3	162.7	
21S/25E-08H01 M	285.0	2-08-68	NM-1		5001
21S/25E-16A01 M	291.0	11-03-67	NM-0		5001
21S/26E-06G02 M	322.0	11-02-67	78.3	243.7	5001
		12-01-67	63.8	258.2	
		12-30-67	61.0	261.0	
		1-30-68	59.5	262.5	
		2-29-68	70.7	251.3	
		3-26-68	79.2	242.8	
		4-30-68	NM-7		
		5-28-68	95.9	226.1	
		6-27-68	119.4	202.6	
		7-31-68	129.5	192.5	
		8-30-68	118.5	203.5	
		9-27-68	106.6	215.4	
22S/25E-10E01 M	296.0	11-02-67	97.6	198.4	5001
		11-30-67	96.5	199.5	
		12-30-67	95.4	200.6	
		1-30-68	94.6	201.4	
		2-29-68	95.9	200.1	
		3-26-68	95.0	201.0	
		4-30-68	99.5	196.5	
		5-28-68	99.5	196.5	
		6-27-68	101.1	194.9	
		7-31-68	101.6	194.4	
		8-29-68	101.3	194.7	
		9-27-68	103.3	192.7	
22S/24E-09A01 M	245.0	11-02-67	115.9	129.1	5001
		11-30-67	113.0	132.0	
		12-30-67	112.3	132.7	
		1-30-68	111.1	133.9	
		2-29-68	111.4	133.6	
		3-26-68	101.6	143.4	
		4-30-68	112.9	132.1	
		5-28-68	112.9	132.1	
		6-27-68	NM-1		
		7-31-68	118.8	126.2	
		8-29-68	118.2	126.8	
		9-27-68	118.1	126.9	
22S/24E-15A01 M	251.5	2-06-68	128.4	123.1	5001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LOWER TULE RIVER IRRIGATION DIST.			5-22.30		
22S/25E-15A01 M	300.5	2-03-68	133.8	166.7	5001
22S/26E-06A01 M	337.0	2-07-68	110.5	226.5	5001
VANDALIA IRRIGATION DISTRICT			5-22.31		
22S/28E-07Q01 M	524.0	10-24-67	138.2	385.8	5001
		11-28-67	130.5	393.5	
		12-19-67	127.7	396.3	
		1-25-68	124.9	399.1	
		2-26-68	125.6	398.4	
		3-19-68	123.0	401.0	
		4-23-68	123.7	400.3	
		5-21-68	NM-1		
		6-25-68	NM-1		
		7-24-68	132.0	392.0	
		8-23-68	133.1	390.9	
		9-17-68	NM-1		
22S/28E-18A01 M	535.0	10-24-67	124.7	410.3	5001
		11-28-67	118.2	416.8	
		12-19-67	114.6	420.4	
		1-25-68	112.5	422.5	
		2-27-68	107.4	427.6	
		3-19-68	105.5	429.5	
		4-23-68	110.6	424.4	
		5-21-68	116.9	418.1	
		6-25-68	124.1	410.9	
		7-24-68	132.9	402.1	
		8-23-68	129.0	406.0	
		9-17-68	136.8	398.2	
SAUCELITO IRRIGATION DISTRICT			5-22.32		
22S/26E-15J01 M	371.0	10-24-67	131.7	239.3	5001
		11-28-67	129.4	241.6	
		12-19-67	127.1	243.9	
		1-25-68	123.5	247.5	
		2-27-68	126.3	244.7	
		3-19-68	137.9	233.1	
		4-23-68	NM-1		
		5-21-68	NM-1		
		6-25-68	NM-1		
		7-24-68	NM-1		
		8-23-68	NM-1		
		9-17-68	146.9	224.1	
22S/26E-32E01 M	339.0	10-24-67	191.5	147.5	5001
		11-28-67	190.4	148.6	
		12-19-67	NM-9		
		1-24-68	191.1	147.9	
		2-27-68	193.9	145.1	
		3-19-68	197.3	141.7	
		4-23-68	NM-1		
		5-21-68	206.3	132.7	
		6-25-68	211.6	127.4	
		7-24-68	NM-1		
		8-23-68	219.0	120.0	
		9-17-68	NM-1		
23S/26E-02R01 M	397.0	2-06-68	153.5	243.5	5001
23S/26E-03R01 M	381.0	10-24-67	181.9	199.1	5001
		11-28-67	170.1	210.9	
		12-19-67	163.8	217.2	
		1-25-68	170.5	210.5	
		2-27-68	176.5	204.5	
		3-19-68	NM-1		
		4-23-68	NM-1		
		5-21-68	192.1	188.9	
		6-25-68	NM-1		
		7-24-68	210.9	170.1	
		8-23-68	208.2	172.8	
		9-17-68	196.7	184.3	
PIXLEY IRRIGATION DISTRICT			5-22.33		
22S/25E-25N01 M	310.0	11-02-67	198.0	112.0	5001
		11-28-67	186.0	124.0	
		12-19-67	182.0	128.0	
		1-24-68	178.4	131.6	
		2-27-68	188.0	122.0	
		3-18-68	189.0	121.0	
		4-23-68	196.5	113.5	
		5-21-68	201.8	108.2	
		6-24-68	228.0	82.0	
		7-24-68	232.9	77.1	
		8-23-68	228.4	81.6	
		9-16-68	220.6	89.4	
23S/23E-02B01 M	207.0	2-01-68	37.6	169.4	5001
23S/24E-16R01 M	222.0	10-23-67	132.7	89.3	5001
		11-27-67	130.1	91.9	
		12-18-67	127.6	94.4	
		1-24-68	124.0	98.0	
		2-26-68	123.4	98.6	
		3-18-68	124.0	98.0	
		4-22-68	127.0	95.0	
		5-20-68	128.9	93.1	
		6-24-68	131.2	90.8	
		7-23-68	134.1	87.9	
		8-23-68	136.1	85.9	
		9-16-68	137.5	84.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PIXLEY IRRIGATION DISTRICT			5-22.33		
23S/25E-14C01 M	300.0	2-00-68	NM-0		5001
23S/25E-16N04 M	263.0	10-26-67	85.1	177.9	5000
		11-23-67	83.2	179.8	
		12-21-67	82.3	180.7	
		1-17-68	81.4	181.6	
		2-14-68	80.9	182.1	
		3-13-68	81.7	181.3	
		4-10-68	83.4	179.6	
		5-08-68	84.2	178.8	
		6-05-68	86.4	176.6	
		7-03-68	89.8	173.2	
		8-28-68	94.0	169.0	
		9-25-68	93.0	170.0	
23S/26E-08R01 M	345.0	10-24-67	180.0	165.0	5001
		11-28-67	176.3	168.7	
		12-19-67	175.2	169.8	
		1-24-68	169.6	175.4	
		2-27-68	173.6	171.4	
		3-19-68	172.4	172.6	
		4-23-68	173.1	171.9	
		5-21-68	175.3	169.7	
		6-25-68	185.7	159.3	
		7-24-68	192.3	152.7	
		8-23-68	196.1	148.9	
		9-17-68	193.5	151.5	
ALPAUGH-ALLENSWORTH AREA			5-22.34		
22S/23E-28L01 M	196.0	10-23-67	NM-9		5001
		11-27-67	66.5	129.5	
		12-19-67	62.8	133.2	
		1-24-68	61.8	134.2	
		2-26-68	71.1	124.9	
		3-18-68	65.9	130.1	
		4-22-68	84.6	111.4	
		5-20-68	88.7	107.3	
		6-24-68	100.8	95.2	
		7-23-68	103.3	92.7	
		8-22-68	104.0	92.0	
		9-16-68	94.4	101.6	
23S/23E-33A01 M	210.0	10-23-67	NM-0		5001
24S/23E-21B02 M	204.0	2-00-68	NM-0		5001
24S/23E-34R01 M	206.0	2-01-68	186.7	19.3	5001
24S/24E-20R01 M	218.0	10-23-67	NM-1		5001
		11-27-67	195.9	22.1	
		12-18-67	194.7	23.3	
		1-24-68	NM-1		
		2-26-68	176.1	41.9	
		3-18-68	175.1	42.9	
		4-22-68	190.9	27.1	
		5-20-68	198.0	20.0	
		6-24-68	213.2	4.8	
		7-23-68	225.0	-7.0	
		8-22-68	234.8	-16.8	
		9-16-68	246.8	-28.8	
24S/24E-23Q01 M	235.0	2-01-68	72.7	162.3	5001
DELANO-EARLIMART IRRIGATION DIST.			5-22.35		
23S/25E-27J02 M	296.0	2-02-68	88.0	208.0	5001
23S/26E-29P01 M	356.5	2-02-68	168.5	188.0	5001
23S/27E-28J01 M	533.3	2-00-68	NM-0		5001
24S/25E-02H01 M	321.0	10-23-67	99.6	221.4	5001
		11-27-67	93.5	227.5	
		12-19-67	NM-1		
		1-24-68	NM-1		
		3-04-68	98.2	222.8	
		3-18-68	98.4	222.6	
		4-22-68	98.8	222.2	
		5-20-68	99.5	221.5	
		6-24-68	104.3	216.7	
		7-23-68	104.5	216.5	
		8-23-68	101.4	219.6	
		9-16-68	101.5	219.5	
24S/25E-10A01 M	304.0	2-01-68	109.0	195.0	5001
24S/25E-33J01 M	291.5	2-01-68	61.5	230.0	5001
24S/26E-05R01 M	376.0	2-01-68	161.0	215.0	5001
24S/26E-20H01 M	378.0	2-01-68	139.0	239.0	5001
24S/26E-29R02 M	400.0	10-24-67	134.6	265.4	5000
		11-21-67	132.5	267.5	
		12-27-67	134.5	265.5	
		1-29-68	129.4	270.6	
		2-20-68	129.1	270.9	
		3-18-68	129.9	270.1	
		4-24-68	140.6	259.4	
		5-20-68	143.0	257.0	
		6-25-68	158.5	241.5	
		7-22-68	159.9	240.1	
		8-26-68	155.0	245.0	
		9-24-68	149.8	250.2	
24S/26E-32G01 M	396.0	1-31-68	119.0	277.0	5001

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELANO-EARLIMART IRRIGATION DIST.			5-22.35		
24S/26E-34F01 M	445.0	10-26-67	230.1	214.9	5000
		11-23-67	220.4	224.6	
		12-21-67	214.3	230.7	
		1-17-68	211.4	233.6	
		2-14-68	210.3	234.7	
		3-13-68	211.8	233.2	
		4-10-68	226.3	218.7	
		5-08-68	248.9	196.1	
		6-06-68	270.0	175.0	
		7-03-68	287.6	157.4	
		8-28-68	278.8	166.2	
		9-25-68	263.3	181.7	
24S/27E-31P01 M	526.5	2-00-68	NM-0		5001
25S/26E-10B03 M	430.0	1-30-68	190.5	239.5	5001
25S/26E-16P01 M	388.0	10-24-67	87.5	300.5	5000
		11-21-67	89.5	299.5	
		12-27-67	86.9	301.1	
		1-29-68	90.2	297.8	
		2-20-68	90.0	298.0	
		3-18-68	89.5	298.5	
		4-24-68	88.7	299.3	
		5-20-68	88.1	299.9	
		6-25-68	86.4	301.6	
		7-22-68	93.1	294.9	
		8-26-68	87.3	300.7	
		9-24-68	86.9	301.1	
25S/27E-22H01 M	750.0	1-31-68	406.8	343.2	5001
SOUTHERN SAN JOAQUIN MUD			5-22.36		
25S/24E-12A02 M	253.0	10-24-67	107.7	145.3	5000
		11-21-67	91.6	161.4	
		12-27-67	75.3	177.7	
		1-29-68	76.2	176.8	
		2-20-68	NM-1		
		3-19-68	87.6	165.4	
		4-24-68	87.8	165.2	
		5-20-68	90.8	162.2	
		6-25-68	NM-1		
		7-23-68	NM-1		
		8-27-68	112.3	140.7	
		9-24-68	98.1	154.9	
25S/25E-06H01 M	259.0	2-01-68	65.0	194.0	5001
25S/25E-35P01 M	322.0	2-00-68	NM-0		5001
25S/26E-28E01 M	394.0	10-24-67	141.0	253.0	5000
		11-21-67	141.5	252.5	
		12-27-67	139.5	254.5	
		1-29-68	137.3	256.7	
		2-20-68	136.3	257.7	
		3-18-68	138.6	255.4	
		4-24-68	140.0	254.0	
		5-20-68	142.0	252.0	
		6-25-68	154.8	239.2	
		7-22-68	155.7	238.3	
		8-27-68	158.5	235.5	
		9-24-68	150.1	243.9	
25S/26E-28H02 M	414.0	2-02-68	191.0	223.0	5001
26S/26E-10R01 M	503.0	10-24-67	NM-3		5000
		10-25-67	NM-0		
26S/26E-16P01 M	443.0	2-00-68	NM-7		5001
26S/26E-29C01 M	411.0	10-24-67	271.5	139.5	5000
		11-21-67	257.5	153.5	
		12-27-67	254.9	156.1	
		12-28-67	NM-0		
NORTH KERN WATER STORAGE DISTRICT			5-22.37		
26S/25E-15P01 M	346.7	10-24-67	209.0	137.7	5000
		11-21-67	197.0	149.7	
		12-27-67	178.0	168.7	
		1-29-68	NM-1		
		2-20-68	NM-1		
		3-18-68	189.0	157.7	
		4-24-68	NM-1		
		5-20-68	224.0	122.7	
		6-25-68	283.0	63.7	
		7-22-68	NM-1		
		8-27-68	291.0	55.7	
		9-24-68	NM-1		
26S/25E-15R01 M	352.3	2-01-68	177.6	174.7	5700
26S/26E-30P01 M	392.0	1-10-68	223.0	169.0	5700
27S/25E-01N01 M	394.0	10-24-67	120.0	274.0	5000
		11-21-67	100.0	294.0	
		12-27-67	97.8	296.2	
		1-29-68	98.0	296.0	
		2-20-68	99.4	294.6	
		3-19-68	102.2	291.8	
		4-24-68	101.6	292.4	
		5-20-68	103.4	290.6	
		6-25-68	107.9	286.1	
		7-23-68	113.8	280.2	
		8-27-68	116.2	277.8	
		9-24-68	118.0	276.0	
27S/26E-06H02 M	416.0	2-01-68	NM-1		5001
NORTH KERN WATER STORAGE DISTRICT			5-22.37		
27S/26E-20D01 M	445.5	10-24-67	312.5	133.0	5000
		10-21-67	305.6	139.9	
		11-27-67	299.5	146.0	
		1-29-68	NM-1		
		2-20-68	NM-1		
		3-19-68	326.5	119.0	
		3-20-68	NM-0		
27S/26E-20E01 M	435.7	2-24-68	298.6	137.1	5700
27S/27E-30H02 M	527.0	2-01-68	419.0	108.0	5001
28S/25E-13L01 M	361.1	2-09-68	191.1	170.0	5700
28S/26E-21H01 M	388.0	10-24-67	162.0	226.0	5000
		11-21-67	154.5	233.5	
		12-27-67	156.3	231.7	
		1-29-68	156.7	231.3	
		2-20-68	154.6	233.4	
		3-19-68	156.8	231.2	
		4-24-68	158.5	229.5	
		5-20-68	160.5	227.5	
		6-25-68	164.5	223.5	
		7-23-68	168.9	219.1	
		8-27-68	173.4	214.6	
		9-24-68	175.5	212.5	
SHAFTER-WASCO IRRIGATION DISTRICT			5-22.38		
27S/24E-35C01 M	316.0	2-06-68	213.8	102.2	5700
27S/25E-28A01 M	375.0	10-24-67	235.0	140.0	5000
		11-21-67	234.0	141.0	
		12-27-67	245.6	129.4	
		1-29-68	228.4	146.6	
		2-20-68	NM-1		
		3-19-68	251.0	124.0	
		4-24-68	NM-1		
		5-20-68	NM-1		
		6-25-68	278.0	97.0	
		7-23-68	NM-1		
		8-27-68	281.5	93.5	
		9-25-68	268.9	106.1	
28S/25E-16P01 M	329.0	10-24-67	205.0	124.0	5000
		11-21-67	194.0	135.0	
		12-27-67	185.7	143.3	
		1-29-68	185.6	143.4	
		2-20-68	184.7	144.3	
		3-19-68	188.4	140.6	
		4-24-68	190.0	139.0	
		5-20-68	183.2	135.8	
		6-25-68	202.0	127.0	
		7-23-68	206.9	122.1	
		8-27-68	202.9	126.1	
		9-24-68	199.6	129.4	
KERN RIVER DELTA AREA			5-22.40		
28S/24E-23D01 M	306.0	10-24-67	210.0	96.0	5000
		10-25-67	NM-0		
28S/26E-29L01 M	349.0	2-14-68	244.1	104.9	5700
29S/25E-12M03 M	330.0	10-24-67	164.5	165.5	5000
		11-21-67	155.5	174.5	
		12-27-67	160.3	169.7	
		1-29-68	159.3	170.7	
		2-20-68	152.0	178.0	
		3-19-68	158.3	171.7	
		4-24-68	161.0	169.0	
		5-20-68	165.1	164.9	
		6-25-68	170.8	159.2	
		7-23-68	172.8	157.2	
		8-28-68	173.5	156.5	
		9-24-68	161.5	168.5	
29S/27E-33D01 M	380.0	10-24-67	68.1	311.9	5000
		11-21-67	66.0	314.0	
		12-27-67	72.8	307.2	
		1-29-68	73.4	306.6	
		2-20-68	74.3	307.7	
		3-19-68	80.3	299.7	
		4-24-68	85.3	294.7	
		5-20-68	81.4	298.6	
		6-26-68	92.9	287.1	
		7-23-68	95.9	284.1	
		8-28-68	97.4	282.6	
		9-25-68	97.8	282.2	
30S/25E-22D01 M	308.5	10-04-67	66.9	241.6	5640
		11-02-67	65.9	242.6	
		12-02-67	64.4	244.1	
		1-02-68	63.8	244.7	
		2-06-68	65.3	243.2	
		3-04-68	65.3	243.2	
		4-02-68	65.4	243.1	
		5-01-68	65.8	242.7	
		5-31-68	67.0	241.5	
		7-03-68	65.9	242.6	
		8-04-68	69.3	239.2	
		8-29-68	70.0	238.5	
30S/26E-16J01 M	339.1	1-25-68	NM-9		5121
30S/26E-22P02 M	338.0	10-24-67	100.5	237.5	5000
		11-21-67	103.5	235.0	
		12-27-67	78.2	259.8	
		1-29-68	83.5	254.5	
		2-20-68	84.4	253.6	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KERN RIVER DELTA AREA			5-22.40		
30S/26E-22P02 M CONT.	338.0	3-19-68	85.3	252.7	5000
		4-24-68	91.1	246.9	
		5-20-68	NM-7		
		6-25-68	100.4	237.6	
		7-23-68	100.4	237.6	
		8-27-68	100.2	237.8	
		9-25-68	98.7	239.3	
30S/28E-32B01 M	354.4	1-29-68	115.0	239.4	5001
30S/28E-34R02 M	359.0	10-24-67	99.0	260.0	5000
		11-21-67	97.0	263.0	
		12-28-67	99.7	259.3	
		1-30-68	98.8	260.2	
		2-20-68	97.6	261.4	
		3-20-68	100.1	258.9	
		4-24-68	99.6	259.4	
		5-20-68	100.5	258.5	
		6-25-68	101.2	257.8	
		7-23-68	103.1	255.9	
		8-28-68	102.5	256.5	
		9-25-68	100.8	258.2	
31S/26E-01A01 M	333.0	1-24-68	107.9	225.1	5121
31S/26E-35D01 M	294.5	1-24-68	50.1	244.4	5121
31S/27E-04L01 M	341.1	1-25-68	121.6	219.5	5700
31S/27E-28J01 M	312.1	1-24-68	77.5	234.6	5121
31S/28E-30M01 M	314.7	1-25-68	85.0	229.7	5700
32S/26E-36G01 M	378.0	1-22-68	170.2	207.8	5121
32S/27E-18E01 M	292.6	2-23-68	190.3	102.3	5700
32S/28E-04A01 M	303.0	2-00-68	NM-0		5001
EDISON-MARICOPA AREA			5-22.41		
29S/29E-33N01 M	578.0	2-00-68	NM-0		5001
30S/28E-02R01 M	410.0	1-29-68	195.0	215.0	5001
30S/28E-10N01 M	372.0	10-24-67	48.0	325.0	5000
		11-21-67	46.5	326.5	
		12-27-67	47.8	325.2	
		1-29-68	49.6	323.4	
		2-20-68	52.5	319.5	
		3-20-68	53.4	318.6	
		4-24-68	47.9	324.1	
		5-20-68	50.2	321.8	
		6-25-68	52.0	320.0	
		7-23-68	52.0	320.0	
		8-28-68	52.3	319.7	
		9-25-68	52.2	319.8	
30S/28E-10N04 M	372.0	10-24-67	179.5	192.5	5000
		11-21-67	160.5	211.5	
		12-27-67	172.0	200.0	
		1-29-68	172.9	199.1	
		2-20-68	173.1	198.9	
		3-19-68	168.6	203.4	
		4-24-68	178.0	194.0	
		5-20-68	179.9	192.1	
		6-25-68	186.8	185.2	
		7-23-68	188.6	183.4	
		8-28-68	189.9	182.1	
		9-25-68	187.8	184.2	
30S/29E-05F01 M	515.0	1-29-68	359.0	156.0	5001
30S/29E-26A01 M	628.0	1-30-68	474.0	154.0	5001
30S/30E-20R01 M	791.5	1-30-68	195.5	596.0	5001
31S/29E-09A01 M	468.0	1-30-68	350.8	117.2	5001
31S/29E-29A01 M	400.0	1-30-68	139.3	260.7	5001
31S/30E-21G01 M	536.0	1-29-68	NM-1		5001
32S/25E-35N02 M	442.5	1-22-68	150.0	292.5	5121
32S/28E-23R01 M	386.7	1-29-68	274.5	112.2	5001
32S/28E-30D04 M	303.0	10-25-67	NM-7		5000
		11-22-67	NM-9		
		12-28-67	NM-7		
		12-29-67	NM-0		
32S/29E-19H02 M	416.0	10-25-67	209.0	207.0	5000
		11-22-67	207.0	209.0	
		12-28-67	203.6	212.4	
		1-30-68	203.2	212.8	
		2-21-68	203.5	212.5	
		3-20-68	204.5	211.5	
		4-24-68	205.0	211.0	
		5-21-68	205.8	210.2	
		6-26-68	203.6	212.4	
		7-23-68	203.3	212.7	
		8-28-68	203.4	212.6	
		9-25-68	203.5	212.5	
32S/29E-19H03 M	416.0	10-25-67	364.5	51.5	5000
		11-22-67	327.5	88.5	
		12-28-67	311.0	105.0	
		1-30-68	315.3	100.7	
		2-21-68	319.4	96.6	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EDISON-MARICOPA AREA			5-22.41		
32S/29E-19H03 M CONT.	416.0	3-20-68	350.2	65.8	5000
		4-24-68	361.6	54.4	
		5-21-68	364.2	51.8	
		6-26-68	380.1	35.9	
		7-23-68	370.2	45.8	
		8-28-68	373.0	43.0	
		9-25-68	346.3	69.7	
32S/29E-21P01 M	473.0	10-25-67	209.8	263.2	5000
		10-26-67	NM-0		
11N/18W-06P01 S	657.0	1-30-68	NM-0		5001
11N/18W-28D01 S	850.0	1-30-68	130.0	720.0	5001
11N/19W-04H01 S	575.9	1-30-68	424.0	151.9	5001
11N/19W-07R03 S	673.0	10-25-67	490.5	182.5	5000
		11-22-67	493.5	179.5	
		12-28-67	493.2	179.8	
		1-30-68	494.1	178.9	
		2-21-68	503.1	169.9	
		3-20-68	500.6	172.4	
		4-24-68	494.6	178.4	
		5-21-68	496.9	176.1	
		6-26-68	505.8	167.2	
		7-23-68	510.9	162.1	
		8-28-68	511.7	161.3	
		9-25-68	506.7	166.3	
11N/20W-07Q01 S	452.3	1-31-68	517.9	-65.6	5700
11N/20W-18F01 S	484.7	1-29-68	340.5	144.2	5001
11N/20W-24A01 S	730.2	1-29-68	541.6	188.6	5700
11N/21W-05M01 S	515.9	2-00-68	NM-0		5700
11N/22W-04H01 S	529.0	1-08-68	454.3	74.7	5700
12N/20W-31R01 S	363.0	1-29-68	246.2	116.8	5001
12N/21W-29N01 S	423.3	1-22-68	338.0	85.3	5121
12N/23W-28P01 S	498.0	1-22-68	266.0	232.0	5121
BUENA VISTA WATER STORAGE DIST.			5-22.42		
27S/22E-16B01 M	238.0	10-25-67	59.9	178.1	5000
		11-22-67	58.5	179.5	
		11-23-67	NM-0		
27S/22E-21F02 M	240.0	2-02-68	17.0	223.0	5121
27S/22E-32H01 M	241.0	10-25-67	124.6	116.4	5000
		11-22-67	122.5	118.5	
		12-28-67	106.8	134.2	
		1-30-68	116.6	124.4	
		2-21-68	116.3	124.7	
		3-21-68	117.3	123.7	
		4-25-68	121.0	120.0	
		5-21-68	125.4	115.6	
		6-26-68	127.1	113.9	
		7-24-68	132.5	108.5	
		8-28-68	135.5	105.5	
		9-25-68	135.7	105.3	
28S/22E-09D01 M	240.0	10-25-67	12.4	227.6	5000
		11-22-67	12.2	227.8	
		12-28-67	12.1	227.9	
		1-30-68	12.7	227.3	
		2-21-68	14.0	226.0	
		3-20-68	12.5	227.5	
		4-25-68	14.2	225.8	
		5-21-68	15.3	224.7	
		6-26-68	15.1	224.9	
		7-24-68	15.2	224.8	
		8-28-68	14.3	225.7	
		9-25-68	13.7	226.3	
28S/22E-10D02 M	245.0	1-29-68	12.0	233.0	5121
28S/23E-31R01 M	257.8	10-02-67	26.5	231.3	5640
		2-02-68	38.5	219.3	
29S/23E-08A01 M	260.3	10-02-67	30.7	229.6	5640
		2-02-68	45.8	214.5	
29S/23E-27M01 M	270.0	10-25-67	40.2	229.8	5000
		11-22-67	39.2	240.8	
		12-28-67	37.9	232.1	
		1-30-68	38.1	231.9	
		2-21-68	44.1	225.9	
		3-20-68	NM-1		
		4-25-68	42.5	227.5	
		5-21-68	42.8	227.2	
		6-25-68	42.9	227.1	
		7-24-68	49.0	221.0	
		8-28-68	48.9	221.1	
		9-25-68	45.9	224.1	
30S/23E-01D01 M	276.8	10-02-67	57.7	219.1	5640
		2-06-68	67.7	209.1	
30S/24E-02C01 M	287.0	10-02-67	89.8	197.2	5640
		2-01-68	NM-1		
30S/24E-04C01 M	282.0	10-25-67	67.5	214.5	5000
		11-22-67	62.5	219.5	
		12-28-67	62.9	219.1	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
BUENA VISTA WATER STORAGE DIST.		5-22.42			
30S/24E-04C01 M CONT.	282.0	1-30-68	80.5	201.5	5000
		2-21-68	75.9	206.1	
		3-20-68	77.1	204.9	
		4-25-68	76.3	205.7	
		5-21-68	71.9	210.1	
		6-26-68	79.6	202.4	
		7-24-68	90.1	191.9	
		8-28-68	90.1	191.9	
		9-25-68	75.7	206.3	
31S/25E-27F01 M	283.0	10-25-67	22.2	260.8	5000
		11-22-67	NM-1		
		12-28-67	18.2	264.8	
		1-30-68	17.4	265.6	
		2-21-68	18.6	264.4	
		3-20-68	18.5	264.5	
		4-25-68	21.6	261.4	
		5-21-68	22.8	260.2	
		6-26-68	39.6	243.4	
		7-24-68	48.7	234.3	
		8-28-68	48.1	234.9	
		9-25-68	50.0	233.0	
SEMITROPIC WATER STORAGE DISTRICT		5-22.43			
25S/22E-02N02 M	212.0	10-24-67	71.1	140.9	5000
		11-21-67	71.8	140.2	
		12-27-67	70.3	141.7	
		1-29-68	69.5	142.5	
		2-20-68	68.8	143.2	
		3-19-68	68.5	143.5	
		4-24-68	69.1	142.9	
		5-20-68	69.5	142.5	
		6-25-68	74.0	138.0	
		7-23-68	76.7	135.3	
		8-27-68	79.2	132.8	
		9-24-68	80.8	131.2	
25S/22E-14G01 M	215.0	2-01-68	164.5	50.5	5121
25S/23E-28D01 M	217.0	10-24-67	108.0	109.0	5000
		11-21-67	102.0	115.0	
		12-27-67	97.7	119.3	
		1-29-68	93.0	124.0	
		2-20-68	95.2	121.8	
		3-19-68	96.3	120.7	
		4-24-68	97.9	119.1	
		5-20-68	100.4	116.6	
		6-25-68	103.3	113.7	
		7-23-68	107.5	109.5	
		8-27-68	109.4	107.6	
		9-24-68	109.5	107.5	
25S/23E-28D03 M	217.0	10-24-67	259.0	-42.0	5000
		11-21-67	207.0	10.0	
		12-27-67	181.5	35.5	
		1-29-68	171.4	45.6	
		2-20-68	177.6	39.4	
		3-19-68	193.5	23.5	
		4-24-68	197.4	19.6	
		5-20-68	205.0	12.0	
		6-25-68	247.4	-30.4	
		7-23-68	269.9	-52.9	
		8-27-68	279.2	-62.2	
		9-24-68	273.6	-56.6	
25S/24E-07R01 M	228.0	2-01-68	NM-0		5001
25S/24E-15H01 M	248.0	10-24-67	87.5	160.5	5000
		11-21-67	86.5	161.5	
		12-27-67	85.5	162.5	
		1-29-68	85.8	162.2	
		2-20-68	86.9	161.1	
		3-19-68	85.2	162.8	
		4-24-68	85.1	162.9	
		5-20-68	84.9	163.1	
		6-25-68	92.9	155.1	
		7-23-68	85.7	162.3	
		8-27-68	86.2	161.8	
		9-24-68	85.7	162.3	
25S/24E-30H01 M	237.4	1-31-68	185.3	52.1	5001
26S/21E-14E01 M	244.0	10-25-67	36.0	208.0	5000
		11-22-67	35.8	208.2	
		12-28-67	35.5	208.5	
		1-30-68	35.6	208.4	
		2-21-68	35.7	208.3	
		3-21-68	35.5	208.5	
		4-25-68	35.6	208.4	
		5-21-68	35.6	208.4	
		6-26-68	36.0	208.0	
		7-24-68	45.6	198.4	
		8-28-68	35.7	208.3	
		9-25-68	35.9	208.1	
26S/21E-14J01 M	237.0	2-02-68	32.0	205.0	5121
26S/22E-10G02 M	225.0	10-24-67	86.0	139.0	5000
		11-21-67	83.0	142.0	
		12-27-67	80.5	144.5	
		1-29-68	67.0	158.0	
		2-20-68	66.4	158.6	
		3-19-68	69.3	155.7	
		4-24-68	68.3	156.7	
		5-20-68	68.8	156.2	
		6-25-68	78.1	146.9	
		7-23-68	80.8	144.2	
		8-27-68	NM-1		
		9-24-68	NM-1		
SEMITROPIC WATER STORAGE DISTRICT		5-22.43			
26S/22E-35E01 M	253.0	2-01-68	110.5	142.5	5121
26S/23E-02R01 M	234.9	1-31-68	148.0	86.9	5121
26S/24E-23H01 M	295.5	2-02-68	193.8	101.7	5700
27S/23E-01R01 M	267.0	10-24-67	69.5	197.5	5000
		11-21-67	95.5	172.5	
		12-27-67	95.9	171.1	
		1-29-68	96.7	170.3	
		2-20-68	92.9	174.1	
		3-19-68	95.4	171.6	
		4-24-68	95.5	171.5	
		5-20-68	96.3	170.7	
		6-25-68	97.6	169.4	
		7-23-68	98.3	168.7	
		8-27-68	98.4	168.6	
		9-24-68	98.0	169.0	
27S/23E-01R04 M	267.0	10-24-67	241.5	25.5	5000
		11-21-67	210.5	56.5	
		12-27-67	194.2	72.8	
		1-29-68	198.4	68.6	
		2-20-68	219.0	42.0	
		3-19-68	229.9	37.1	
		4-24-68	237.3	30.7	
		5-20-68	240.9	26.1	
		6-25-68	268.7	-1.7	
		7-23-68	292.9	-25.9	
		8-27-68	290.2	-23.2	
		9-24-68	257.3	9.7	
27S/23E-06L01 M	258.0	1-30-68	44.0	214.0	5121
28S/23E-11E01 M	255.0	10-04-67	38.8	216.2	5640
		11-02-67	36.3	218.7	
		12-02-67	38.6	216.4	
		1-02-68	33.5	221.5	
		2-06-68	35.6	219.4	
		3-01-68	35.7	219.3	
		4-01-68	34.8	220.2	
		4-30-68	38.6	216.4	
		6-01-68	42.0	213.0	
		7-01-68	40.8	214.2	
		8-01-68	42.0	213.0	
		8-30-68	42.1	212.9	
28S/24E-28A01 M	301.1	10-04-67	NM-1		5640
		11-02-67	NM-1		
		11-03-67	NM-0		
29S/24E-14R01 M	290.0	1-26-68	108.0	182.0	5121
AVENAL-McKITTRICK AREA		5-22.44			
23S/18E-29E02 M	560.0	10-25-67	135.7	424.3	5000
		11-22-67	135.4	424.6	
		12-28-67	135.3	424.7	
		1-29-68	135.8	424.2	
		2-21-68	135.5	424.5	
		3-21-68	135.9	424.1	
		4-24-68	135.5	424.5	
		5-21-68	136.2	423.8	
		6-26-68	135.7	424.3	
		7-24-68	135.3	424.7	
		8-28-68	136.6	423.4	
		9-25-68	136.2	423.8	
23S/19E-26M01 M	267.0	11-06-67	68.0	199.0	5050
		12-13-67	NM-2		
		1-08-68	NM-2		
		5-01-68	68.0	199.0	
		6-05-68	69.5	197.5	
		7-08-68	68.5	198.5	
		7-31-68	67.5	199.5	
		8-25-68	67.5	199.5	
		9-25-68	69.5	197.5	
25S/19E-15G01 M	422.0	2-05-68	101.0	321.0	5121
25S/19E-20Q02 M	480.0	10-25-67	NM-1		5000
		11-22-67	NM-1		
		12-28-67	138.4	341.6	
		1-30-68	NM-1		
		2-21-68	147.3	332.7	
		3-21-68	132.0	348.0	
		4-25-68	132.7	347.3	
		5-21-68	133.1	346.9	
		6-26-68	132.1	347.9	
		7-24-68	NM-7		
		8-28-68	NM-7		
		9-25-68	137.9	342.1	
25S/20E-04C01 M	268.0	2-05-68	NM-1		5121
26S/17E-13L02 M	910.0	2-05-68	165.5	744.5	5121
26S/18E-16H01 M	685.0	2-05-68	DRY		5121
26S/18E-19B02 M	875.0	2-05-68	166.0	709.0	5121
26S/18E-27F01 M	730.0	2-05-68	NM-4		5121
26S/19E-12L01 M	530.0	2-05-68	NM-3		5121
27S/18E-15R01 M	1220.0	2-05-68	38.0	1182.0	5121
28S/22E-20M01 M	290.0	11-07-67	54.5	235.5	5050
		12-13-67	60.0	230.0	
		1-08-68	55.3	234.7	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
AVENAL-McKITTRICK AREA			5-22.44		
28S/22E-20M01 M CONT.	290.0	2-07-68	58.0	232.0	5050
		3-06-68	56.0	234.0	
		4-04-68	62.0	228.0	
		5-01-68	57.8	232.2	
		5-29-68	60.8	229.2	
		7-03-68	57.9	232.1	
		8-01-68	59.0	231.0	
		8-29-68	57.0	233.0	
		9-25-68	57.3	232.7	
TULARE LAKE-LOST HILLS AREA			5-22.45		
22S/21E-01J01 M	185.5	10-04-67	130.0	55.5	5050
		10-31-67	NM-1		
		12-04-67	132.0	54.0	
		1-04-68	NM-1		
		2-05-68	115.0	70.5	
		3-01-68	112.5	73.0	
		3-29-68	NM-1		
		5-07-68	134.0	51.5	
		6-03-68	142.5	43.0	
		6-28-68	177.5	8.0	
		8-06-68	167.5	18.0	
		9-04-68	194.9	-9.4	
23S/19E-14R01 M	235.0	11-06-67	42.0	193.0	5050
		12-12-67	45.0	190.0	
		1-08-68	40.0	195.0	
		2-07-68	40.5	194.5	
		3-06-68	44.3	190.7	
		4-11-68	40.3	194.7	
		5-01-68	42.2	192.8	
		6-05-68	41.5	193.5	
		7-08-68	41.0	194.0	
		7-31-68	39.8	195.2	
		8-28-68	40.2	194.8	
		9-25-68	40.2	194.8	
24S/21E-15J01 M	211.0	10-04-67	NM-9		5050
		10-31-67	NM-9		
		12-04-67	23.2	187.8	
		1-04-68	21.0	190.0	
		2-05-68	23.0	188.0	
		3-01-68	22.3	188.7	
		3-29-68	24.0	187.0	
		5-07-68	21.6	189.4	
		6-03-68	21.3	189.7	
		6-28-68	21.3	189.7	
		8-06-68	21.3	189.7	
		9-04-68	21.3	189.7	
24S/21E-26R01 M	210.0	10-04-67	22.0	188.0	5050
		10-31-67	NM-9		
		12-04-67	20.2	189.8	
		1-04-68	20.5	189.5	
		2-05-68	20.0	190.0	
		3-01-68	24.0	186.0	
		3-29-68	20.0	190.0	
		5-07-68	20.2	189.8	
		6-03-68	20.3	189.7	
		6-28-68	20.3	189.7	
		8-06-68	20.6	189.4	
		9-04-68	20.6	189.4	
25S/21E-30K01 M	237.5	11-06-67	37.0	200.5	5050
		12-12-67	37.5	200.0	
		1-08-68	36.7	200.8	
		2-07-68	36.7	200.8	
		3-06-68	37.2	200.3	
		4-11-68	36.6	200.9	
		5-01-68	36.8	200.7	
		6-05-68	37.0	200.5	
		7-03-68	36.8	200.7	
		7-31-68	37.2	200.3	
		8-27-68	37.2	200.3	
		9-25-68	37.3	200.2	
26S/21E-22D01 M	281.0	11-06-67	71.5	209.5	5050
		12-12-67	71.5	209.5	
		1-08-68	71.5	209.5	
		2-07-68	71.3	209.7	
		3-06-68	71.1	209.9	
		4-11-68	75.5	205.5	
		5-01-68	72.8	208.2	
		6-05-68	71.5	209.5	
		7-03-68	71.0	210.0	
		7-31-68	71.5	209.5	
		8-28-68	NM-1		
		9-25-68	NM-1		
CORCORAN IRRIGATION DISTRICT			5-22.46		
21S/22E-16L02 M	196.5	10-31-67	41.9	154.6	5050
		12-04-67	37.6	158.9	
		1-04-68	33.5	163.0	
		2-05-68	34.5	162.0	
		3-01-68	34.2	162.3	
		3-29-68	34.5	162.0	
		5-07-68	40.5	156.0	
		6-03-68	38.5	158.0	
		6-28-68	47.1	149.4	
		8-06-68	45.5	151.0	
		9-04-68	48.5	148.0	
21S/22E-21P01 M	192.0	10-04-67	128.7	63.3	5050
		10-31-67	132.5	59.5	
		12-04-67	134.5	57.5	
		1-04-68	133.1	58.9	
		2-05-68	126.0	66.0	
		3-01-68	120.5	71.5	
CORCORAN IRRIGATION DISTRICT			5-22.46		
21S/22E-21P01 M CONT.	192.0	3-29-68	114.7	77.3	5050
		5-07-68	123.5	68.5	
		6-03-68	149.5	42.5	
		6-28-68	151.5	40.5	
		8-06-68	NM-1		
		9-04-68	210.5	-18.5	
21S/22E-27A01 M	196.0	10-04-67	20.5	175.5	5050
		10-31-67	20.1	175.9	
		12-04-67	18.4	177.6	
		1-04-68	18.2	177.8	
		2-05-68	18.4	177.6	
		3-01-68	17.7	178.3	
		3-29-68	18.5	177.5	
		5-07-68	19.0	177.0	
		6-03-68	19.5	176.5	
		6-28-68	21.3	174.7	
		8-06-68	20.8	175.2	
		9-04-68	21.5	174.5	
21S/22E-36A01 M	205.0	10-04-67	NM-1		5050
		10-13-67	NM-1		
		10-14-67	NM-0		
22S/22E-01B02 M	201.0	10-04-67	15.0	186.0	5050
		10-31-67	13.5	187.5	
		12-04-67	15.0	186.0	
		1-04-68	15.0	186.0	
		2-05-68	16.0	185.0	
		3-01-68	13.5	187.5	
		3-29-68	14.0	187.0	
		5-07-68	15.0	186.0	
		6-03-68	16.0	185.0	
		6-28-68	18.1	182.9	
		8-06-68	17.5	183.5	
		9-04-68	18.0	183.0	
22S/22E-05L01 M	188.0	10-31-67	135.0	53.0	5050
		12-04-67	120.7	67.3	
		1-04-68	128.4	59.6	
		2-05-68	127.5	60.5	
		3-01-68	112.0	76.0	
		3-29-68	127.5	60.5	
		5-07-68	134.0	54.0	
		6-03-68	144.0	44.0	
		6-28-68	161.0	27.0	
		8-06-68	186.0	2.0	
		9-04-68	210.0	-22.0	
22S/22E-13P01 M	193.0	10-04-67	16.0	177.0	5050
		10-31-67	15.0	178.0	
		12-04-67	13.0	180.0	
		1-04-68	13.0	180.0	
		2-05-68	12.4	180.6	
		3-01-68	13.0	180.0	
		3-29-68	13.1	179.9	
		5-07-68	14.5	178.5	
		6-03-68	16.0	177.0	
		6-28-68	18.0	175.0	
		8-06-68	19.0	174.0	
		9-04-68	18.8	174.2	
22S/22E-15C01 M	191.0	10-04-67	125.5	65.5	5050
		10-31-67	126.5	64.5	
		12-04-67	120.0	71.0	
		1-04-68	115.8	75.2	
		2-05-68	109.5	81.5	
		3-01-68	111.5	79.5	
		3-29-68	109.5	81.5	
		5-07-68	114.5	76.5	
		6-03-68	119.5	71.5	
		6-28-68	130.5	60.5	
		8-06-68	162.5	28.5	
		9-04-68	168.0	23.0	
MENDOTA-HURON AREA			5-22.47		
13S/12E-22N01 M	280.0	10-18-67	166.0	114.0	5001
		4-11-68	171.7	108.3	
13S/13E-12A01 M	183.0	10-19-67	NM-2		5001
13S/14E-09J01 M	164.0	10-20-67	NM-5		5001
14S/13E-15M01 M	321.0	12-00-67	NM-0		5050
14S/14E-28E02 M	248.0	10-23-67	55.6	192.4	5000
		2-22-68	53.7	194.3	
14S/15E-18E02 M	178.0	12-20-67	NM-1		5050
14S/15E-35N01 M	161.0	2-12-68	NM-3		5001
15S/14E-15E01 M	234.0	10-26-67	NM-6		5001
15S/14E-15E04 M	236.0	10-26-67	NM-7		5000
		11-23-67	416.5	-180.5	
		2-22-68	428.8	-192.8	
		3-21-68	431.0	-195.0	
		4-25-68	430.1	-194.1	
		5-22-68	435.0	-199.0	
		6-27-68	434.0	-198.0	
		7-25-68	432.8	-196.8	
		8-29-68	434.7	-198.7	
		9-26-68	423.3	-187.3	
15S/15E-22Q01 M	176.0	2-12-68	130.0	46.0	5001
15S/16E-17L01 M	165.0	10-26-67	39.9	125.1	5000
		11-23-67	40.5	124.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA			5-22.47		
15S/16E-17L01 M CONT.	165.0	12-29-67	40.7	124.3	5000
		1-31-68	40.1	124.9	
		2-22-68	40.8	124.2	
		3-21-68	40.2	124.8	
		4-25-68	NM-7		
		5-22-68	43.5	121.5	
		6-27-68	43.2	121.8	
		7-25-68	43.4	121.6	
		8-29-68	43.8	121.2	
		9-26-68	46.0	119.0	
15S/16E-20R01 M	170.0	10-24-67	80.8	89.2	5001
		2-13-68	78.7	91.3	
15S/16E-28A04 M	169.0	10-26-67	186.5	-17.5	5000
		11-23-67	182.5	-13.5	
		12-29-67	183.0	-14.0	
		1-31-68	181.8	-12.8	
		2-22-68	183.3	-14.8	
		3-21-68	173.0	-4.0	
		4-25-68	184.1	-15.1	
		6-27-68	185.3	-16.3	
		7-25-68	187.2	-18.2	
		8-29-68	188.0	-19.5	
		9-26-68	188.5	-19.5	
16S/15E-02N02 M	219.0	2-09-68	94.5	124.5	5001
16S/16E-10N01 M	187.0	2-09-68	123.8	63.2	5001
17S/14E-13R01 M	457.0	12-18-67	NM-1		5050
17S/16E-02E01 M	218.0	2-05-68	NM-1		5001
17S/16E-24R01 M	232.5	10-26-67	183.5	49.0	5050
		2-22-68	196.9	35.6	
17S/16E-30A03 M	290.0	10-26-67	65.5	224.5	5000
		11-23-67	64.5	225.5	
		12-29-67	65.9	224.1	
		1-31-68	67.3	222.7	
		2-22-68	67.7	222.3	
		3-21-68	66.2	223.8	
		4-25-68	66.3	223.7	
		5-22-68	69.1	220.9	
		6-27-68	66.8	223.2	
		7-25-68	68.6	221.4	
		8-29-68	66.7	223.3	
		9-26-68	66.6	223.4	
17S/17E-21N02 M	226.0	10-00-67	NM-0		5050
18S/17E-12N01 M	253.0	12-19-67	NM-1		5050
19S/18E-15M01 M	274.0	12-18-67	NM-1		5050
19S/18E-27M01 M	281.0	12-18-67	371.0	-90.0	5000
20S/18E-11N01 M	277.0	12-19-67	NM-1		5050
20S/18E-11Q01 M	270.0	10-25-67	485.5	-215.5	5000
		11-22-67	484.8	-214.8	
		12-20-67	483.8	-213.8	
		1-16-68	477.9	-207.9	
		2-13-68	484.6	-214.6	
		3-12-68	489.7	-219.7	
		4-09-68	474.3	-204.3	
		5-08-68	NM-7		
		6-04-68	483.0	-213.0	
		7-02-68	490.9	-220.9	
		7-31-68	494.8	-224.8	
		8-28-68	488.1	-218.1	
		9-24-68	486.9	-216.9	
20S/18E-36D01 M	260.0	10-25-67	305.0	-45.0	5050
		2-21-68	304.0	-44.0	
21S/15E-01E01 M	623.0	2-00-68	NM-0		5050
21S/16E-02N01 M	570.0	2-00-68	NM-0		5050
21S/16E-07N01 M	634.0	2-00-68	NM-0		5050
21S/16E-35D01 M	682.0	2-00-68	NM-0		5050
21S/17E-06N01 M	526.0	2-00-68	NM-0		5050
21S/17E-24G01 M	425.0	12-21-67	NM-0		5050
21S/18E-28M02 M	363.0	10-25-67	346.5	16.5	5000
		2-21-68	351.1	11.9	
POSO SOIL CONSERVATION DISTRICT			5-22.48		
10S/13E-06R01 M	110.0	10-06-67	9.4	100.6	5529
		11-04-67	10.8	99.2	
		12-01-67	10.2	99.8	
		1-04-68	10.0	100.0	
		2-05-68	10.5	99.5	
		3-04-68	12.1	97.9	
		4-02-68	9.9	100.1	
		5-03-68	17.0	93.0	
		6-05-68	14.4	95.6	
		7-03-68	13.3	96.7	
		8-05-68	12.4	97.6	
		9-04-68	12.1	97.9	
11S/13E-05Q01 M	117.0	10-06-67	9.5	107.5	5529
		11-04-67	9.5	107.5	
		12-01-67	9.9	107.1	
POSO SOIL CONSERVATION DISTRICT			5-22.48		
11S/13E-05Q01 M CONT.	117.0	1-04-68	9.4	107.6	5529
		2-05-68	10.1	106.9	
		3-04-68	11.9	105.1	
		4-02-68	12.4	104.6	
		5-03-68	13.8	103.2	
		6-05-68	12.5	104.5	
		7-03-68	13.2	103.8	
		8-05-68	12.9	104.1	
		9-04-68	11.6	105.4	
11S/13E-26A01 M	128.0	10-06-67	13.1	114.9	5529
		11-04-67	11.8	116.2	
		12-01-67	12.9	115.1	
		1-04-68	11.0	117.0	
		2-05-68	11.3	116.7	
		3-04-68	13.7	114.3	
		4-02-68	14.0	114.0	
		5-03-68	15.7	112.3	
		6-05-68	9.4	118.6	
		7-03-68	17.5	110.5	
		8-05-68	10.4	117.6	
		9-04-68	14.7	113.3	
11S/13E-33L01 M	126.0	10-06-67	8.1	117.9	5529
		11-04-67	9.1	116.9	
		12-01-67	10.8	115.2	
		1-04-68	9.9	116.1	
		2-05-68	10.9	115.1	
		3-04-68	10.5	115.5	
		4-02-68	7.5	118.5	
		5-03-68	9.5	116.5	
		6-05-68	13.2	112.8	
		7-03-68	11.5	114.5	
		8-05-68	17.8	108.2	
		9-04-68	10.3	115.7	
12S/13E-13J01 M	140.0	10-06-67	8.0	132.0	5529
		11-04-67	9.2	130.8	
		12-01-67	10.2	129.8	
		1-04-68	8.5	131.5	
		2-05-68	9.4	130.6	
		3-04-68	9.3	130.7	
		4-02-68	8.2	131.8	
		5-03-68	8.4	131.6	
		6-05-68	7.4	132.6	
		7-03-68	9.8	130.2	
		8-05-68	19.0	121.0	
		9-04-68	12.8	127.2	
TERRA BELLA IRRIGATION DISTRICT			5-22.50		
22S/27E-25J03 M	532.0	10-24-67	112.2	419.8	5001
		11-28-67	107.8	424.2	
		12-19-67	97.8	434.2	
		1-25-68	88.1	443.9	
		2-27-68	92.8	439.2	
		3-19-68	93.2	438.8	
		4-23-68	107.4	424.6	
		5-21-68	105.8	426.2	
		6-25-68	113.9	418.1	
		7-24-68	113.8	418.2	
		8-23-68	113.5	418.5	
		9-17-68	107.0	425.0	
23S/27E-01A01 M	506.0	10-24-67	84.8	421.2	5001
		11-28-67	84.5	421.5	
		12-19-67	83.9	422.1	
		1-25-68	85.5	420.5	
		2-27-68	84.0	422.0	
		3-19-68	84.7	421.3	
		4-23-68	84.1	421.9	
		5-21-68	84.4	421.6	
		6-25-68	84.0	422.0	
		7-24-68	85.8	420.2	
		8-23-68	86.0	420.0	
		9-17-68	86.2	419.8	
23S/27E-10H01 M	518.0	10-00-67	NM-0		5001
MERCED BOTTOMS			5-22.54		
7S/10E-23K02 M	80.0	10-03-67	3.7	76.3	5050
		11-03-67	3.7	76.3	
		12-04-67	3.9	76.1	
		1-04-68	3.9	75.1	
		2-05-68	4.0	76.0	
		3-04-68	3.8	76.2	
		4-04-68	3.7	76.3	
		5-03-68	2.8	77.2	
		6-03-68	4.1	75.9	
		7-08-68	3.5	76.5	
		8-02-68	3.2	76.8	
		9-06-68	3.3	76.7	
7S/12E-27F01 M	110.5	10-02-67	9.6	100.9	5050
		10-30-67	8.4	102.1	
		12-01-67	7.9	102.6	
		1-03-68	7.6	102.9	
		2-02-68	17.0	93.5	
		3-12-68	6.5	104.0	
		3-27-68	6.6	103.9	
		5-06-68	8.0	102.5	
		5-31-68	9.0	101.5	
		6-27-68	10.1	100.4	
		8-05-68	10.0	100.5	
		9-03-68	10.0	100.5	
		9-30-68	10.0	100.5	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MERCED BOTTOMS			5-22.54		
8S/12E-19D01 M	90.0	10-02-67	20.7	69.3	5050
		10-30-67	17.9	72.1	
		12-01-67	15.3	74.7	
		1-03-68	13.0	77.0	
		2-02-68	11.5	78.5	
		3-12-68	12.5	77.5	
		3-27-68	12.2	77.8	
		5-06-68	21.5	68.5	
		5-31-68	19.5	70.5	
		6-27-68	23.5	66.5	
		8-05-68	29.7	60.3	
		9-03-68	28.3	61.7	
		9-30-68	25.8	64.2	
9S/12E-01C01 M	110.5	10-02-67	44.7	65.8	5050
		10-30-67	43.4	67.1	
		12-01-67	42.8	67.7	
		1-03-68	35.9	74.6	
		2-02-68	30.8	79.7	
		3-12-68	28.0	82.5	
		3-27-68	27.5	83.0	
		5-06-68	35.4	75.1	
		5-31-68	40.6	69.9	
		6-27-68	46.7	63.8	
		8-05-68	48.5	62.0	
		9-03-68	49.0	61.5	
		9-30-68	NM-1		
9S/14E-01B01 M	180.0	10-02-67	93.7	86.3	5050
		10-30-67	77.0	103.0	
		12-01-67	69.4	110.6	
		1-03-68	63.3	116.7	
		2-02-68	58.2	121.8	
		3-12-68	55.5	124.5	
		3-27-68	55.5	124.5	
		5-06-68	86.1	93.9	
		5-31-68	98.8	81.2	
		6-27-68	103.0	77.0	
		8-05-68	114.5	65.5	
		9-03-68	109.1	70.9	
		9-30-68	106.0	74.0	
9S/14E-01B03 M	180.0	10-02-67	40.0	140.0	5050
		10-30-67	40.1	139.9	
		12-01-67	40.1	139.9	
		1-03-68	40.5	139.5	
		2-02-68	41.0	139.0	
		3-12-68	40.6	139.4	
		3-27-68	40.7	139.3	
		5-06-68	41.0	139.0	
		5-31-68	44.0	136.0	
		6-27-68	44.0	136.0	
		8-05-68	41.4	138.6	
		9-03-68	41.0	139.0	
		9-30-68	41.4	138.6	
9S/14E-06D01 M	141.0	10-02-67	43.1	97.9	5050
		10-30-67	43.8	97.2	
		12-01-67	43.8	97.2	
		1-03-68	43.8	97.2	
		2-02-68	44.0	97.0	
		3-12-68	NM-7		
		3-27-68	42.7	98.3	
		5-06-68	45.5	95.5	
		5-31-68	45.8	95.2	
		6-27-68	47.5	93.5	
		8-05-68	44.5	96.5	
		9-03-68	45.0	96.0	
		9-30-68	45.5	95.5	
OARFIELD WATER DISTRICT			5-22.65		
12S/20E-13A01 M	388.0	10-01-67	115.7	272.3	5001
		11-05-67	115.5	272.5	
		12-02-67	114.3	273.7	
		1-01-68	113.0	275.0	
		2-01-68	112.7	275.3	
		3-03-68	112.1	275.9	
		4-02-68	112.3	275.7	
		5-01-68	114.2	273.8	
		6-01-68	NM-1		
		7-01-68	115.7	272.3	
		8-01-68	118.6	269.4	
		9-01-68	117.3	270.7	
12S/21E-07A02 M	405.5	10-01-67	146.0	259.5	5001
		11-05-67	144.0	261.5	
		12-02-67	142.6	262.9	
		1-01-68	143.7	261.8	
		2-01-68	142.2	263.3	
		3-03-68	139.5	266.0	
		4-02-68	138.2	267.3	
		5-01-68	138.6	266.9	
		6-02-68	137.3	268.2	
		7-01-68	138.0	267.5	
		8-01-68	141.7	263.8	
		9-01-68	145.1	260.4	
12S/21E-18A03 M	390.5	10-01-67	106.4	284.1	5001
		11-05-67	106.0	284.5	
		12-02-67	102.8	287.7	
		1-01-68	101.7	288.8	
		2-01-68	101.7	288.8	
		3-03-68	103.1	287.4	
		4-02-68	101.6	288.9	
		5-01-68	97.5	293.0	
		6-02-68	101.2	289.3	
		7-01-68	103.4	287.1	
		8-01-68	104.7	285.8	
		9-01-68	106.0	284.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KINGS COUNTY WATER DISTRICT			5-22.66		
17S/20E-36R02 M	243.0	10-01-67	14.7	228.3	5129
		11-07-67	14.9	228.1	
		12-03-67	16.5	226.5	
		12-30-67	15.1	227.9	
		1-30-68	14.2	228.8	
		3-02-68	14.5	228.5	
		3-30-68	14.8	228.2	
		4-29-68	15.6	227.4	
		5-26-68	16.8	226.2	
		6-29-68	NM-1		
		8-04-68	33.5	209.5	
		8-31-68	31.7	211.3	
		9-23-68	28.1	214.9	
17S/22E-11P01 M	283.0	10-02-67	20.4	262.6	5129
		11-07-67	19.3	263.7	
		12-03-67	18.3	264.7	
		12-30-67	18.9	264.1	
		1-30-68	18.1	264.9	
		3-02-68	18.6	264.4	
		3-30-68	18.8	264.2	
		4-29-68	22.8	260.2	
		5-26-68	23.3	259.7	
		6-29-68	28.8	256.2	
		8-04-68	36.2	246.8	
		8-31-68	24.0	259.0	
		9-23-68	28.3	254.7	
17S/22E-35N01 M	266.0	10-02-67	41.4	224.6	5129
		11-07-67	36.9	229.1	
		12-03-67	35.1	230.9	
		12-30-67	34.2	231.8	
		1-30-68	33.3	232.7	
		3-02-68	34.6	231.4	
		3-30-68	36.5	230.0	
		4-29-68	38.1	227.9	
		5-26-68	38.7	227.3	
		6-24-68	45.6	220.4	
		8-04-68	47.8	218.2	
		8-31-68	36.9	229.1	
		9-23-68	39.5	226.4	
18S/21E-17N01 M	238.0	10-01-67	10.3	227.7	5129
		11-07-67	9.5	228.5	
		12-03-67	9.4	228.6	
		12-30-67	9.3	228.7	
		1-31-68	9.1	228.9	
		3-02-68	9.3	228.7	
		3-30-68	9.1	228.9	
		4-29-68	9.5	228.5	
		5-26-68	9.1	228.9	
		6-29-68	9.7	228.3	
		8-04-68	9.4	228.6	
		8-31-68	10.6	227.4	
		9-23-68	9.3	228.7	
18S/22E-21H01 M	258.0	10-03-67	83.6	174.4	5129
		11-07-67	79.1	178.9	
		12-03-67	77.7	180.3	
		12-30-67	76.6	181.4	
		1-31-68	78.6	179.4	
		3-02-68	80.7	177.3	
		3-30-68	78.7	180.3	
		4-29-68	79.0	179.0	
		5-26-68	79.9	178.1	
		6-29-68	84.5	173.5	
		8-04-68	86.1	171.9	
		8-31-68	78.5	179.5	
		9-23-68	84.4	173.6	
18S/23E-28B01 M	263.0	10-03-67	96.4	166.6	5129
		11-06-67	94.7	168.3	
		12-03-67	91.9	171.1	
		12-30-67	89.5	173.5	
		2-01-68	89.4	173.6	
		3-02-68	NM-1		
		3-30-68	92.3	170.7	
		4-29-68	98.3	164.7	
		5-26-68	93.1	169.9	
		6-29-68	103.1	159.9	
		8-04-68	96.0	167.0	
		8-31-68	94.9	168.1	
		9-23-68	96.6	166.4	
19S/21E-20N01 M	225.0	11-06-67	11.2	213.8	5129
		12-03-67	12.0	213.0	
		12-30-67	11.2	213.8	
		2-01-68	11.0	214.0	
		3-02-68	10.6	214.4	
		3-30-68	11.1	213.9	
		4-29-68	9.7	215.3	
		5-26-68	9.5	215.5	
		6-29-68	10.4	214.6	
		8-04-68	10.6	214.4	
		8-31-68	11.3	213.7	
19S/22E-04B01 M	245.0	11-06-67	86.1	158.9	5129
		12-03-67	83.2	161.8	
		12-30-67	81.8	163.2	
		2-01-68	80.6	164.4	
		3-02-68	84.7	160.3	
		3-30-68	86.9	158.1	
		4-29-68	NM-1		
		5-21-68	92.9	152.1	
		6-29-68	NM-1		
		8-04-68	NM-1		
		8-31-68	89.0	156.0	

TABLE C-3(Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KINGS COUNTY WATER DISTRICT			5-22.66		
19S/22E-23A01 M	240.0	11-06-67	85.6	154.4	5129
		12-03-67	82.9	157.1	
		12-30-67	81.9	158.1	
		2-02-68	80.2	159.8	
		3-02-68	82.5	157.5	
		3-30-68	83.0	157.0	
		4-29-68	84.4	155.6	
		5-26-68	84.8	155.2	
		6-29-68	86.1	153.9	
		8-04-68	85.1	154.9	
		8-31-68	88.5	151.5	
20S/21E-03A01 M	222.0	2-05-68	13.6	208.4	5001
20S/21E-05E01 M	219.0	11-06-67	146.1	72.9	5129
		12-03-67	143.8	75.2	
		12-30-67	141.3	77.7	
		2-02-68	140.1	78.9	
		3-02-68	138.1	80.9	
		3-29-68	NM-1		
		4-29-68	153.9	65.1	
		5-26-68	149.1	69.9	
		6-29-68	NM-1		
		8-04-68	NM-1		
		8-31-68	148.9	70.1	
20S/22E-10H02 M	225.0	11-06-67	112.9	112.1	5129
		12-03-67	108.8	116.2	
		12-30-67	NM-1		
		2-02-68	108.1	116.4	
		3-02-68	108.3	116.7	
		3-30-68	110.5	114.5	
		4-29-68	127.1	97.9	
		5-26-68	130.1	94.9	
		6-29-68	NM-1		
		8-04-68	NM-1		
		8-31-68	NM-1		
PLEASANT VALLEY			5-22.69		
20S/15E-25D01 M	619.0	3-05-68	NM-9		5050
20S/15E-32A01 M	675.0	3-05-68	234.0	441.0	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA

APPENDIX D

SURFACE WATER QUALITY

INTRODUCTION

Appendix D summarizes the surface water quality, electrical conductivity, and water temperature data for the San Joaquin Valley for 1968 water year (October 1, 1967, through September 30, 1968). These data were obtained from analyses of water samples from 28 surface water quality sampling stations, seven electrical conductivity recorders and two temperature recorders. Water samples are collected by the Department of Water Resources, the U. S. Corps of Engineers, and Kern County Parks and Recreation. Electrical conductivity and temperature recorders are serviced and maintained by the Department of Water Resources.

Laboratory analyses of surface water samples reported herein were performed in accordance with the 12th 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 third digit indicates the stream and the next three integers designate the relative number of the station on the stream system.

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

The last two digits denote the location of the sampling station relative to a gaging station as shown below.

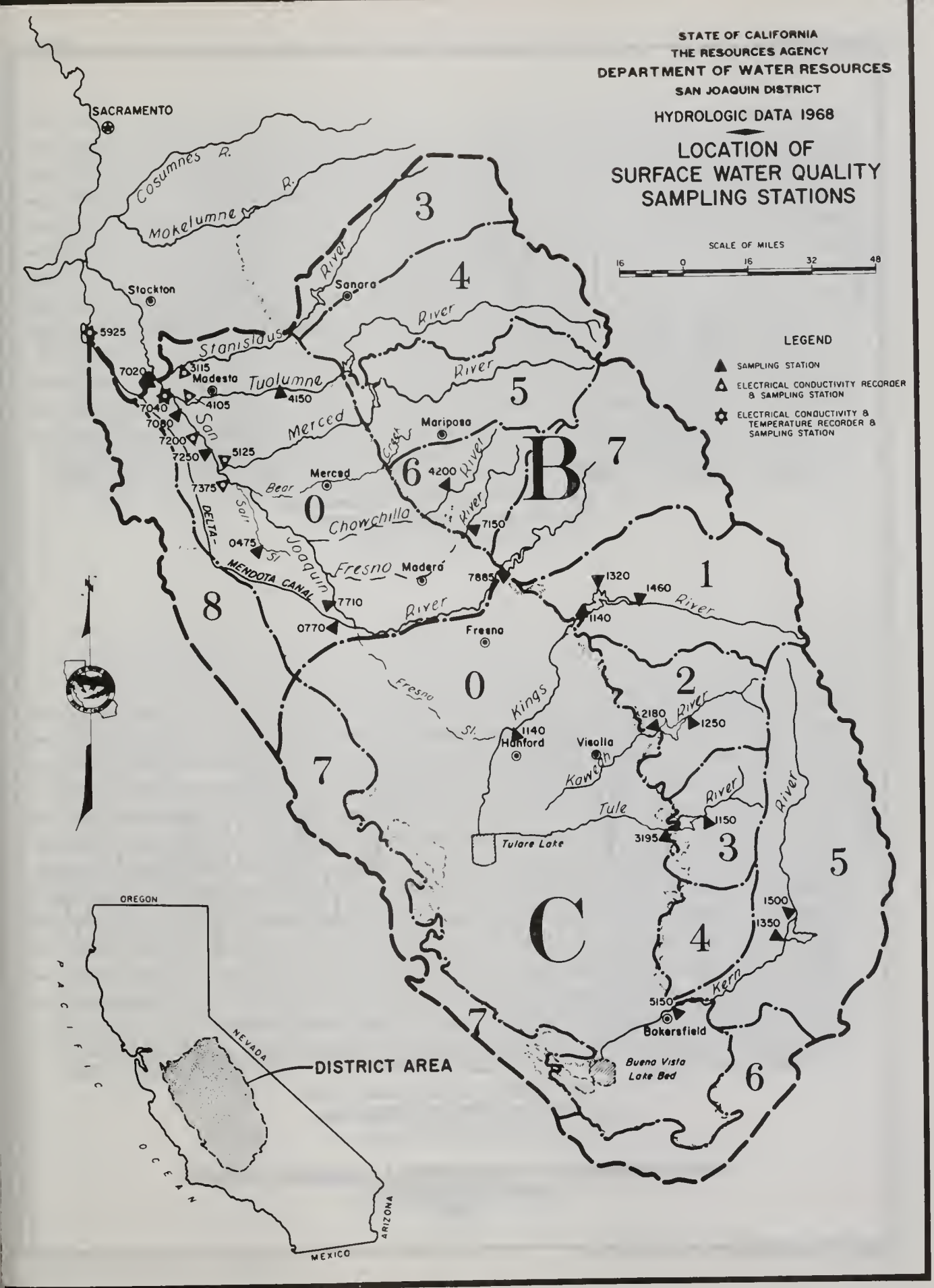
.00 Sampled at gage station
.02 Sampled upstream within one mile of gage station
.98 Sampled downstream within one mile of gage station
.05 Sampled more than one mile from gage station

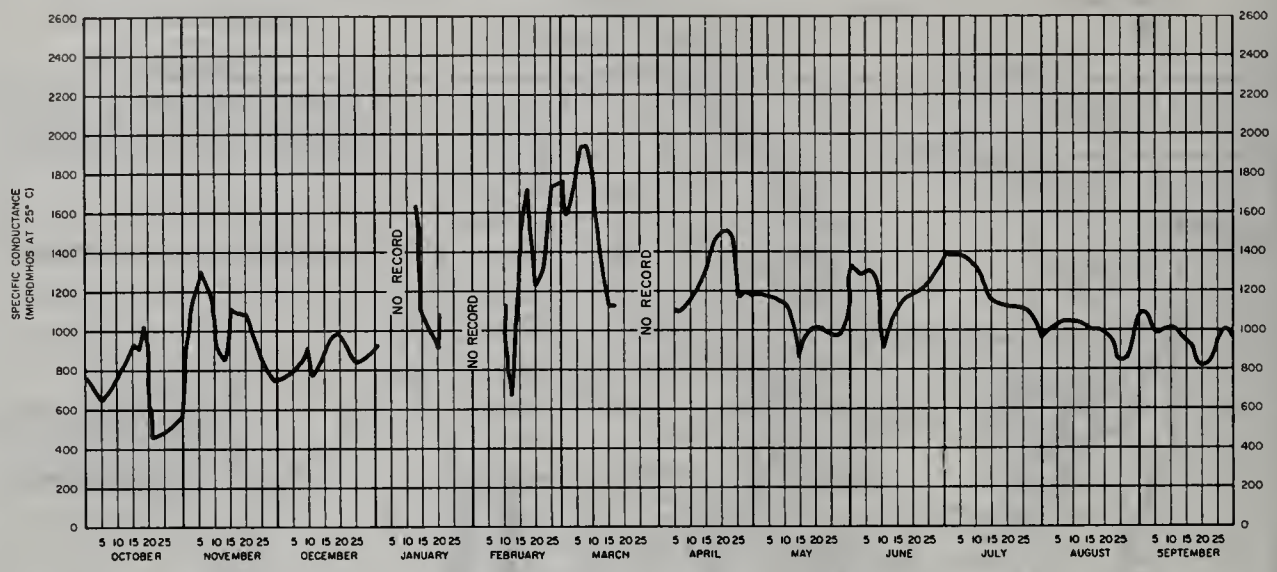
TABLE D-I

SAMPLING STATION DATA AND INDEX FOR SURFACE WATER

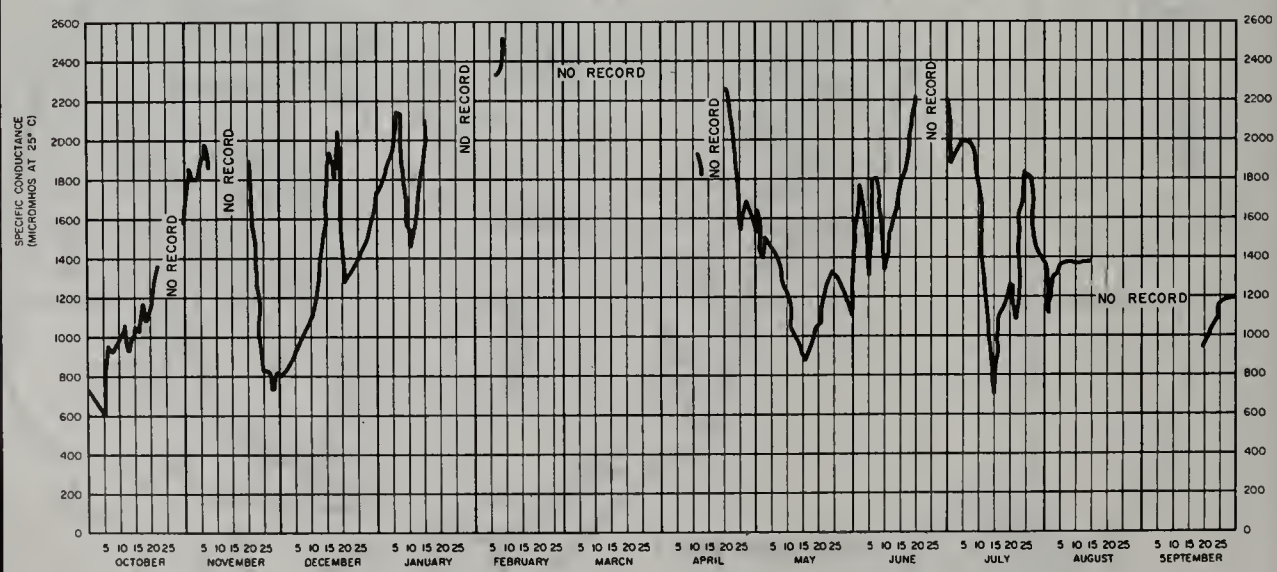
Station	Station Identification Number	Location[a]	Period[b] of Record	Frequency[c] of Sampling	Sampled[d] By	Analysis on Page
Big Creek above Pine Flat Dam	C11320.00	12S/25E- 4	July 1960	M	USACE	204,213
Chowchilla River near Raymond	B64200.00	8S/18E- 1	January 1962	S	DWR	200,210
Delta-Mendota Canal near Mendota	B00770.00	13S/15E-19	July 1952	Q	DWR	197,210,213
Delta-Mendota Canal near Tracy	B95925.00	1S/ 4E-30	July 1952	Q	DWR	200,210,213
Fresno River near Daulton	B67150.00	9S/19E-34	January 1958	S	DWR	200
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	M	USACE	201,210,213
Kaweah River at Three Rivers	C21250.00	17S/28E-27	April 1951	M	USACE	206,211,213
Kern River near Bakersfield	C05150.00	29S/28E- 9	April 1951	Q	KCPR	203,211,213
Kern River below Isabella Dam	C51350.00	26S/33E-30	September 1955	Q	USACE	207,211,214
Kern River at Kernville	C51500.00	25S/33E-15	September 1955	Q	USACE	208
Kings River below North Fork	C11460.00	12S/26E-21	September 1955	M	USACE	205,211,213
Kings River below Peoples Weir	C01140.00	17S/22E- 1	April 1951	Q	DWR	201,210,213
Kings River below Pine Flat Dam	C11140.00	13S/24E- 2	September 1955	M	USACE	203,211,213
Merced River near Stevinson	B05125.00	6S/ 9E-36	April 1951	S	DWR	198,210
Salt Slough at San Luis Ranch	B00475.00	9S/11E- 7	November 1958	S	DWR	197
San Joaquin River at Crows Landing Bridge	B07250.00	6S/ 9E- 7	January 1962	Q	DWR	199
San Joaquin River at Fremont Ford Bridge	B07375.00	7S/ 9E-24	July 1955	S	DWR	200,210
San Joaquin River below Friant	B07885.00	11S/21E- 7	April 1951	S	DWR	200
San Joaquin River near Grayson	B07080.00	4S/ 7E-24	April 1959	Q	DWR	199,213
San Joaquin River at Maze Road Bridge	B07040.00	3S/ 7E-33	Sprll 1951	S	DWR	199
San Joaquin River near Mendota	B07710.00	13S/15E- 7	April 1951	S	DWR	200,210
San Joaquin River at Patterson Bridge	B07200.00	5S/ 8E-15	January 1962	S	DWR	199
San Joaquin River near Vernalis	B07020.00	3S/ 6E-13	April 1951	M	DWR	198,210,213
Stanislaus River at Koetitz Ranch	B03115.00	3S/ 7E- 2	April 1951	S	DWR	197,210
Tule River near Springville	C31150.00	21S/29E-15	November 1963	M	USACE	207,211,214
Tule River below Success Dam	C03196.00	21S/28E-35	July 1952	M	USACE	202,210,213
Tuolumne River at Hickman Bridge	B04150.00	3S/11E-34	April 1951	S	DWR	198
Tuolumne River at Tuolumne City	B04105.00	4S/ 8E-12	April 1951	S	DWR	198,210

a. Locations are in reference to Mt. Diablo Base and Meridian
b. Beginning of record
c. M - Monthly, Q - Quarterly, S - Semiannually
d. DWR - Department of Water Resources, USACE - United States Army Corps of Engineers, KCPR - Kern County Parks and Recreation


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1968
LOCATION OF SURFACE WATER QUALITY SAMPLING STATIONS
SCALE OF MILES
16 0 16 32 48
LEGEND
SAMPLING STATION
ELECTRICAL CONDUCTIVITY RECORDER & SAMPLING STATION
ELECTRICAL CONDUCTIVITY & TEMPERATURE RECORDER & SAMPLING STATION
SACRAMENTO
Cosumnes R.
Mokelumne R.
Stockton
Sonora
Stanislaus River
Tuolumne River
Merced River
San Joaquin River
Madera
Mariposa
Merced
Bear Creek
Chowchilla
Fresno
Madera
Fresno
Fresno Sl.
Kings River
Hanford
Visalia
Kaweah River
Tule River
Tulare Lake
Kern River
Bakersfield
Buena Vista Lake Bed
DELTA-MENDOTA CANAL
5925
7020
3115
Modesto
7040
4105
4150
7080
7200
7250
5125
7375
0475
7710
0770
7885
7150
4200
1320
1460
1140
2180
1250
1140
1150
3195
1500
1350
5150
B
C
0
1
2
3
4
5
6
7
8
OREGON
NEVADA
ARIZONA
MEXICO
PACIFIC OCEAN
DISTRICT AREA



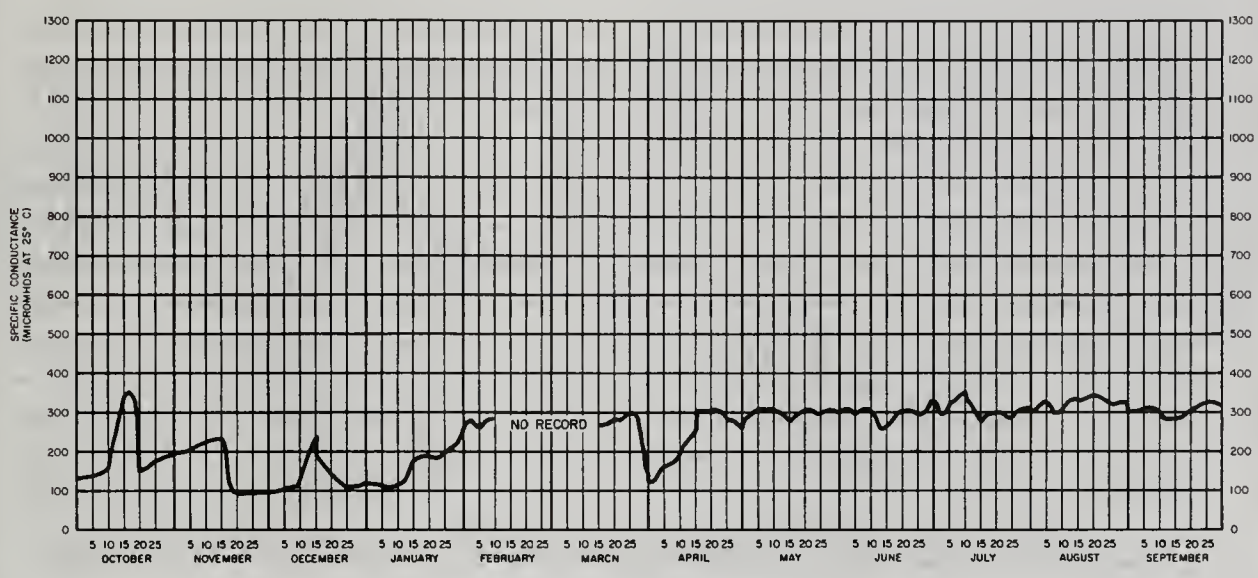
SAN JOAQUIN RIVER AT PATTERSON BRIDGE
STA. No. 7200 RIVER MILE 104.5



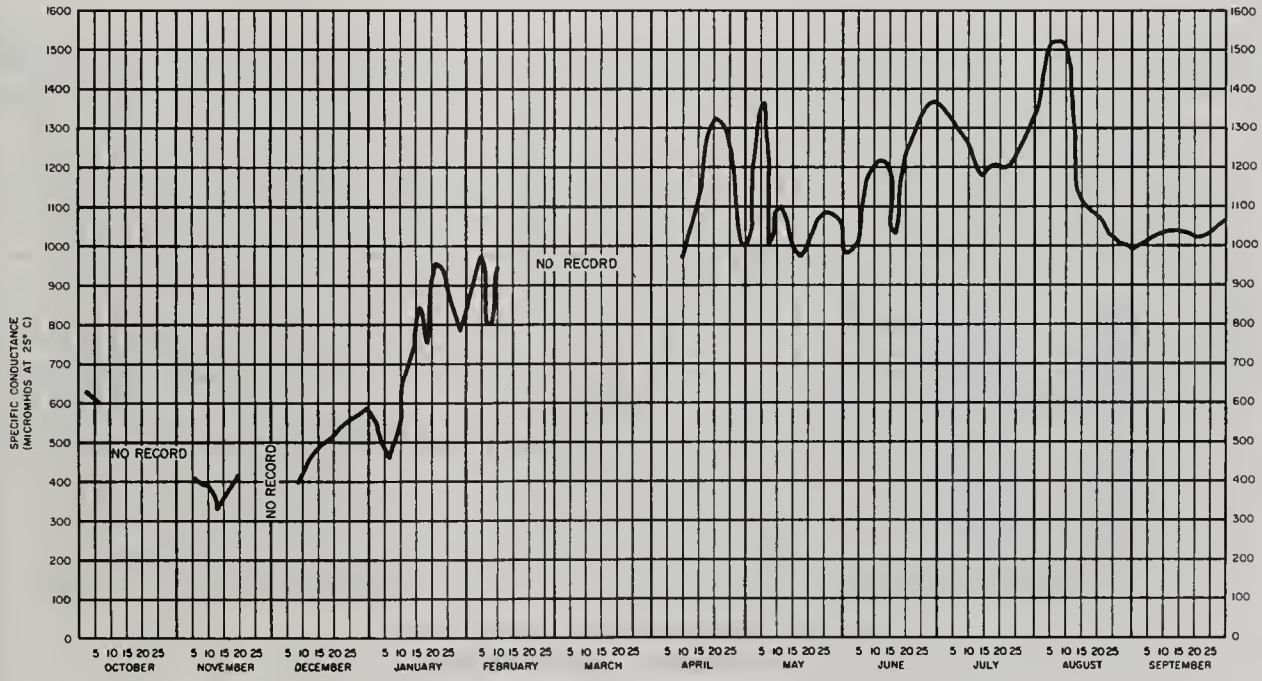
SAN JOAQUIN RIVER AT FREMONT FORD
STA. No. 7375 RIVER MILE 129.5

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1968

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

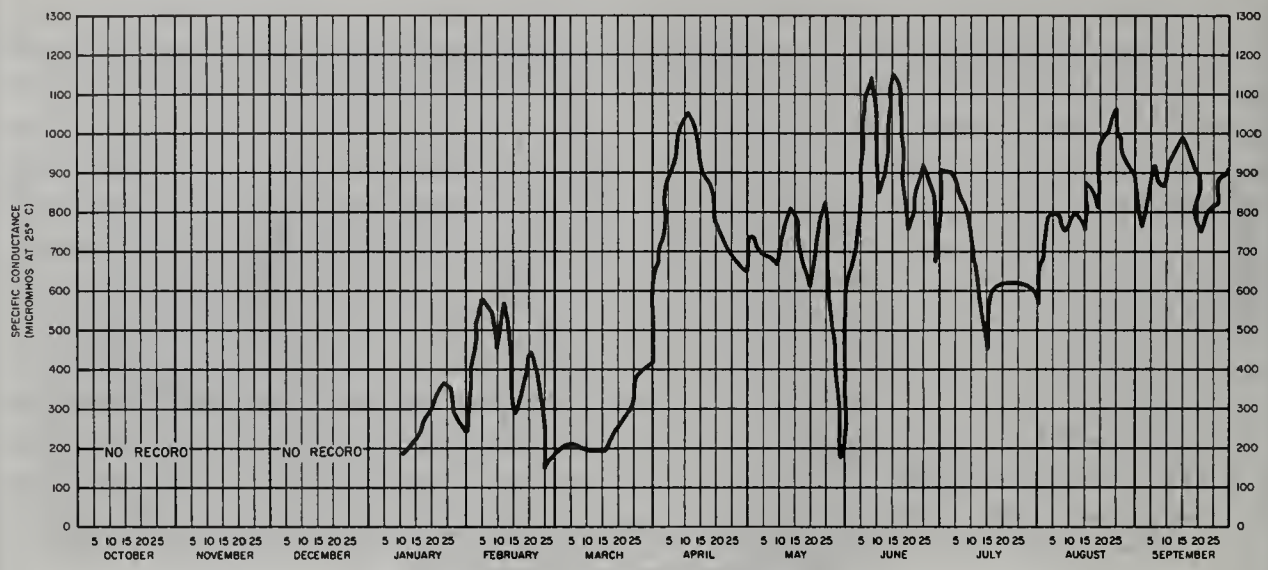


STANISLAUS RIVER AT KOETITZ RANCH
STA. No. 3115 RIVER MILE 9.5

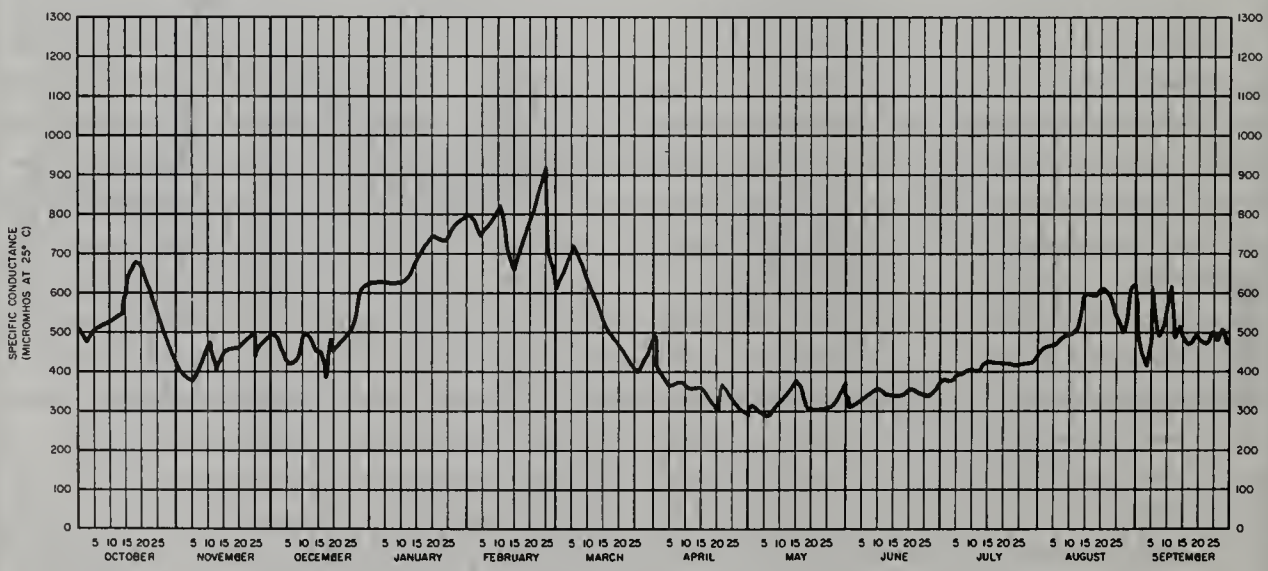


SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
STA. No. 7040 RIVER MILE 82.9

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1968



TUOLUMNE RIVER NEAR TUOLUMNE CITY
STA. No. 4105 RIVER MILE 2.9

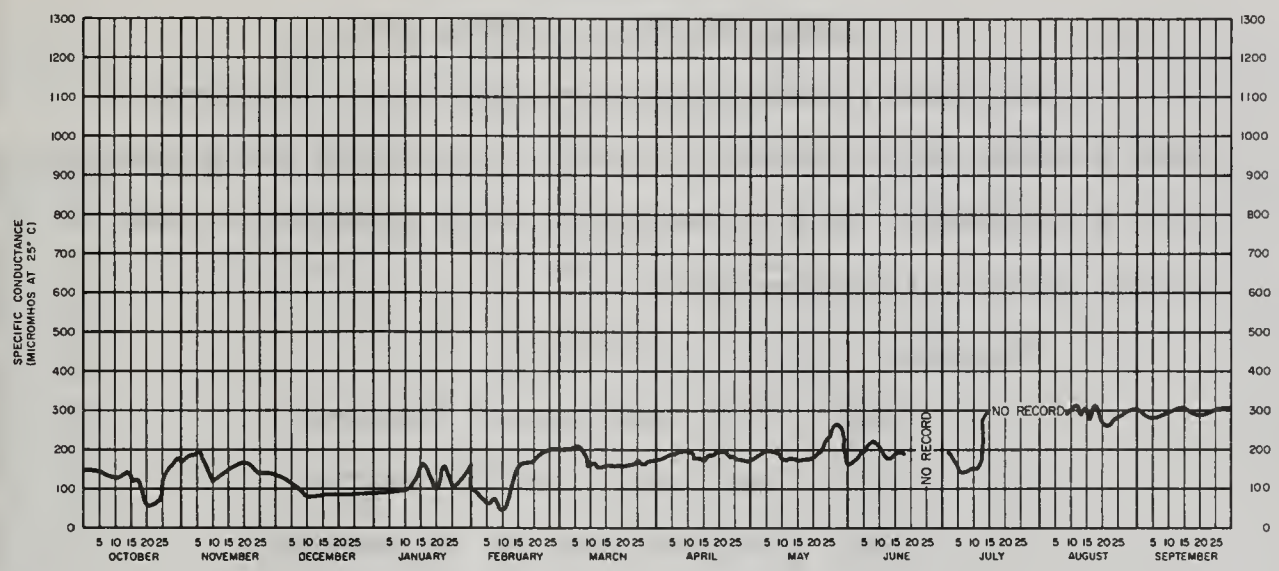


DELTA MENDOTA CANAL NEAR TRACY
STA. No. 5925 CANAL MILE 3.5

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1968

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

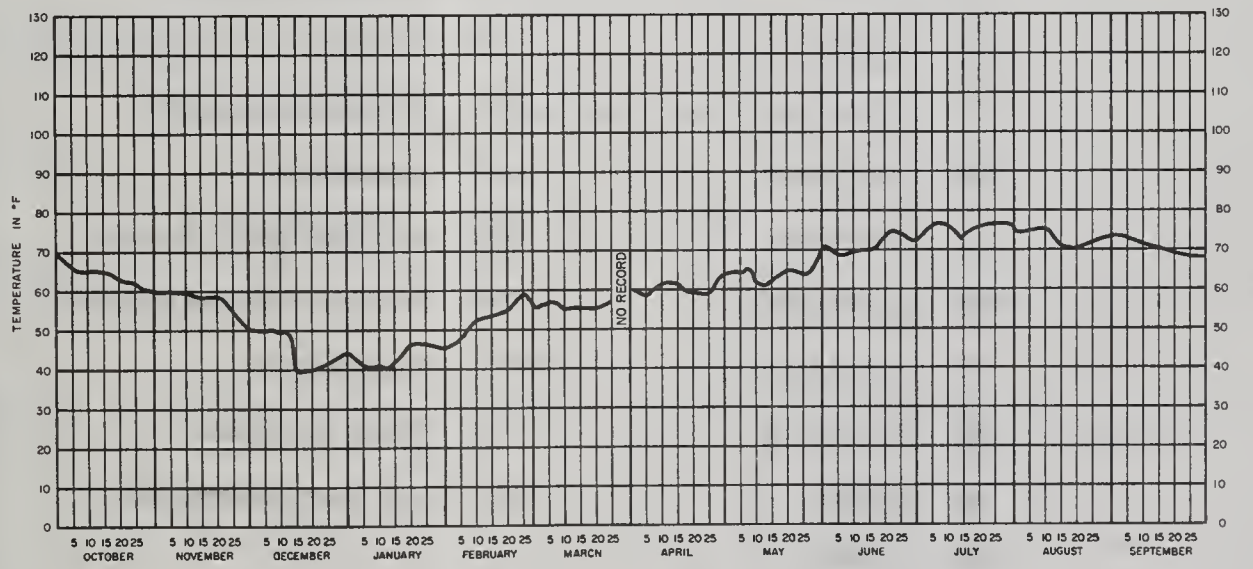
FIGURE D-2 (CONT)



MERCED RIVER NEAR STEVINSON
STA. No. 5125 RIVER MILE 4.6

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1968

FIGURE D-3



DELTA MENDOTA CANAL NEAR TRACY
STA. No. 5925 CANAL MILE 3.5

DAILY MEAN TEMPERATURE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1968

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources Bryte Laboratory or the U. S. Geological Survey Laboratory in Sacramento. The U. S. Geological Survey Laboratory is coded as 5000 and Bryte Laboratory as 5050.

The sampler codes are as follows:

5002	U. S. Army Corps of Engineers
5050	Department of Water Resources
5204	City and County of San Francisco
5633	Kern County Parks and Recreation

The following are definitions of chemical symbols and of abbreviations used in this table.

Chemical Symbols		Abbreviations	
B	Boron	DO	Dissolved Oxygen
CA	Calcium	EC	Electrical Conductance
CL	Chloride	FLD	Field Determination
CO3	Carbonate	LAB	Laboratory
F	Fluoride	NCH	Non Carbonate Hardness
HCO3	Bicarbonate	TDS	Total Dissolved Solids
K	Potassium	TEMP	Temperature
MG	Magnesium	TH	Total Hardness
NA	Sodium	SAT	Per Cent Saturation
NO3	Nitrate		
SIO2	Silica		
SO4	Sulfate		

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH O	DO SAT	TEMP	LABORATORY FIELD PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	IH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER									MILLIGRAMS PER LITER				
STATION NUMBER 800475.00 SALT SLOUGH AT SAN LUIS RANCH																				
05/07/68	5050	4.01	8.5	64	8.1	1930	90	43	249	6	0	169	373	284	11.0	--	2.50	--	1190	403
0920	5050	--	89		7.3	--	4.49	3.54	10.83	0.15	0.00	2.77	7.76	8.01	0.18				1142	264
06/05/68	5050	--	--	66	8.5	1390	--	--	168	--	6	162	152	243	4.7	--	0.40	--	--	282
0930	5050	--	--		7.5	1300			7.31		0.20	2.65	3.16	6.85	0.07				--	139
STATION NUMBER 800770.00 DELTA-MENDOTA CANAL NEAR MENDOTA																				
01/10/68	5050	--	--	42	8.9	592	27	14	67	3	7	75	87	72	2.0	--	0.40	--	328	125
0720	5050	--	--		--	81	1.35	1.15	2.91	0.08	0.23	1.23	1.81	2.03	0.03				317	52
01/10/68	5050	--	--	--	8.3	429	21	10	45	2	0	74	46	58	3.5	--	0.20	--	237	94
0730	5050	--	--		--	--	1.05	0.82	1.96	0.05	0.00	1.21	0.96	1.63	0.06				223	33
02/07/68	5050	--	--	--	8.2	859	39	20	97	3	0	115	111	130	5.5	--	0.60	--	494	177
0720	5050	--	--		--	--	1.95	1.64	4.22	0.08	0.00	1.88	2.31	3.67	0.09				463	83
04/02/68	5050	--	--	--	7.8	497	26	13	44	2	0	76	65	59	5.0	--	0.30	--	297	120
1400	5050	--	--		--	--	1.30	1.07	1.91	0.05	0.00	1.24	1.35	1.66	0.08				252	58
05/08/68	5050	--	--	64	7.9	254	16	8	21	2	0	74	20	23	3.4	--	0.20	--	144	75
0610	5050	--	--		7.4	--	0.80	0.66	0.91	0.05	0.00	1.21	0.42	0.65	0.05				130	14
06/07/68	5050	--	--	--	8.1	310	16	10	27	2	0	85	28	31	3.6	--	0.20	--	146	82
0630	5050	--	--		--	--	0.80	0.82	1.17	0.05	0.00	1.39	0.58	0.87	0.06				160	12
07/02/68	5050	--	--	--	7.9	392	18	--	38	2	0	84	29	48	20.0	--	0.00	--	224	90
0630	5050	--	--		--	--	0.90		1.65	0.05	0.00	1.38	0.60	1.35	0.32				197*	21
08/07/68	5050	--	--	--	7.9	621	16	14	74	4	0	80	38	117	1.5	--	0.10	--	314	100
1600	5050	--	--		--	--	0.80	1.15	3.22	0.10	0.00	1.31	0.79	3.30	0.02				304	34
09/11/68	5050	--	--	--	8.3	478	20	13	52	3	0	98	34	69	2.1	--	0.10	--	265	104
0640	5050	--	--		--	--	1.00	1.07	2.26	0.08	0.00	1.61	0.71	1.94	0.03				242	24
STATION NUMBER 803115.00 STANISLAUS RIVER AT KOETITZ RANCH																				
05/07/68	5050	7.69	13.1	71	7.7	284	23	11	17	2	0	130	15	9	5.3	--	0.00	--	158	104
1300	5050	--	147		7.9	--	1.15	0.90	0.74	0.05	0.00	2.13	0.31	0.25	0.08				147	0
06/06/68	5050	--	9.7	67	8.3	265	--	--	15	--	0	123	15	7	7.0	--	0.00	--	--	99
0905	5050	--	105		7.3	280			0.65		0.00	2.01	0.31	0.20	0.11				--	0
STATION NUMBER 804105.00 TUOLUMNE RIVER AT TUOLUMNE CITY																				
05/07/68	5050	--	11.4	71	8.2	807	42	15	82	6	0	144	9	152	11.0	--	0.10	--	450	168
1230	5050	--	128		7.6	--	2.09	1.23	3.57	0.15	0.00	2.36	0.19	4.29	0.18				388	50
06/06/68	5050	--	14.4	76	8.4	926	--	--	98	--	4	153	13	186	11.0	--	0.20	--	--	198
1305	5050	--	170		8.4	850			4.26		0.13	2.51	0.27	5.24	0.18				--	66
STATION NUMBER 804150.00 TUOLUMNE RIVER AT HICKMAN BRIDGE																				
05/09/68	5050	--	9.0	67	7.8	570	29	11	56	4	0	105	3	109	2.3	--	0.10	--	330	119
0900	5050	--	97		8.0	--	1.45	0.90	2.43	0.10	0.00	1.72	0.06	3.07	0.04				266	33
STATION NUMBER 805125.00 MERCED RIVER NEAR STEVINSON																				
05/07/68	5050	--	10.9	66	7.9	229	16	7	19	3	0	102	8	8	7.2	--	0.00	--	138	68
1030	5050	--	117		7.5	--	0.80	0.57	0.83	0.08	0.00	1.67	0.17	0.22	0.12				119	0
06/05/68	5050	--	10.0	78	8.3	213	--	--	19	--	0	96	8	8	6.4	--	0.10	--	--	64
1220	5050	--	120		8.0	220			0.83		0.00	1.57	0.17	0.22	0.10				--	0
STATION NUMBER 807020.00 SAN JOAQUIN RIVER NEAR VERNALIS																				
10/04/67	5000	13.88	8.0	67	7.5	529	31	12	53	3	0	123	39	75	5.1	0.2	0.10	20	--	127
0850	5050	--	86		8.4	450	1.55	0.99	2.30	0.08	0.00	2.01	0.81	2.11	0.08				299	26
11/08/67	5000	14.70	7.4	63	7.5	378	19	10	41	2	0	72	34	56	2.6	0.1	0.10	13	--	88
0930	5050	--	76		7.1	--	0.95	0.82	1.78	0.05	0.00	1.18	0.71	1.58	0.04				214	29
12/06/67	5000	15.20	9.8	52	7.6	368	19	9	40	2	0	77	37	50	2.3	0.1	0.20	12	--	86
1045	5050	--	89		7.3	--	0.95	0.74	1.74	0.05	0.00	1.26	0.77	1.41	0.04				210	23
01/10/68	5000	14.75	11.5	42	7.5	464	22	11	53	2	0	83	51	64	4.4	0.2	0.20	12	262	100
1045	5050	--	91		7.2	--	1.10	0.90	2.30	0.05	0.00	1.36	1.06	1.80	0.07				261	32
02/08/68	5000	13.70	9.1	56	7.4	752	35	17	89	3	0	120	89	108	6.4	0.0	0.40	17	--	158
1825	5050	--	86		7.4	750	1.75	1.40	3.87	0.08	0.00	1.97	1.85	3.04	0.10				424	60
03/06/68	5000	--	11.7	63	7.4	475	24	12	60	2	0	83	67	71	3.0	0.1	0.30	13	--	110
--	5050	--	121		7.8	522	1.20	0.99	2.61	0.05	0.00	1.36	1.39	2.00	0.05				294	42
04/03/68	5000	--	--	--	7.8	471	24	12	53	2	0	84	55	64	4.7	0.1	0.43	15	--	110
1100	5050	--	--		--	--	1.20	0.99	2.30	0.05	0.00	1.38	1.14	1.80	0.07				272	41
05/08/68	5000	10.57	11.4	68	7.4	1010	49	25	118	4	0	173	103	164	5.4	0.2	0.40	20	--	226
1145	5050	--	124		8.4	550	2.44	2.05	5.13	0.10	0.00	2.83	2.14	4.62	0.09				575	84

TABLE 0-2 (con't)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH O	DO SAT	TEMP	LABORATORY PH	LABORATORY EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
STATION NUMBER 807020.00 SAN JOAQUIN RIVER NEAR VERNALIS																				
06/05/68	5000	--	--	--	7.7	1200	59	30	143	--	0	194	110	216	6.0	0.3	0.32	20	--	270
--	5050	--	--		--	--	2.94	2.47	6.22		0.00	3.18	2.29	6.09	0.10				680	111
07/03/68	5000	--	--	--	7.3	1190	60	30	140	5	0	200	103	214	4.6	0.3	0.31	20	--	273
--	5050	--	--		--	--	2.99	2.47	6.09	0.13	0.00	3.28	2.14	6.03	0.07				676	109
08/07/68	5000	9.74	7.3	70	7.6	1070	52	26	124	5	0	186	86	188	4.0	0.2	0.30	22	--	236
0800	5050	--	81		7.9	--	2.59	2.14	5.39	0.13	0.00	3.05	1.79	5.30	0.06				599	83
09/04/68	5000	--	--	--	8.2	1040	53	26	126	5	0	194	91	179	6.2	0.2	0.30	26	--	239
0900	5050	--	--		--	--	2.64	2.14	5.48	0.13	0.00	3.18	1.89	5.05	0.10				609	80
STATION NUMBER 807040.00 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																				
05/09/68	5050	--	10.7	67	8.1	1120	52	28	123	4	0	175	112	186	9.6	--	0.60	--	624	244
1130	5050	--	115		8.3	--	2.59	2.30	5.35	0.11	0.00	2.87	2.33	5.24	0.15				602	100
06/05/68	5050	--	10.9	68	8.3	1380	--	--	128	--	0	194	129	244	8.3	--	0.50	--	--	292
1025	5050	--	119		7.7	1350			5.57		0.00	3.18	2.68	6.88	0.13				--	133
STATION NUMBER 807080.00 SAN JOAQUIN RIVER NEAR GARYSON																				
01/10/68	5050	--	13.0	42	8.2	1030	--	--	133	--	0	166	--	151	--	--	0.70	--	--	218
1500	5050	--	103		7.8	--			5.78		0.00	2.72		4.26					--	82
05/07/68	5050	--	13.1	67	81.0	12200	34	43	139	4	0	189	158	178	8.4	--	0.70	--	689	261
1200	5050	--	141		7.9	--	1.70	3.54	6.05	0.10	0.00	3.10	3.29	5.02	0.13				658	106
06/05/68	5050	--	8.5	69	8.3	1410	--	--	154	--	0	214	173	219	7.5	--	0.50	--	--	295
0820	5050	--	94		7.7	--			6.70		0.00	3.51	3.60	6.17	0.12				--	119
07/03/68	5050	--	8.9	75	7.7	942	--	--	69	--	0	158	--	137	--	--	0.30	--	--	219
1300	5050	--	104		8.3	--			3.00		0.00	2.59		3.86					--	89
STATION NUMBER 807200.00 SAN JOAQUIN RIVER AT PATTERSON BRIDGE																				
05/07/68	5050	--	12.2	67	8.1	1090	46	24	129	3	0	162	144	158	8.2	--	0.70	--	606	215
1130	5050	--	132		7.9	--	2.29	1.97	5.61	0.09	0.00	2.65	3.00	4.45	0.13				593	82
STATION NUMBER 807250.00 SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE																				
01/10/68	5050	41.20	12.1	45	7.8	1040	--	--	145	--	0	154	--	144	--	--	0.80	--	--	194
1250	5050	--	100		8.4	--			6.31		0.00	2.52		4.06					--	68
05/07/68	5050	39.23	11.(	67	8.1	1040	45	24	121	3	0	158	138	187	6.9	--	0.80	--	556	213
1100	5050	--	119		7.9	--	2.24	1.97	5.26	0.08	0.00	2.59	2.87	4.14	0.11				564	83
07/03/68	5050	--	10.5	75	7.9	1490	--	--	191	--	0	198	--	253	--	--	0.60	--	--	268
1040	5050	--	123		8.3	--			8.31		0.00	3.24		7.13					--	106
STATION NUMBER 807375.00 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																				
05/07/68	5050	25.71	9.9	64	7.5	1530	66	33	188	5	0	165	229	236	8.4	--	1.10	--	884	302
1000	5050	--	103		7.7	--	3.29	2.71	8.18	0.13	0.00	2.70	4.77	6.65	0.13				848	167
06/05/68	5050	--	12.7	76	8.2	1590	--	--	185	--	0	189	164	284	3.9	--	0.40	--	--	317
1350	5050	--	150		8.2	1260			8.05		0.00	3.10	3.41	8.01	0.06				--	162
STATION NUMBER 807710.00 SAN JOAQUIN RIVER NEAR MENDOTA																				
05/08/68	5050	--	--	--	8.2	270	17	8	24	1	0	78	25	25	2.8	--	0.20	--	154	77
0700	5050	--	--		--	--	0.85	0.66	1.04	0.03	0.00	1.28	0.52	0.70	0.04				142	13
STATION NUMBER 807885.00 SAN JOAQUIN RIVER BELOW FRIANT																				
05/06/68	5050	1.88	12.1	51	7.3	47	4	1	4	1	0	16	2	3	3.2	--	0.10	--	26	12
1030	5050	--	108		6.9	--	0.20	0.08	0.17	0.02	0.00	0.26	0.04	0.08	0.05				27*	0
STATION NUMBER 864200.00 CHOWCHILLA RIVER NEAR RAYMOND																				
05/06/68	5050	68.60	9.0	76	7.7	272	23	4	23	0	0	100	5	31	0.0	--	0.10	--	159	75
1240	5002	--	106		7.8	--	1.15	0.33	1	0.00	0.00	1.64	0.10	0.87	0.00				136*	0
09/03/68	5050	--	7.0	70	7.8	1170	91	10	109	7	0	136	4	284	1.9	--	0.20	--	669	271
1130	5050	--	78		7.2	--	4.54	0.82	4.74	0.18	0.00	2.23	0.08	8.01	0.03				574	159
STATION NUMBER 867150.00 FRESNO RIVER NEAR DAULTON																				
05/06/68	5050	--	10.0	66	7.6	78	6	1	7	0	0	30	4	7	0.0	--	0.00	--	49	21
1205	5050	--	107		7.3	--	0.30	0.08	0.30	0.00	0.00	0.49	0.08	0.20	0.00				40*	0
STATION NUMBER 895925.00 DELTA MENDOTA CANAL NEAR TRACY																				
10/17/67	5050	--	9.7	67	--	753	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0900	5050	--	105		8.0	--													--	--

TABLE D-2 (con't)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH O	DO SAT	TEMP	LABORATORY FIELD PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
					STATION NUMBER B95925.00		DELTA MENDOTA CANAL NEAR TRACY													
01/10/68	5050	0.00	3.3	43	8.0	673	26	18	76	3	0	95	74	108	7.2	--	0.50	--	370	138
1100	5050	--	26		7.0	--	1.30	1.48	3.30	0.08	0.00	1.56	1.54	3.04	0.12				360	60
02/07/68	5050	--	--	--	8.0	819	39	18	88	4	0	111	98	122	8.5	--	0.50	--	439	171
1120	5050	--	--		--	--	1.95	1.48	3.83	0.10	0.00	1.82	2.04	3.44	0.14				433	80
04/02/68	5050	--	--	--	7.9	443	25	12	38	2	0	77	54	51	3.6	--	0.30	--	268	110
0800	5050	--	--		--	--	1.25	0.99	1.65	0.05	0.00	1.26	1.12	1.44	0.06				224	47
05/08/68	5050	--	--	66	8.0	256	16	8	21	2	0	76	22	24	2.1	--	0.20	--	140	75
0945	5050	--	--		7.4	--	0.80	0.66	0.91	0.05	0.00	1.24	0.46	0.68	0.03				133	13
06/07/68	5050	--	--	--	8.0	391	20	11	33	2	0	93	34	43	3.0	--	0.20	--	169	97
1330	5050	--	--		--	--	1.00	0.90	1.43	0.05	0.00	1.52	0.71	1.21	0.05				192	21
07/02/68	5050	--	--	--	8.1	420	16	12	46	2	0	85	31	61	4.0	--	0.10	--	207	88
1210	5050	--	--		--	--	0.80	0.99	2	0.05	0.00	1.39	0.64	1.72	0.06				214	18
08/07/68	5050	--	--	--	7.7	604	16	14	70	3	0	79	34	112	2.1	--	0.10	--	300	97
1035	5050	--	--		--	--	0.80	1.15	3.04	0.08	0.00	1.29	0.71	3.16	0.03				290	32
09/11/68	5050	--	--	--	8.4	434	20	11	46	2	1	97	26	62	1.5	--	0.10	--	238	95
1240	5050	--	--		--	--	1.00	0.90	2	0.05	0.03	1.59	0.54	1.75	0.02				218	14
					STATION NUMBER C01140.00		KINGS RIVER BELOW PEOPLES WEIR													
01/12/68	5050	5.63	12.3	45	7.5	54	--	--	3	--	0	24	--	1	--	--	0.10	--	--	20
1315	5002	--	102		7.0	--			0.13		0.00	0.39		0.03					--	0
05/06/68	5050	3.56	9.2	63	7.5	150	12	5	10	2	0	71	6	4	1.6	--	0.00	--	85	52
0905	5002	--	95		7.0	--	0.60	0.41	0.43	0.05	0.00	1.16	0.12	0.11	0.02				76	0
07/01/68	5050	7.62	10.0	60	7.6	69	--	--	2	--	0	27	--	2	--	--	0.00	--	--	19
0900	5002	--	99		7.2	--			0.09		0.00	0.44		0.06					--	0
09/09/68	5050	--	8.6	73	7.0	46	5	1	2	1	0	21	1	2	0.8	--	0.00	--	23	16
1340	5002	--	99		7.2	--	0.25	0.08	0.09	0.02	0.00	0.34	0.02	0.06	0.01				24	0
					STATION NUMBER C02185.00		KAWEAH RIVER BELOW TERMINUS DAM													
10/03/67	5050	--	--	--	6.8	72	--	--	3	--	0	35	--	1	--	--	0.00	--	--	26
1000	5002	--	--		--	--			0.13		0.00	0.57		0.03					--	0
11/06/67	5050	--	7.5	63	6.7	20	--	--	5	--	0	9	--	3	--	--	0.00	--	--	7
1330	5002	--	77		--	--			0.22		0.00	0.15		0.08					--	0
					STATION NUMBER C02185.00		KAWEAH RIVER BELOW TERMINUS DAM													
12/04/67	5050	2.78	9.0	55	8.1	133	--	--	6	--	0	70	--	4	--	--	0.00	--	--	68
1200	5002	--	84		--	--			0.26		0.00	1.15		0.11					--	11
01/09/68	5050	1.93	9.5	48	8.0	130	16	4	6	2	0	84	1	4	0.4	--	0.10	--	80	55
0830	5002	--	82		--	--	0.80	0.33	0.26	0.05	0.00	1.38	0.02	0.11	0.01				75≠	0
02/06/68	5050	2.60	10.3	47	7.7	125	--	--	5	--	0	62	--	3	--	--	0.00	--	--	46
0930	5002	--	87		--	--			0.22		0.00	1.02		0.08					--	0
03/14/68	5050	2.96	10.0	53	7.5	95	--	--	4	--	0	47	--	2	--	--	0.00	--	--	36
0815	5002	--	92		--	--			0.17		0.00	0.77		0.06					--	0
04/10/68	5050	1.34	9.0	55	7.5	85	--	--	3	--	0	43	--	2	--	--	0.00	--	--	33
0825	5002	--	84		--	--			0.13		0.00	0.70		0.06					--	0
05/07/68	5050	2.42	8.6	59	7.6	66	8	1	3	1	0	32	5	0	0.5	--	0.00	--	43	23
1130	5002	--	85		--	--	0.40	0.08	0.13	0.02	0.00	0.52	0.12	0.00	0.01				36	0
06/06/68	5050	4.63	8.5	58	7.1	54	--	--	2	--	0	26	--	1	--	--	0.00	--	--	19
0925	5002	932	83		--	--			0.09		0.00	0.43		0.03					--	0
07/08/68	5050	3.74	8.0	71	7.3	58	--	--	2	--	0	28	--	1	--	--	0.00	--	--	22
0840	5002	--	90		--	--			0.09		0.00	0.46		0.03					--	0
08/06/68	5050	2.99	7.0	78	8.8	78	--	--	4	--	2	36	--	2	--	--	0.00	--	--	30
1315	5002	--	84		--	--			0.17		0.07	0.59		0.06					--	0
09/10/68	5050	0.81	6.9	75	7.3	103	12	2	3	2	0	48	2	4	1.4	--	0.00	--	50	38
0915	5002	--	81		--	--	0.60	0.16	0.13	0.05	0.00	0.79	0.04	0.11	0.02				50	0
					STATION NUMBER C03196.00		TULE RIVER BELOW SUCCESS DAM													
10/03/67	5050	5.01	9.5	76	7.9	207	--	--	10	--	0	114	--	4	--	--	0.00	--	--	81
1000	5002	251	112		--	--			0.43		0.00	1.87		0.11					--	0
11/09/67	5050	1.99	14.8	70	8.5	261	--	--	14	--	4	141	--	5	--	--	0.00	--	--	109
1245	5002	9.3	165		--	--			0.61		0.13	2.31		0.14					--	0
12/05/67	5050	4.32	10.6	58	8.3	296	--	--	15	--	0	167	--	7	--	--	0.10	--	--	129
1430	5002	--	103		--	--			0.65		0.00	2.74		0.20					--	0
01/08/68	5050	4.76	12.7	46	8.3	307	39	6	14	4	0	170	3	8	1.0	--	0.10	--	175	122
1350	5002	--	106		--	--	1.95	0.49	0.61	0.10	0.00	2.79	0.06	0.22	0.02				159	0
02/05/68	5050	--	--	--	8.1	297	--	--	15	--	0	162	--	9	--	--	0.00	--	--	116
1240	5002	--	--		--	--			0.65		0.00	2.65		0.25					--	0

TABLE D-2 (con't)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH O	DO SAT	TEMP	LABORATORY FIELD PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TOS SUM	TH NCH
							STATION NUMBER C03196.00 TULE RIVER BELOW SUCCESS DAM													
03/07/68	5050	4.00	11.6	51	7.9	294	--	--	14	--	0	161	--	8	--	--	0.00	--	--	119
0920	5002	--	103		--	--			0.61		0.00	2.64		0.22					--	0
04/08/68	5050	--	16.7	60	8.5	279	--	--	14	--	3	145	--	7	--	--	0.00	--	--	108
0850	5002	--	166		--	--			0.61		0.10	2.38		0.20					--	0
05/06/68	5050	2.66	14.9	56	8.2	263	32	6	14	3	0	146	6	7	0.5	--	0.10	--	141	103
1000	5002	27.0	142		--	--	1.60	0.49	0.61	0.08	0.00	2.39	0.12	0.20	0.01				141	0
06/03/68	5050	--	12.3	61	8.1	250	--	--	13	--	0	137	--	6	--	--	0.00	--	--	98
1300	5002	--	124		--	--			0.56		0.00	2.24		0.17					--	0
08/12/68	5050	5.42	7.3	78	8.3	273	--	--	15	--	0	148	--	6	--	--	0.00	--	--	110
1015	5002	--	88		--	--			0.65		0.00	2.42		0.17					--	0
09/03/68	5050	2.26	10.9	72	8.2	290	33	7	14	4	0	160	3	7	1.8	--	0.10	--	121	111
1350	5002	14.0	124		--	--	1.65	0.57	0.61	0.10	0.00	2.62	0.06	0.20	0.03				149	0
							STATION NUMBER C05150.00 KERN RIVER NEAR BAKERSFIELD													
10/02/67	5050	--	--	--	7.1	106	--	--	8	--	0	51	--	2	--	--	0.00	--	--	33
0830	5633	--	--		--	--			0.35		0.00	0.83		0.06					--	0
01/11/68	5050	49.33	--	45	8.0	155	--	--	12	--	0	73	--	4	--	--	0.10	--	--	48
0830	5633	--	--		--	--			0.52		0.00	1.20		0.11					--	0
05/03/68	5050	49.69	--	61	8.0	159	14	3	14	2	0	74	7	5	0.4	--	0.20	--	90	48
1130	5633	--	--		--	--	0.70	0.25	0.61	0.05	0.00	1.21	0.14	0.14	0.01				82≠	0
07/00/68	5050	49.84	--	70	8.2	132	--	--	10	--	0	61	--	5	--	--	0.00	--	--	39
0945	5633	--	--		--	--			0.43		0.00	1.00		0.14					--	0
09/03/68	5050	--	--	70	7.9	154	13	3	12	2	0	67	9	6	1.2	--	0.10	--	68	43
1030	5633	--	--		--	--	0.65	0.25	0.52	0.05	0.00	1.10	0.19	0.17	0.02				80	0
							STATION NUMBER C11140.00 KINGS RIVER BELOW PINE FLAT DAM													
10/09/67	5050	--	11.0	55	6.8	23	--	--	1	--	0	10	--	0	--	--	0.00	--	--	1
1325	5002	1850	103		--	--			0.04		0.00	0.16		0.00					--	0
11/06/67	5050	1.92	10.0	57	7.9	116	--	--	1	--	0	58	--	0	--	--	--	--	--	44
0935	5002	216	96		--	--			0.04		0.00	0.95		0.00					--	0
12/11/67	5050	3.74	10.1	54	7.0	23	--	--	1	--	0	10	--	1	--	--	0.00	--	--	13
1400	5002	1004	94		--	--			0.04		0.00	0.16		0.03					--	5
							STATION NUMBER C11140.00 KINGS RIVER BELOW PINE FLAT DAM													
01/08/68	5050	3.87	10.2	50	7.6	32	3	1	2	1	0	16	1	1	0.4	--	0.00	--	33	14
1310	5002	1010	90		--	--	0.15	0.08	0.09	0.02	0.00	0.26	0.02	0.03	0.01				18≠	1
02/12/68	5050	2.54	10.3	52	7.5	36	--	--	2	--	0	6	--	0	--	--	0.00	--	--	12
1340	5002	420	93		--	--			0.09		0.00	0.10		0.00					--	7
03/11/68	5050	--	--	--	7.3	40	--	--	2	--	0	17	--	1	--	--	0.00	--	--	12
1315	5002	--	--		--	--			0.09		0.00	0.28		0.03					--	0
04/08/68	5050	1.87	10.2	54	7.4	35	--	--	2	--	0	17	--	0	--	--	0.00	--	--	13
1045	5002	55.0	95		--	--			0.09		0.00	0.28		0.00					--	0
05/13/68	5050	4.41	10.2	51	7.4	34	3	1	2	1	0	15	2	1	0.2	--	0.00	--	23	11
1320	5002	1400	91		--	--	0.15	0.08	0.09	0.02	0.00	0.24	0.04	0.03	0.00				18≠	0
06/11/68	5050	6.38	10.3	54	7.2	32	--	--	2	--	0	15	--	1	--	--	0.00	--	--	10
1345	5002	4325	95		--	--			0.09		0.00	0.24		0.03					--	0
07/09/68	5050	6.15	10.1	60	7.5	26	--	--	1	--	0	13	--	0	--	--	0.00	--	--	9
1250	5002	3948	100		--	--			0.04		0.00	0.21		0.00					--	0
08/12/68	5050	4.38	11.0	69	7.3	31	--	--	1	--	0	13	--	1	--	--	0.00	--	--	10
1230	5002	424	121		--	--			0.04		0.00	0.21		0.03					--	0
09/09/68	5050	4.59	10.1	66	7.1	29	3	0	1	1	0	14	1	1	0.0	--	0.00	--	12	10
1315	5002	1610	108		--	--	0.15	0.00	0.04	0.02	0.00	0.23	0.02	0.03	0.00				14≠	0
							STATION NUMBER C11320.00 BIG CREEK ABOVE PINE FLAT DAM													
10/09/67	5050	--	--	--	7.2	114	--	--	10	--	0	49	--	6	--	--	0.10	--	--	33
1400	5002	--	--		--	--			0.43		0.00	0.80		0.17					--	0
11/06/67	5050	1.33	10.8	60	7.2	57	--	--	10	--	0	24	--	7	--	--	--	--	--	18
1035	5002	15.0	107		--	--			0.43		0.00	0.39		0.20					--	0
12/11/67	5050	--	--	--	8.7	107	--	--	8	--	3	45	--	6	--	--	0.00	--	--	44
1500	5002	--	--		--	--			0.35		0.10	0.74		0.17					--	2
01/08/68	5050	1.66	10.6	42	--	105	10	2	8	2	0	46	3	5	0.2	--	0.00	--	86	33
1030	5002	30.0	84		--	--	0.50	0.16	0.35	0.05	0.00	0.75	0.06	0.14	0.00				53≠	0
02/12/68	5050	1.80	10.2	46	7.8	90	--	--	5	--	0	43	--	2	--	--	0.00	--	--	27
1035	5002	30.0	85		--	--			0.22		0.00	0.70		0.06					--	0
03/11/68	5050	--	--	--	7.7	86	--	--	5	--	0	42	--	3	--	--	0.00	--	--	27
1015	5002	--	--		--	--			0.22		0.00	0.69		0.08					--	0

TABLE D-2 (con't)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY FIELD PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TOS SUM	TH NCH
							STATION NUMBER C11320.00		BIG CREEK ABOVE PINE FLAT DAM											
04/08/68	5050	3.94	10.4	52	7.8	79	--	--	5	--	0	40	--	3	--	--	0.00	--	--	25
1330	5002	1061	94		--	--			0.22		0.00	0.65		0.08					--	0
05/13/68	5050	1.61	10.0	54	7.9	99	8	2	8	2	0	48	--	4	0.0	--	0.00	--	75	28
1030	5002	32.0	93		--	--	0.40	0.16	0.35	0.05	0.00	0.79		0.11	0.00				48*	0
06/11/68	5050	1.40	10.0	66	7.5	105	--	--	9	--	0	47	--	6	--	--	0.00	--	--	29
1030	5002	25.0	107		--	--			0.39		0.00	0.77		0.17					--	0
07/09/68	5050	1.09	10.0	76	8.2	143	--	--	12	--	0	58	--	12	--	--	0.00	--	--	41
1020	5002	20.0	118		--	--			0.52		0.00	0.95		0.34					--	0
							STATION NUMBER C11460.00		KINGS RIVER BELOW NORTH FORK											
10/09/67	5050	--	--	--	6.7	46	--	--	3	--	0	18	--	1	--	--	0.10	--	--	14
1500	5002	--	--		--	--			0.13		0.00	0.29		0.03					--	0
11/06/67	5050	2.68	12.0	55	7.9	123	--	--	3	--	0	55	--	2	--	--	--	--	--	36
1135	5002	263	113		--	--			0.13		0.00	0.90		0.06					--	0
12/11/67	5050	--	--	--	7.6	54	--	--	3	--	0	27	--	2	--	--	0.00	--	--	25
1600	5002	--	--		--	--			0.13		0.00	0.44		0.06					--	3
01/08/68	5050	2.93	10.5	38	7.6	58	6	1	4	1	0	26	2	2	0.1	--	0.00	--	46	19
1120	5002	336	78		--	--	0.30	0.08	0.17	0.02	0.00	0.43	0.04	0.06	0.00				29*	0
02/12/68	5050	3.22	10.1	46	7.5	57	--	--	3	--	0	24	--	0	--	--	0.00	--	--	18
1100	5002	491	85		--	--			0.13		0.00	0.39		0.00					--	0
03/11/68	5050	--	--	--	7.5	49	--	--	2	--	0	21	--	0	--	--	0.00	--	--	15
1115	5002	--	--		--	--			0.09		0.00	0.34		0.00					--	0
04/08/68	5050	4.40	10.3	53	7.4	37	--	--	2	--	0	18	--	0	--	--	0.00	--	--	12
1135	5002	1222	94		--	--			0.09		0.00	0.29		0.00					--	0
05/13/68	5050	5.32	10.1	48	7.3	24	2	0	2	0	0	10	2	0	0.0	--	0.00	--	10	6
1115	5002	2430	87		--	--	0.10	0.00	0.09	0.00	0.00	0.16	0.04	0.00	0.00				11*	0
06/11/68	5050	4.88	10.1	61	6.9	28	--	--	2	--	0	10	--	1	--	--	0.00	--	--	8
1130	5002	1550	102		--	--			0.09		0.00	0.16		0.03					--	0
07/09/68	5050	3.86	10.0	69	7.5	33	--	--	2	--	0	14	--	0	--	--	0.00	--	--	11
1115	5002	858	110		--	--			0.09		0.00	0.23		0.00					--	0
08/12/68	5050	2.83	8.0	74	7.2	47	--	--	3	--	0	19	--	2	--	--	0.00	--	--	15
0950	5002	264	93		--	--			0.13		0.00	0.31		0.06					--	0
							STATION NUMBER C11460.00		KINGS RIVER BELOW NORTH FORK											
09/09/68	5050	2.36	--	71	7.4	58	6	1	3	1	0	25	4	3	0.0	--	0.00	--	31	20
1100	5002	78.0	--		--	--	0.30	0.08	0.13	0.02	0.00	0.41	0.08	0.08	0.00				31*	0
							STATION NUMBER C21250.00		KAWEAH RIVER AT THREE RIVERS											
01/09/67	5050	3.00	10.3	58	8.1	120	15	3	5	1	0	59	2	4	0.1	--	0.00	--	77	49
0900	5002	--	100		--	--	0.75	0.25	0.22	0.02	0.00	0.97	0.04	0.11	0.00				60*	1
10/03/67	5050	--	--	--	7.6	96	--	--	4	--	0	48	--	2	--	--	0.00	--	--	35
1130	5050	--	--		--	--			0.17		0.00	0.79		0.06					--	0
11/06/67	5050	--	9.2	61	8.0	135	--	--	7	--	0	68	--	5	--	--	0.00	--	--	50
1445	5002	--	93		--	--			0.30		0.00	1.11		0.14					--	0
12/04/67	5050	2.70	11.0	47	8.0	114	--	--	6	--	0	59	--	4	--	--	0.00	--	--	59
1330	5002	--	93		--	--			0.26		0.00	0.97		0.11					--	11
02/06/68	5050	3.31	11.5	45	7.8	104	--	--	4	--	0	50	--	4	--	--	0.00	--	--	40
1035	5002	--	95		--	--			0.17		0.00	0.82		0.11					--	0
03/14/68	5050	3.84	10.1	48	7.7	89	--	--	4	--	0	44	--	3	--	--	0.00	--	--	33
0830	5002	--	87		--	--			0.17		0.00	0.72		0.08					--	0
04/10/68	5050	4.80	10.0	51	7.5	61	--	--	3	--	0	32	--	1	--	--	0.00	--	--	22
0935	5002	--	89		--	--			0.13		0.00	0.52		0.03					--	0
05/07/68	5050	5.20	9.8	56	7.3	40	5	1	2	0	0	20	4	1	0.1	--	0.00	--	28	16
1345	5002	--	93		--	--	0.25	0.08	0.09	0.00	0.00	0.33	0.08	0.03	0.00				23*	0
06/06/68	5050	--	10.0	56	7.4	45	--	--	2	--	0	21	--	1	--	--	0.00	--	--	16
1015	5002	492	95		--	--			0.09		0.00	0.34		0.03					--	0
07/08/68	5050	2.80	7.9	72	7.6	83	--	--	3	--	0	40	--	2	--	--	0.00	--	--	30
0935	5002	--	90		--	--			0.13		0.00	0.65		0.06					--	0
08/06/68	5050	2.25	7.2	79	8.2	115	--	--	6	--	0	55	--	5	--	--	0.00	--	--	45
1515	5002	--	88		--	--			0.26		0.00	0.90		0.14					--	0
08/14/68	5050	2.20	--	76	8.0	108	13	2	6	2	0	52	2	4	0.0	--	0.00	--	68	39
1415	5002	50.0	--		--	--	0.65	0.16	0.26	0.05	0.00	0.85	0.04	0.11	0.00				55*	0
09/10/68	5050	1.92	8.7	75	7.8	154	17	3	7	3	0	68	4	9	0.0	--	0.00	--	75	53
1045	5002	--	102		--	--	0.85	0.25	0.30	0.08	0.00	1.11	0.08	0.25	0.00				77	0

TABLE D-2 (con't)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY PH	FIELD EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER													
							MILLIEQUIVALENTS PER LITER													
																			MILLIGRAMS PER LITER	
STATION NUMBER C31150.00 TULE RIVER NEAR SPRINGVILLE																				
10/03/67	5050	--	8.8	64	8.3	331	--	--	17	--	0	188	--	7	--	--	0.10	--	--	134
0930	5002	--	92		--	--			0.74		0.00	3.08		0.20					--	0
11/09/67	5050	2.94	9.4	58	8.6	393	--	--	20	--	7	203	--	10	--	--	0.20	--	--	158
1040	5002	--	91		--	--			0.87		0.23	3.33		0.28					--	0
12/05/67	5050	3.00	10.9	50	8.7	316	--	--	16	--	10	159	--	8	--	--	0.10	--	--	133
1400	5002	--	96		--	--			0.69		0.33	2.61		0.22					--	0
01/08/68	5050	3.48	12.6	42	8.1	319	41	7	15	3	0	179	--	9	0.1	--	0.10	--	183	129
1320	5002	--	99		--	--	2.04	0.57	0.65	0.08	0.00	2.93		0.25	0.00				164	0
02/05/68	5050	--	--	50	8.5	258	--	--	13	--	0	136	--	7	--	--	0.00	--	--	100
1310	5002	--	--		--	--			0.56		0.00	2.23		0.20					--	0
03/07/68	5050	2.98	10.6	48	8.1	220	--	--	10	--	0	121	--	4	--	--	0.00	--	--	87
0845	5002	--	91		--	--			0.43		0.00	1.98		0.11					--	0
04/08/68	5050	--	11.3	47	8.1	192	--	--	9	--	0	106	--	5	--	--	0.00	--	--	78
0900	5002	--	96		--	--			0.39		0.00	1.74		0.14					--	0
05/06/68	5050	3.28	9.6	54	8.1	185	22	4	10	2	0	102	2	4	0.6	--	0.00	--	101	72
0930	5002	--	89		--	--	1.10	0.33	0.43	0.05	0.00	1.67	0.04	0.11	0.01				95	0
06/03/68	5050	--	7.9	79	8.2	237	--	--	12	--	0	132	--	5	--	--	0.10	--	--	90
1345	5002	--	96		--	--			0.52		0.00	2.16		0.14					--	0
07/05/68	5050	3.16	8.7	71	8.3	374	--	--	20	--	0	200	--	10	--	--	0.10	--	--	142
0910	5002	--	98		--	--			0.87		0.00	3.28		0.28					--	0
08/12/68	5050	2.93	8.2	72	8.4	403	--	--	25	--	3	206	--	13	--	--	0.10	--	--	151
0930	5002	--	93		--	--			1.09		0.10	3.38		0.37					--	0
09/03/68	5050	3.00	7.4	81	8.2	418	42	10	28	5	0	218	7	15	0.6	--	0.20	--	183	148
1320	5002	3.8	92		--	--	2.09	0.82	1.22	0.13	0.00	3.57	0.14	0.42	0.01				215	0
STATION NUMBER C51350.00 KERN RIVER BELOW ISABELLA DAM																				
01/12/68	5050	--	10.9	43	8.1	143	14	3	11	2	0	68	5	4	0.1	--	0.10	--	84	46
1430	5002	7.2	87		--	--	0.70	0.25	0.48	0.05	0.00	1.11	0.10	0.11	0.00				73≠	0
05/24/68	5050	6.08	9.0	60	8.0	141	12	3	12	2	0	65	5	4	0.7	--	0.10	--	81	42
0900	5002	375	89		--	--	0.60	0.25	0.52	0.05	0.00	1.06	0.10	0.11	0.01				71≠	0
07/08/68	5050	7.56	8.0	70	7.8	127	--	--	10	--	0	59	--	4	--	--	0.00	--	--	38
0730	5002	902	89		--	--			0.43		0.00	0.97		0.11					--	0
STATION NUMBER C51350.00 KERN RIVER BELOW ISABELLA DAM																				
09/03/68	5050	--	8.3	66	7.7	152	13	3	12	1	0	70	3	6	0.7	--	0.20	--	78	44
1015	5002	9.8	89		--	--	0.65	0.25	0.52	0.02	0.00	1.15	0.06	0.17	0.01				74	0
STATION NUMBER C51500.00 KERN RIVER AT KERNVILLE																				
01/12/68	5050	4.29	12.0	37	8.1	128	11	3	10	1	0	59	6	5	0.1	--	0.10	--	84	39
1400	5002	430	88		--	--	0.55	0.25	0.43	0.02	0.00	0.97	0.12	0.14	0.00				66	0
05/24/68	5050	5.42	10.1	51	7.5	61	5	1	5	1	0	27	2	2	0.1	--	0.00	--	40	17
0830	5002	1156	90		--	--	0.25	0.08	0.22	0.02	0.00	0.44	0.04	0.06	0.00				30≠	0
07/08/68	5050	4.31	8.3	67	7.6	98	--	--	7	--	0	44	--	2	--	--	0.00	--	--	27
0800	5002	415	89		--	--			0.30		0.00	0.72		0.06					--	0
09/03/68	5050	--	9.0	60	7.8	171	14	3	14	2	0	74	9	8	0.0	--	0.20	--	88	48
1315	5002	--	89		--	--	0.70	0.25	0.61	0.05	0.00	1.21	0.19	0.22	0.00				87	0

TABLE D-3

TRACE MINERAL ANALYSES OF SURFACE WATER

This table presents trace mineral analyses performed by the Department of Water Resources Laboratory. The following are definitions of chemical symbols and of abbreviations used in this table.

Chemical Symbols

AL	Aluminum	GA	Gallium
AS	Arsenic	GE	Germanium
BE	Beryllium	LI	Lithium
BI	Bismuth	MN	Manganese
BR	Bromine	MO	Molybdenum
CD	Cadmium	NI	Nickel
CO	Cobalt	PB	Lead
CR	Chromium	TI	Titanium
CU	Copper	V	Vanadium
FE	Iron	ZN	Zinc

Abbreviations

LAB	Laboratory	U	Micrograms per liter
M	Milligrams per liter	Y	Less than the amount indicated

TABLE D-3

TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	GA	GE
B00770.00	05-08-68	5050	000.0 --	000.0 000.0	-- --	-- --	-- 000.1U	-- --	-- --	-- 000.0	000.2U	000.7U	--	--
B03115.00	05-07-68	5050	000.3U --	000.0 000.0	-- --	-- --	-- 000.1U	-- --	-- --	-- 000.0	000.1U --	000.3U	--	--
B04105.00	05-07-68	5050	000.4U --	000.1U 000.0	-- --	-- --	-- 000.2U	-- --	-- --	-- 000.0	000.0 --	000.4	--	--
B05125.00	05-07-68	5050	000.4U --	000.0 000.0	-- --	-- --	-- 000.1U	-- --	-- --	-- 000.1U	000.0 --	000.3U --	--	--
B07020.00	10-04-67	5000	-- 000.1U	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 003.0U	--	--	--
B07020.00	11-08-67	5000	-- 000.1UY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 001.4U	--	--	--
B07020.00	12-06-67	5000	-- 000.1UY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 002.2U	--	--	--
B07020.00	01-10-68	5000	-- 000.0	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 003.0U	--	--	--
B07020.00	02-08-68	5000	-- 000.1U	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 003.5U	--	--	--
B07020.00	03-06-68	5000	-- 000.1U	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 002.6U	--	--	--
B07020.00	04-03-68	5000	-- 000.1U	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 003.0U	--	--	--
B07020.00	05-08-68	5000	-- 000.2U	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 006.4U	--	--	--
B07020.00	06-05-68	5000	-- 000.1U	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 006.3U	--	--	--
B07020.00	07-03-68	5000	-- 000.1U	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 006.5U	--	--	--
B07020.00	08-07-68	5000	-- 000.1U	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 005.6U	--	--	--
B07020.00	09-04-68	5000	-- 000.1U	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 005.0U	--	--	--
B07375.00	05-07-68	5050	000.3U --	000.0 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.1U	000.0 --	000.3U	--	--
B07710.00	05-08-68	5050	000.0 --	000.1U 000.0	-- --	-- --	-- 000.1U	-- --	-- --	-- 000.0	000.0 --	001.8U	--	--
B64200.00	09-03-68	5050	000.3U --	000.1U 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.0	000.0 --	000.0	--	--
B95925.00	05-08-68	5050	000.0 --	000.0 000.0	-- --	-- --	-- 000.2U	-- --	-- --	-- 000.0	000.1U	000.6U	--	--
C01140.00	05-06-68	5050	000.0 --	000.0 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.1U	000.0U --	000.8U	--	--
C01140.00	09-09-67	5050	000.0 --	000.1U 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.0	000.0 --	000.1U	--	--
C02185.00	01-09-68	5050	-- --	000.0 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C02185.00	09-10-68	5050	000.0 --	000.2U 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.0	000.0 --	000.3U	--	--
C03196.00	01-08-68	5050	-- --	000.0 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C03196.00	09-03-68	5050	000.1U --	000.0 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.0	000.0 --	000.0	--	--
C05150.00	05-03-68	5050	000.2U --	000.1U 000.0	-- --	-- --	-- 000.1U	-- --	-- --	-- 000.1U	000.1U	000.0	--	--
C05150.00	09-03-68	5050	000.0 --	000.0 000.0	-- --	-- --	-- 000.2U	-- --	-- --	-- 000.0	000.0 --	000.0	--	--
C11140.00	09-09-68	5050	000.6U --	000.1U 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.0	000.1U --	000.0	--	--
C11460.00	09-09-68	5050	000.0 --	000.0 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.1U	000.0 --	001.1U	--	--
C21250.00	01-09-68	5050	-- --	000.0 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C21250.00	09-10-68	5050	000.0 --	000.0 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.0	000.0 --	000.2U	--	--
C31150.00	01-08-68	5050	-- --	000.0 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C31150.00	05-06-68	5050	000.3U --	000.1U 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.1U	000.0 --	000.4U	--	--
C31150.00	09-03-68	5050	000.1U --	000.1U 000.0	-- --	-- --	-- 000.3U	-- --	-- --	-- 000.0	000.0 --	000.0	--	--
C51350.00	09-03-68	5050	000.3U --	000.3U 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.0	000.0 --	000.0	--	--
C51500.00	09-03-67	5050	000.0 --	000.4U 000.0	-- --	-- --	-- 000.0	-- --	-- --	-- 000.0	000.0 --	000.0	--	--

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-4 presents analyses which do not appear on Tables D-2 and D-3. The definitions of symbols and of abbreviations used in this table are as follows:

DET	Detergents
TRB	Turbidity
P	Total phosphates
PO6	Ortho phosphate
POT	Total and organic phosphates
M	Milligrams per liter

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

STATION NO.	DATE	LAB	TRB	DET	NUTRIENTS NH_4	NO_2	NO_3	NO	PO_6	P	POT
B00770.00	01-10-68	5050	0020.M	--	00.00	00.01M	000.2M	000.9M	00.03M	00.07M	00.20M
B00770.00	02-07-68	5050	--	--	--	--	--	00.72M	--	--	00.33M
B00770.00	02-13-68	5050	--	--	00.07M	00.02M	001.4M	000.4M	00.35M	00.52M	00.57M
B00770.00	04-02-68	5050	0080.M	--	--	--	--	--	--	--	--
B00770.00	05-08-68	5050	0140.M	--	--	--	--	--	--	--	--
B00770.00	06-07-68	5050	--	--	--	--	--	000.5M	--	--	00.97M
B00770.00	07-02-68	5050	0140.M	--	--	--	--	--	--	--	--
B00770.00	08-07-68	5050	0055.M	--	--	--	--	--	--	--	--
B00770.00	09-11-68	5050	0002.M	--	--	--	--	--	--	--	--
B07020.00	10-04-67	5000	0024.M	--	--	--	--	--	--	00.79M	--
B07020.00	11-08-67	5000	0012.M	--	--	--	--	--	--	00.14M	--
B07020.00	12-06-67	5000	0153.M	--	--	--	--	--	--	00.50M	--
B07020.00	01-10-68	5000	0005.M	--	--	--	--	--	--	00.07M	--
B07020.00	02-08-68	5000	0028.M	--	--	--	--	--	--	00.76M	--
B07020.00	03-06-68	5000	0014.M	--	--	--	--	--	--	00.54M	--
B07020.00	04-03-68	5000	0030.M	--	--	--	--	--	--	00.41M	--
B07020.00	05-08-68	5000	0060.M	--	--	--	--	--	--	00.84M	--
B07020.00	06-05-68	5000	0030.M	--	--	--	--	--	--	00.16M	--
B07020.00	07-03-68	5000	0040.M	--	--	--	--	--	--	01.18M	--
B07020.00	08-07-68	5000	0060.M	--	--	--	--	--	--	01.33M	--
B07080.00	01-10-68	5050	0030.M	--	--	--	--	--	--	--	--
B95925.00	01-10-68	5050	0020.M	--	00.04M	00.01M	000.6M	000.6M	00.52M	00.59M	00.64M
B95925.00	02-07-68	5050	--	--	--	--	--	--	--	--	00.28M
B95925.00	04-02-68	5050	0030.M	--	--	--	--	--	--	--	--
B95925.00	05-08-68	5050	0080.M	--	--	--	--	--	--	--	--
B95925.00	06-07-68	5050	--	--	--	--	--	000.5M	--	--	00.79M
B95925.00	07-02-68	5050	0055.M	--	--	--	--	--	--	--	--
B95925.00	08-07-68	5050	0030.M	--	--	--	--	--	--	--	--
B95925.00	09-11-68	5050	0055.M	--	--	--	--	--	--	--	--
C01140.00	01-12-68	5050	0006.M	--	--	--	--	--	--	--	--
C02185.00	01-09-68	5050	--	000.0M	--	--	--	--	--	00.14M	--
C02185.00	06-06-68	5050	0002.M	--	--	--	--	--	--	--	--
C03196.00	01-08-68	5050	--	000.0M	--	--	--	--	--	00.04M	--
C03196.00	06-03-68	5050	0002.M	--	--	--	--	--	--	--	--
C05150.00	01-11-68	5050	0002.M	--	--	--	--	--	--	--	--
C11140.00	06-11-68	5050	0001.M	--	--	--	--	--	--	--	--
C11320.00	06-11-68	5050	000.9M	--	--	--	--	--	--	--	--
C11460.00	06-11-68	5050	000.9M	--	--	--	--	--	--	--	--
C21250.00	01-09-68	5050	--	000.0M	--	--	--	--	--	00.01M	--
C21250.00	06-06-68	5050	0001.M	--	--	--	--	--	--	--	--
C31150.00	01-08-68	5050	--	000.0M	--	--	--	--	--	00.15M	--
C31150.00	06-03-68	5050	0002.M	--	--	--	--	--	--	--	--
C51350.00	01-12-68	5050	0010.M	--	--	--	--	--	--	--	--

APPENDIX E

GROUND WATER QUALITY

INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1968 water year (October 1, 1967 through September 30, 1968). These data were obtained from analyses of water samples from approximately 200 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for the 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 141.

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

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

5000	U. S. Geological Survey Laboratory
5050	State Department of Water Resources
5055	State Water Quality Control Board
5060	State Department of Public Health
5070	State Division of Forestry
5121	Kern County Water Agency
5203	City of Modesto
5207	City of Firebaugh
5521	Modesto Irrigation District
5702	Individual Property Owner
5703	Valley Waste Disposal Company
5802	Twining Laboratory
5803	Hornkohl Laboratory
5806	B. C. Laboratory

Explanation of county code is listed on page 12.

Chemical Symbols

K	Potassium	B	Boron
MG	Magnesium	CA	Calcium
NA	Sodium	CL	Chloride
NO3	Nitrate	CO3	Carbonate
SI02	Silica	F	Fluoride
S04	Sulfate	HC03	Bicarbonate

Abbreviations

EC	Electrical Conductance	TDS	Total Dissolved Solids
FLD	Field Determination	TEMP	Temperature
LAB	Laboratory	TH	Total Hardness
NCH	Non Carbonate Hardness		

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	TEMP LAB	PH COUNTY	EC SAMPLER	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
					MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
					MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER, PERCENT REACTANCE VALUES													
01N/14E-03R01M	--		8.4	502	58	16	13	0	3	218	29	22	0.4	--	0.00	--	266	209
05/23/68	--	5050	55	--	2.89	1.31	0.56	0.00	0.10	3.57	0.60	0.62	0.01				249	25
					61	27	12	0	2	73	12	13	0					
01N/14E-11Q01M	--		8.3	516	53	26	15	1	0	218	53	18	22.0	--	0.00	--	313	238
05/23/68	--	5050	55	--	2.64	2.14	0.65	0.02	0.00	3.57	1.10	0.51	0.35				295	59
					48	39	12	0	0	64	20	9	6					
01N/15E-06B01M	--		8.2	448	48	20	12	3	0	245	26	8	0.1	--	0.00	--	244	204
05/23/68	--	5050	55	--	2.39	1.64	0.52	0.08	0.00	4.02	0.54	0.22	0.00				238	3
					52	35	11	2	0	84	11	5	0					
02N/14E-23N01M	--		8.4	596	77	20	8	1	4	340	5	9	1.2	--	0.00	--	290	276
05/23/68	--	5050	55	--	3.84	1.64	0.35	0.02	0.13	5.58	0.10	0.25	0.02				292	0
					66	28	6	0	2	92	2	4	0					
03N/17E-20Q01M	--		8.0	99	9	2	5	1	0	43	0	9	4.5	--	0.20	--	72	32
05/20/68	--	5050	55	--	0.45	0.16	0.22	0.02	0.00	0.70	0.00	0.25	0.07				52	0
					52	19	25	3	0	68	0	25	7					
05N/15E-29L01M	--		8.1	77	--	--	3	--	0	45	--	1	0.2	--	--	--	--	28
05/20/68	--	5050	55	--	--	--	0.13	--	0.00	0.74	--	0.03	0.00				--	0
05N/15E-29M01M	--		7.6	53	5	0	3	1	0	20	0	1	4.3	--	0.20	--	40	13
05/20/68	--	5050	55	--	0.25	0.00	0.13	0.02	0.00	0.33	0.00	0.03	0.07				25	0
					61	0	32	6	0	77	0	7	16					

TABLE E-1 (con't)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TEMP	PH	EC		MILLIGRAMS PER LITER										MILLIGRAMS PER LITER			TDS 180C (*105C)	TH NCH
					MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER, PERCENT REACTANCE VALUES														
	TIME	LAB	COUNTY	SAMPLER	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		F	B	SIO2	SUM	
02S/04E-09A01M	66	7.8		3630	95	98	560	1	0	226	600	705	84.0		0.2	6.33	45	--	640
04/30/68	1045	5000	39	--	4.74	8.05	24.36	0.02	0.00	3.71	12.48	19.88	1.35					2254	454
					13	22	65	0	0	10	33	53	4						
02S/04E-13N01M	66	7.9		2330	142	76	220	1	0	112	318	485	29.0		0.2	1.21	32	--	667
05/03/68	1300	5000	39	--	7.08	6.25	9.57	0.02	0.00	1.84	6.61	13.68	0.47					1326	575
					31	27	42	0	0	8	29	60	2						
02S/04E-18D01M	--	8.6		3940	45	61	748	--	30	496	--	592	--		--	11.00	--	--	367
04/04/68	--	5050	60	--	2.24	5.01	32.54	--	1.00	8.13	--	16.69	--					--	0
02S/04E-25J01M	66	7.8		1860	102	44	256	3	0	178	387	300	27.0		0.1	2.70	40	--	436
04/30/68	1120	5000	39	--	5.09	3.62	11.13	0.08	0.00	2.92	8.05	8.46	0.43					1207	290
					25	18	56	0	0	15	40	43	2						
02S/05E-06F01M	64	7.6		2230	90	55	116	2	0	275	231	160	1.7		0.1	0.47	30	--	450
04/30/68	1010	5000	39	--	4.49	4.52	5.04	0.05	0.00	4.51	4.80	4.51	0.03					791	224
					32	32	36	0	0	32	35	33	0						
02S/05E-10A01M	--	8.0		2120	166	61	215	3	0	342	432	280	9.2		0.2	2.79	28	--	665
05/03/68	1330	5000	39	--	8.28	5.01	9.35	0.08	0.00	5.61	8.98	7.90	0.15					1334	384
					36	22	41	0	0	25	40	35	1						
02S/05E-10A02M	67	8.1		1930	152	58	194	3	0	350	354	256	8.2		0.1	2.38	27	--	618
05/03/68	1340	5000	39	--	7.58	4.77	8.44	0.08	0.00	5.74	7.36	7.22	0.13					1197	331
					36	23	40	0	0	28	36	35	1						
02S/05E-24C01M	--	7.8		1860	151	61	164	3	0	248	291	310	14.0		0.1	2.24	30	--	628
04/30/68	855	5000	39	--	7.53	5.01	7.13	0.08	0.00	4.07	6.05	8.74	0.22					1116	424
					38	25	36	0	0	21	32	46	1						
02S/06E-20J05M	68	8.0		853	35	14	120	2	0	156	157	76	0.1		0.1	0.52	34	--	145
04/30/68	1410	5000	39	--	1.75	1.15	5.22	0.05	0.00	2.56	3.26	2.14	0.00					481	17
					21	14	64	1	0	32	41	27	0						
03S/05E-04A01M	66	7.7		1230	101	35	100	4	0	282	96	190	17.0		0.1	1.24	30	--	396
04/30/68	820	5000	39	--	5.04	2.88	4.35	0.10	0.00	4.62	2.00	5.36	0.27					682	165
					41	23	35	1	0	38	16	44	2						
03S/05E-15K01M	--	8.0		2040	180	48	162	--	0	100	--	329	--		--	0.70	--	--	649
05/02/68	--	5050	39	--	8.98	3.94	7.05	--	0.00	1.64	--	9.28	--					--	567
03S/05E-17B01M	70	7.7		1020	84	24	94	3	0	172	208	100	15.0		0.1	1.08	40	--	308
04/30/68	730	5000	39	--	4.19	1.97	4.09	0.08	0.00	2.82	4.33	2.82	0.24					613	167
					41	19	40	1	0	28	42	28	2						
03S/05E-24N01M	--	8.2		2760	229	69	314	--	0	127	--	146	--		--	1.30	--	--	859
03/07/68	--	5050	39	--	11.43	5.67	13.66	--	0.00	2.08	--	4.12	--					--	755
03S/06E-04N01M	71	7.9		1750	126	59	156	3	0	160	271	330	11.0		0.1	0.93	25	--	557
05/02/68	1055	5000	39	--	6.29	4.85	6.78	0.08	0.00	2.62	5.64	9.30	0.18					1035	426
					35	27	38	0	0	15	32	52	1						
03S/06E-10B01M	66	7.8		4380	367	106	460	4	0	276	735	905	16.0		0.2	4.96	25	--	1350
05/01/68	1335	5000	39	--	18.31	8.71	20.01	0.10	0.00	4.53	15.29	25.52	0.26					2729	1123
					39	18	42	0	0	10	33	56	1						
03S/06E-18A01M	--	8.2		1340	105	29	136	2	0	208	318	115	22.0		0.2	1.27	22	--	382
05/03/68	1210	5000	39	--	5.24	2.38	5.91	0.05	0.00	3.41	6.61	3.24	0.35					829	211
					38	17	43	0	0	25	48	24	3						
03S/06E-28N01M	66	7.9		1020	87	26	84	2	0	160	189	117	24.0		0.2	0.71	19	--	324
05/03/68	1115	5000	39	--	4.34	2.14	3.65	0.05	0.00	2.62	3.93	3.30	0.39					608	193
					43	21	36	0	0	26	38	32	4						
04S/06E-06A01M	--	8.3		974	78	24	85	--	0	177	--	76	--		--	0.90	--	--	293
03/07/68	--	5050	39	--	3.89	1.97	3.70	--	0.00	2.90	--	2.14	--					--	148
04S/06E-08L02M	--	8.3		664	53	19	54	--	0	207	--	22	--		--	0.60	--	--	212
03/07/68	--	5050	39	--	2.64	1.56	2.35	--	0.00	3.39	--	0.62	--					--	42
04S/06E-08A01M	--	7.6		761	58	21	47	--	0	80	--	128	--		--	0.00	--	--	230
03/07/68	--	5050	39	--	2.89	1.73	2.04	--	0.00	1.31	--	3.61	--					--	164
04S/06E-15R01M	--	8.0		1520	103	43	148	2	0	148	288	215	25.0		0.3	1.50	25	--	434
05/03/68	1135	5000	50	--	5.14	3.53	6.44	0.05	0.00	2.43	5.99	6.06	0.40					897	312
					34	23	42	0	0	16	40	41	3						
04S/07E-16E01M	66	7.9		1820	96	66	190	1	0	256	264	318	27.0		0.4	2.59	26	--	511
04/30/68	1305	5000	50	--	4.79	5.42	8.26	0.02	0.00	4.20	5.49	8.97	0.43					1088	301
					26	29	45	0	0	22	29	47	2						
04S/07E-30G01M	66	8.0		1130	67	37	100	2	0	188	110	178	29.0		0.4	1.27	22	--	319
05/03/68	1030	5000	50	--	3.34	3.04	4.35	0.05	0.00	3.08	2.29	5.02	0.47					616	165
					31	28	40	0	0	28	21	46	4						
05S/07E-08K01M	--	8.3		1560	50	99	121	--	0	256	--	305	--		--	0.40	--	--	494
04/04/68	--	5050	50	--	2.49	8.14	5.26	--	0.00	4.20	--	8.60	--					--	284
05S/07E-09J01M	68	8.0		1160	54	95	44	2	0	396	48	152	39.0		0.1	0.11	29	--	525
05/03/68	955	5000	50	--	2.69	7.81	1.91	0.05	0.00	6.49	1.00	4.29	0.63					628	200
					22	63	15	0	0	52	8	34	5						
05S/07E-12N01M	67	8.1		1220	24	62	141	2	0	282	145	162	23.0		0.2	0.71	17	--	315
05/02/68	1010	5000	50	--	1.20	5.10	6.13	0.05	0.00	4.62	3.01	4.57	0.37					698	84
					10	41	49	0	0	37	24	36	3						
05S/07E-35A01M	--	7.9		922	49	33	95	1	0	226	102	120	8.1		0.3	0.30	27	--	258
05/03/68	900	5000	50	--	2.44	2.71	4.13	0.02	0.00	3.71	2.12	3.38	0.13					519	72
					26	29	44	0	0	40	23	36	1						
05S/08E-09N01M	65	8.0		2880	128	155	324	2	0	582	630	360	27.0		0.2	1.51	30	--	957
05/01/68	1125	5000	50	--	6.39	12.74	14.09	0.05	0.00	9.54	13.10	10.15	0.43					1912	479
					19	38	42	0	0	29	39	30	1						

TABLE E-1 (con't)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TEMP / TIME	PH / LAB	EC / COUNTY	SAMPLER	MILLIGRAMS PER LITER / MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER, PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER			TDS 180C (*105C) SUM	TH NCM
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
05S/08E-27M01M	--	7.7	1310		86	56	135	?	0	198	480	34	8.9	0.4	0.46	27	--	445
05/02/68	925 5000	50	--		4.29	4.60	5.87	0.05	0.00	3.25	9.98	0.96	0.14				899	282
					29	31	40	0	0	23	70	7	1					
05S/08E-30G02M	69	7.9	1790		118	76	174	1	0	452	269	228	13.0	0.2	0.65	26	--	607
05/03/68	840 5000	50	--		5.89	6.25	7.57	0.02	0.00	7.41	5.59	6.43	0.21				1101	236
					30	32	38	0	0	38	28	33	1					
06S/08E-03J01M	66	7.9	1060		73	39	96	?	0	220	300	35	30.0	0.4	0.46	29	--	342
05/01/68	1005 5000	50	--		3.64	3.20	4.17	0.05	0.00	3.61	6.24	0.99	0.48				683	161
					33	29	38	0	0	32	55	9	4					
06S/08E-05N02M	67	7.9	1520		95	62	163	?	0	230	500	82	28.0	0.5	0.60	24	--	492
05/03/68	800 5000	50	--		4.74	5.10	7.09	0.05	0.00	3.77	10.40	2.31	0.45				1045	303
					28	30	42	0	0	22	61	14	3					
06S/08E-20001M	64	7.9	1720		115	81	152	?	0	156	730	60	16.0	0.6	0.60	26	--	620
05/01/68	850 5000	50	--		5.74	6.66	6.61	0.05	0.00	2.56	15.18	1.69	0.26				1233	492
					30	35	35	0	0	13	77	9	1					
06S/08E-24M01M	64	7.9	1270		62	89	68	1	0	442	99	126	35.0	1.1	0.49	27	--	520
05/01/68	815 5000	50	--		3.09	7.31	2.96	0.02	0.00	7.25	2.06	3.55	0.56				697	157
					23	55	22	0	0	54	15	26	4					
06S/08E-34R02M	64	8.0	1060		95	51	55	?	0	358	113	69	77.0	0.2	0.28	18	--	447
05/02/68	705 5000	50	--		4.74	4.19	2.39	0.05	0.00	5.87	2.35	1.94	1.24				638	153
					42	37	21	0	0	51	21	17	11					
06S/09E-21M01M	66	8.0	1260		76	42	137	?	0	336	232	104	5.2	0.2	0.50	20	--	362
05/01/68	1550 5000	50	--		3.79	3.45	5.96	0.05	0.00	5.51	4.82	2.93	0.08				763	86
					29	26	45	0	0	41	36	22	1					
07S/08E-14E01M	66	7.6	871		78	37	54	?	0	291	113	64	24.0	0.1	0.20	18	--	346
05/01/68	1920 5000	24	--		3.89	3.04	2.35	0.05	0.00	4.77	2.35	1.80	0.39				515	107
					42	33	25	0	0	51	25	19	4					
07S/08E-17H01M	--	8.2	849		66	44	47	--	0	337	--	37	--	--	0.30	--	--	348
03/07/68	-- 5050	50	--		3.29	3.62	2.04	--	0.00	5.53	--	1.04	--				--	71
07S/08E-19K01M	--	8.3	784		62	34	52	--	0	298	--	24	--	--	0.30	--	--	297
03/07/68	-- 5050	50	--		3.09	2.79	2.26	--	0.00	4.89	--	0.68	--				--	52
07S/08E-20B01M	--	8.2	961		76	47	57	--	0	359	--	37	--	--	0.40	--	--	383
03/07/68	-- 5050	50	--		3.79	3.86	2.48	--	0.00	5.89	--	1.04	--				--	88
07S/08E-36A01M	64	7.5	1590		135	57	135	?	0	416	201	187	53.0	0.2	0.58	25	--	572
05/02/68	1210 5000	24	--		6.74	4.68	5.87	0.05	0.00	6.82	4.18	5.27	0.85				974	231
					39	27	34	0	0	40	24	31	5					
08S/08E-17K01M	--	8.3	869		58	36	70	--	0	248	--	36	--	--	0.50	--	--	294
03/07/68	-- 5050	50	--		2.89	2.96	3.04	--	0.00	4.07	--	1.01	--				--	90
08S/08E-22N01M	--	8.0	1350		76	52	139	--	0	204	--	71	--	--	0.80	--	--	403
03/07/68	-- 5050	24	--		3.79	4.27	6.05	--	0.00	3.34	--	2.00	--				--	236
08S/08E-22Q01M	--	8.3	950		62	34	83	--	0	221	--	71	--	--	0.40	--	--	294
03/07/68	-- 5050	24	--		3.09	2.79	3.61	--	0.00	3.62	--	2.00	--				--	113
08S/08E-27B01M	--	8.1	1280		78	45	132	--	0	227	--	87	--	--	0.80	--	--	379
03/07/68	-- 5050	24	--		3.89	3.70	5.74	--	0.00	3.72	--	2.45	--				--	193
08S/09E-03M01M	75	7.6	2040		81	39	284	3	0	150	267	425	1.1	0.1	1.80	27	--	362
05/02/68	115 5000	24	--		4.04	3.20	12.35	0.08	0.00	2.46	5.55	11.98	0.02				1174	239
					20	16	63	0	0	12	28	60	0					
08S/09E-08H01M	69	7.7	907		66	29	89	?	0	282	135	64	19.0	0.3	0.39	22	--	284
05/02/68	1130 5000	24	--		3.29	2.38	3.87	0.05	0.00	4.62	2.81	1.80	0.30				543	53
					34	25	40	0	0	48	29	19	3					
08S/09E-08H02M	69	8.0	980		70	27	106	?	0	250	166	98	14.0	3.6	0.34	23	--	286
05/02/68	1230 5000	24	--		3.49	2.22	4.61	0.05	0.00	4.10	3.45	2.76	0.22				606	81
					34	21	44	0	0	39	33	26	2					
08S/09E-21A01M	68	7.6	3590		163	140	497	1	0	612	805	490	28.0	0.8	2.63	28	--	982
05/01/68	1830 5000	24	--		8.13	11.51	21.62	0.02	0.00	10.04	16.74	13.82	0.45				2424	480
					20	28	52	0	0	24	41	34	1					
08S/09E-34K01M	78	7.4	3090		105	101	402	?	0	292	325	688	8.5	0.3	2.03	33	--	678
05/01/68	1800 5000	24	--		5.24	8.30	17.49	0.05	0.00	4.79	6.76	19.40	0.14				1775	438
					17	27	56	0	0	15	22	62	0					
09S/08E-12F01M	--	8.2	677		38	21	64	--	0	142	--	78	--	--	0.40	--	--	181
03/21/68	-- 5050	24	--		1.90	1.73	2.78	--	0.00	2.33	--	2.20	--				--	64
09S/08E-36B01M	--	8.0	925		27	16	113	--	0	197	--	138	--	--	1.90	--	--	192
03/07/68	-- 5050	24	--		1.35	1.31	4.91	--	0.00	3.23	--	3.89	--				--	30
09S/09E-13F01M	74	7.5	1340		41	28	201	2	0	276	123	216	4.6	0.2	1.62	31	--	218
05/02/68	1045 5000	24	--		2.04	2.30	8.74	0.05	0.00	4.53	2.56	6.09	0.07				751	0
					16	17	66	0	0	34	19	46	1					
09S/09E-26B02M	70	7.4	1040		48	29	128	2	0	226	73	178	4.1	0.3	0.77	26	--	240
05/01/68	1515 5000	24	--		2.39	2.38	5.57	0.05	0.00	3.71	1.52	5.02	0.07				573	54
					23	23	53	0	0	36	15	49	1					
09S/09E-27E01M	63	7.5	960		66	29	92	?	0	282	77	125	1.0	0.3	0.47	19	--	284
05/02/68	930 5000	24	--		3.29	2.38	4.00	0.05	0.00	4.62	1.60	3.52	0.02				531	53
					34	24	41	0	0	47	16	36	0					
09S/10E-07K01M	77	7.5	1760		72	37	260	3	0	159	515	176	0.9	0.1	2.70	28	--	332
05/01/68	1650 5000	24	--		3.59	3.04	11.31	0.08	0.00	2.61	10.71	4.96	0.01				1142	201
					20	17	63	0	0	14	58	27	0					
09S/10E-34R01M	64	7.8	1740		60	61	240	1	0	516	278	170	6.3	0.1	1.76	57	--	400
05/01/68	1500 5000	24	--		2.99	5.01	10.44	0.02	0.00	8.46	5.78	4.79	0.10				1070	0
					16	27	56	0	0	44	30	25	0					

TABLE E-1 (con't)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	TEMP LAB	PH COUNTY	EC SAMPLER	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCM
					MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
					MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER, PERCENT REACTANCE VALUES													
09S/12E-21R01M		64	7.4	815	56	20	92	2	0	210	71	128	1.0	0.2	0.00	31	--	222
04/30/68	1300	5000	24	--	2.79	1.64	4.00	0.05	0.00	3.44	1.48	3.61	0.02				473	50
					33	19	47	1	0	40	17	42	0					
09S/12E-32N01M		65	7.5	1220	45	17	185	2	0	176	101	240	1.0	0.2	0.18	27	--	182
04/30/68	1400	5000	24	--	2.24	1.40	8.05	0.05	0.00	2.89	2.10	6.77	0.02				678	38
					19	12	68	0	0	24	18	57	0					
10S/09E-05C01M		68	7.6	1260	57	35	160	2	0	312	82	208	9.5	0.4	1.06	20	--	286
05/02/68	830	5000	24	--	2.84	2.88	6.96	0.05	0.00	5.12	1.70	5.86	0.15				707	30
					22	23	55	0	0	40	13	46	1					
10S/11E-18R02M		68	7.5	4720	187	173	700	4	0	302	1430	670	2.5	0.1	3.80	37	--	1178
05/01/68	1400	5000	24	--	9.33	14.22	30.45	0.10	0.00	4.95	29.74	18.89	0.04				3315	930
					17	26	56	0	0	9	55	35	0					
10S/11E-19D02M		--	7.8	1440	82	63	150	1	0	452	198	145	8.2	0.1	1.69	57	--	464
05/01/68	1420	5000	24	--	4.09	5.18	6.52	0.02	0.00	7.41	4.12	4.09	0.13				869	93
					26	33	41	0	0	47	26	26	1					
10S/11E-26D01M		--	8.0	2130	100	65	300	3	0	407	455	248	1.0	0.7	2.14	23	--	517
04/30/68	1700	5000	24	--	4.99	5.34	13.05	0.08	0.00	6.67	9.46	6.99	0.02				1372	183
					21	23	56	0	0	29	41	30	0					
10S/12E-06F01M		65	7.6	830	31	12	123	1	0	177	73	133	0.8	0.3	0.30	24	--	127
04/30/68	1430	5000	24	--	1.55	0.99	5.35	0.02	0.00	2.90	1.52	3.75	0.01				461	0
					20	12	68	0	0	35	18	46	0					
10S/12E-13L01M		64	7.7	694	30	10	101	1	0	165	59	102	0.9	0.3	0.00	34	--	116
04/30/68	1045	5000	24	--	1.50	0.82	4.39	0.02	0.00	2.71	1.23	2.88	0.01				385	0
					22	12	65	0	0	40	18	42	0					
10S/13E-19F01M		68	7.6	304	14	63	44	1	0	136	18	22	0.9	0.2	0.00	25	--	61
04/30/68	1000	5000	24	--	0.70	5.18	1.91	0.02	0.00	2.23	0.37	0.62	0.01				230	0
					9	66	24	0	0	69	12	19	0					
11S/10E-02P01M		--	7.7	1150	57	30	148	1	0	270	202	108	12.0	0.1	1.25	27	--	266
04/30/68	1910	5000	24	--	2.84	2.47	6.44	0.02	0.00	4.43	4.20	3.04	0.19				691	44
					24	21	55	0	0	37	35	26	2					
11S/10E-13M01M		70	7.6	1650	76	42	236	1	0	534	203	160	17.0	0.1	2.17	26	--	362
05/01/68	1315	5000	24	--	3.79	3.45	10.26	0.02	0.00	8.76	4.22	4.51	0.27				997	0
					22	20	58	0	0	49	24	25	1					
11S/10E-22F01M		68	7.6	3700	143	136	490	3	0	180	830	640	73.0	0.2	2.26	16	--	916
05/01/68	1130	5000	24	--	7.13	11.18	21.31	0.08	0.00	2.95	17.26	18.05	1.17				2404	768
					18	28	54	0	0	7	44	46	3					
11S/10E-22H01M		68	7.7	2720	113	91	350	2	0	262	590	410	46.0	0.2	2.08	18	--	656
05/01/68	1215	5000	24	--	5.64	7.48	15.22	0.05	0.00	4.30	12.27	11.56	0.74				1731	441
					20	26	54	0	0	15	42	40	3					
11S/11E-05D01M		68	7.7	921	29	26	128	2	0	234	143	84	10.0	0.3	0.99	35	--	180
05/01/68	1130	5000	24	--	1.45	2.14	5.57	0.05	0.00	3.84	2.97	2.37	0.16				537	0
					16	23	60	1	0	41	32	25	2					
11S/11E-17M01M		69	7.5	1040	40	36	122	1	0	186	177	130	1.3	1.1	0.69	18	--	248
05/01/68	1000	5000	24	--	1.99	2.96	5.31	0.02	0.00	3.05	3.68	3.67	0.02				599	95
					19	29	52	0	0	29	35	35	0					
11S/12E-19R01M		69	7.6	2770	179	71	356	4	0	190	835	350	6.7	0.2	3.05	29	--	738
04/30/68	1650	5000	24	--	8.93	5.84	15.48	0.10	0.00	3.11	17.37	9.87	0.11				1895	582
					29	19	51	0	0	10	57	32	0					
12S/11E-13D02M		79	7.5	1790	50	29	300	3	0	180	555	142	1.4	0.3	2.58	31	--	244
05/01/68	900	5000	24	--	2.49	2.38	13.05	0.08	0.00	2.95	11.54	4.00	0.02				1169	96
					14	13	72	0	0	16	62	22	0					
13S/22E-23N01M		58	8.1	860	--	--	27	--	0	407	--	14	64.0	--	--	--	--	404
09/25/68	800	5050	10	--	--	--	1.17	--	0.00	6.67	--	0.39	1.03				--	70
14S/20E-24D01M		--	8.2	333	24	16	19	4	0	164	2	11	16.0	--	0.00	--	220	126
06/05/68	--	5061	10	--	1.20	1.31	0.83	0.10	0.00	2.69	0.04	0.31	0.26				173	0
					35	38	24	3	0	81	1	9	8					
14S/23E-36R01M		66	7.4	460	--	--	19	--	0	180	--	29	9.5	--	--	--	--	181
09/25/68	900	5050	10	--	--	--	0.83	--	0.00	2.95	--	0.82	0.15				--	33
15S/21E-15F01M		72	7.7	382	--	--	28	--	0	139	--	30	11.0	--	--	--	--	114
09/25/68	930	5050	10	--	--	--	1.22	--	0.00	2.28	--	0.85	0.18				--	0
16S/18E-22J01M		73	7.9	292	--	--	31	--	0	87	--	32	1.8	--	--	--	--	69
09/25/68	1000	5050	10	--	--	--	1.35	--	0.00	1.43	--	0.90	0.03				--	0
16S/19E-07E01M		72	8.0	578	--	--	34	--	0	100	--	81	19.0	--	--	--	--	176
09/25/68	940	5050	10	--	--	--	1.48	--	0.00	1.64	--	2.28	0.30				--	94
16S/20E-18G01M		72	8.4	140	--	--	29	--	6	61	--	2	1.3	--	--	--	--	9
09/25/68	745	5050	10	--	--	--	1.26	--	0.20	1	--	0.06	0.02				--	0
16S/21E-01N01M		78	7.6	243	--	--	15	--	0	111	--	8	14.0	--	--	--	--	89
09/25/68	945	5050	10	--	--	--	0.65	--	0.00	1.82	--	0.22	0.22				--	0
16S/23E-05C01M		77	7.6	554	--	--	49	--	0	241	--	26	21.0	--	--	--	--	169
09/25/68	1015	5050	54	--	--	--	2.13	--	0.00	3.95	--	0.73	0.34				--	0
16S/24E-03J01M		68	7.5	863	--	--	48	--	0	352	--	53	36.0	--	--	--	--	331
09/25/68	1045	5050	54	--	--	--	2.09	--	0.00	5.77	--	1.49	0.58				--	42

TABLE E-1 (con't)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	TEMP LAB	PH COUNTY	EC SAMPLER	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER, PERCENT REACTANCE VALUES: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
17S/17E-21R01M		R4	8.0	1070	--	--	187	--	0	131	--	61	1.2	--	--	--	--	94
09/25/68	1215	5050	10	--	--	--	8.13	--	0.00	2.15	--	1.72	0.02				--	0
17S/18E-07N01M		77	8.4	1210	--	--	199	--	3	390	--	74	1.0	--	--	--	--	178
09/25/68	1105	5050	10	--	--	--	8.66	--	0.10	6.39	--	2.09	0.02				--	0
17S/18E-09C01M		74	8.4	898	--	--	194	--	1	370	--	95	1.1	--	--	--	--	24
09/25/68	1025	5050	10	--	--	--	8.44	--	0.03	6.07	--	2.68	0.02				--	0
17S/21E-24E01M		63	8.4	632	--	--	58	--	1	224	--	20	82.0	--	--	--	--	185
09/26/68	700	5050	10	--	--	--	2.52	--	0.03	3.67	--	0.56	1.32				--	0
17S/22E-10L01M		75	8.4	198	--	--	18	--	1	106	--	4	2.9	--	--	--	--	66
09/25/68	1630	5050	16	--	--	--	0.78	--	0.03	1.74	--	0.11	0.05				--	0
17S/24E-15A02M		70	7.9	571	--	--	47	--	0	239	--	40	12.0	--	--	--	--	176
09/25/68	1145	5050	54	--	--	--	2.04	--	0.00	3.92	--	1.13	0.19				--	0
17S/25E-34P01M		72	7.7	734	--	--	42	--	0	311	--	49	20.0	--	--	--	--	278
09/25/68	1210	5050	54	--	--	--	1.83	--	0.00	5.10	--	1.38	0.32				--	23
18S/18E-09N01M		80	8.4	1120	--	--	170	--	2	180	--	44	1.5	--	--	--	--	174
09/25/68	1255	5050	10	--	--	--	7.39	--	0.07	2.95	--	1.24	0.02				--	23
18S/21E-02P01M		70	8.4	350	--	--	10	--	1	136	--	13	16.0	--	--	--	--	144
09/26/68	730	5050	16	--	--	--	0.43	--	0.03	2.23	--	0.37	0.26				--	31
18S/26E-04Q01M		67	8.4	684	--	--	33	--	1	262	--	41	42.0	--	--	--	--	268
09/25/68	1245	5050	54	--	--	--	1.43	--	0.03	4.30	--	1.16	0.68				--	51
19S/16E-16M01M		92	8.0	2170	--	--	380	--	0	141	--	150	1.1	--	--	--	--	233
09/26/68	835	5050	10	--	--	--	16.53	--	0.00	2.31	--	4.23	0.02				--	117
19S/19E-31D01M		89	7.9	1690	--	--	336	--	0	291	--	303	0.2	--	--	--	--	77
09/25/68	1420	5050	16	--	--	--	14.61	--	0.00	4.77	--	8.54	0.00				--	0
19S/25E-11J01M		--	8.0	133	13	4	7	1	0	67	4	2	0.4	0.1	0.00	--	83	50
05/03/68	--	5050	54	--	0.65	0.33	0.30	0.02	0.00	1.10	0.08	0.06	0.01				65	0
					50	25	23	2	0	88	7	4	0					
20S/18E-24Q01M		91	7.8	2200	--	--	420	--	0	330	--	490	1.5	--	--	--	--	92
09/25/68	1515	5050	10	--	--	--	18.27	--	0.00	5.41	--	13.82	0.02				--	0
20S/19E-06Q01M		92	8.2	1440	--	--	297	--	0	335	--	248	1.4	--	--	--	--	42
09/25/68	1440	5050	16	--	--	--	12.92	--	0.00	5.49	--	6.99	0.02				--	0
20S/19E-19D01M		89	7.9	1440	--	--	278	--	0	222	--	218	0.2	--	--	--	--	68
09/25/68	1510	5050	16	--	--	--	12.09	--	0.00	3.64	--	6.15	0.00				--	0
20S/21E-12A01M		71	8.1	1020	--	--	194	--	0	251	--	157	0.2	--	--	--	--	59
09/26/68	745	5050	16	--	--	--	8.44	--	0.00	4.12	--	4.43	0.00				--	0
20S/22E-34J01M		69	7.4	319	--	--	50	--	0	72	--	27	0.2	--	--	--	--	41
09/26/68	820	5050	16	--	--	--	2.17	--	0.00	1.18	--	0.76	0.00				--	0
20S/29E-14R01M		61	6.6	650	66	15	26	5	--	--	13	--	16.0	--	0.10	--	--	228
02/09/68	1445	5050	54	--	3.29	1.23	1.13	0.13	--	--	0.27	--	0.26				--	--
20S/29E-23P01M		63	6.0	1500	116	44	130	10	--	--	30	--	0.0	--	1.20	--	--	469
02/09/68	1430	5050	54	--	5.79	3.62	5.65	0.25	--	--	0.62	--	0.00				--	--
20S/29E-26B01M		69	7.1	1360	130	48	74	7	0	711	4	89	1.1	--	0.90	--	800	522
02/09/68	1130	5050	54	--	6.49	3.94	3.22	0.18	0.00	11.66	0.08	2.51	0.02				702	0
					47	28	23	1	0	82	1	18	0					
21S/16E-08D01M		74	8.0	1720	--	--	218	--	0	222	--	75	8.5	--	--	--	--	450
09/26/68	1030	5050	10	--	--	--	9.48	--	0.00	3.64	--	2.11	0.14				--	268
21S/21E-07J01M		82	7.9	972	--	--	154	--	0	255	--	167	30.0	--	--	--	--	88
09/26/68	930	5050	16	--	--	--	6.70	--	0.00	4.18	--	4.71	0.48				--	0
21S/22E-13Q01M		69	7.7	406	--	--	56	--	0	133	--	32	6.8	--	--	--	--	70
09/26/68	900	5050	16	--	--	--	2.43	--	0.00	2.18	--	0.90	0.11				--	0
21S/23E-08C01M		67	7.9	254	--	--	47	--	0	139	--	5	2.0	--	--	--	--	38
09/26/68	845	5050	54	--	--	--	2.04	--	0.00	2.28	--	0.14	0.03				--	0
21S/25E-19K02M		71	8.4	322	--	--	45	--	1	150	--	12	10.0	--	--	--	--	68
09/25/68	1530	5050	54	--	--	--	1.96	--	0.03	2.46	--	0.34	0.16				--	0
22S/19E-1RN03M		--	7.2	903	38	--	162	--	0	113	--	25	--	--	--	--	--	62
04/09/68	1400	5050	16	--	1.90	--	7.05	--	0.00	1.85	--	0.70	--				--	0
22S/19E-18P02M		--	7.7	1130	37	7	196	--	0	123	--	44	--	--	--	--	--	123
04/09/68	1400	5050	16	--	1.85	0.57	8.52	--	0.00	2.02	--	1.24	--				--	22
22S/21E-12M01M		88	7.5	977	--	--	155	--	0	259	--	168	1.0	--	--	--	--	100
09/26/68	1000	5050	16	--	--	--	6.74	--	0.00	4.25	--	4.74	0.02				--	0
22S/23E-06A01M		73	8.3	1680	--	--	351	--	0	793	--	128	1.5	--	--	--	--	115
09/26/68	1400	5050	54	--	--	--	15.27	--	0.00	13.00	--	3.61	0.02				--	0
22S/24E-11M01M		72	8.4	342	--	--	28	--	1	147	--	29	6.2	--	--	--	--	111
09/25/68	1500	5050	54	--	--	--	1.22	--	0.03	2.41	--	0.82	0.10				--	0
22S/25E-17M02M		71	8.4	316	--	--	31	--	2	149	--	13	10.0	--	--	--	--	94
09/25/68	1430	5050	54	--	--	--	1.35	--	0.07	2.44	--	0.37	0.16				--	0
22S/27E-12J01M		58	8.0	1180	--	--	91	--	0	318	--	74	148.0	--	--	--	--	392
09/25/68	1400	5050	54	--	--	--	3.96	--	0.00	5.21	--	2.09	2.38				--	131

TABLE E-1 (con't)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	TEMP	LAB	PH	COUNTY	EC	SAMPLER	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH MCM
								MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
								MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER, PERCENT REACTANCE VALUES													
23S/19E-11D01M	--			8.5		13300		28	76	2960	--	38	948	--	3800	--	--	--	--	--	383
04/09/68	1500	5050		16		--		1.40	6.25	128.76	--	1.26	15.55	--	107.16	--				--	0
23S/19E-26J01M	--			8.2		8180		77	164	1410	--	0	344	--	2300	--	--	--	--	--	868
04/10/68	930	5050		16		--		3.84	13.48	61.33	--	0.00	5.64	--	64.86	--				--	586
24S/19E-17P02M	--			8.2		5430		256	156	766	--	0	261	--	270	--	--	--	--	--	1570
04/10/68	1000	5050		16		--		12.77	12.82	33.32	--	0.00	4.28	--	7.61	--				--	1356
24S/20E-35E01M	--			8.2		9060		239	248	1700	--	0	246	--	1090	--	--	--	--	--	1620
04/10/68	--	5050		16		--		11.93	20.38	73.95	--	0.00	4.03	--	30.74	--				--	1418
24S/23E-04C01M	71			8.0		379		--	--	68	--	0	194	--	9	9.8	--	--	--	--	38
09/26/68	1340	5050		54		--		--	--	2.96	--	0.00	3.18	--	0.25	0.16				--	0
24S/26E-35A01M	--			8.3		445		6	2	80	1	0	99	65	29	13.0	0.3	0.10	--	256	23
05/03/68	--	5050		54		--		0.30	0.16	3.48	0.02	0.00	1.62	1.35	0.82	0.21				245	0
								7	4	88	1	0	41	34	20	5					
24S/27E-31E01M	--			8.0		443		12	2	74	2	0	113	53	35	2.2	0.4	0.20	--	255	37
05/03/68	--	5050		54		--		0.60	0.16	3.22	0.05	0.00	1.85	1.10	0.99	0.03				236	0
								15	4	80	1	0	47	28	25	1					
24S/27E-33R01M	--			8.2		483		27	2	63	4	0	115	66	37	2.0	0.2	0.10	--	296	77
05/03/68	--	5050		54		--		1.35	0.16	2.74	0.10	0.00	1.89	1.37	1.04	0.03				258	0
								31	4	63	2	0	43	32	24	1					
25S/20E-04C01M	75			8.1		4530		107	165	714	--	0	143	--	455	--	--	--	--	--	947
02/07/68	--	5050		15		--		5.34	13.56	31.06	--	0.00	2.34	--	12.83	--				--	830
25S/20E-16F02M	76			8.2		3750		62	112	528	--	0	166	--	640	--	--	--	--	--	616
05/01/68	1715	5050		15		--		3.09	9.21	22.97	--	0.00	2.72	--	18.05	--				--	480
25S/20E-35R01M	--			7.6		5410		134	77	928	--	0	283	--	1260	--	--	--	--	--	658
04/10/68	1100	5050		15		--		6.69	6.33	40.37	--	0.00	4.64	--	35.53	--				--	426
25S/22E-01N01M	71			8.4		253		--	--	46	--	2	79	--	14	1.0	--	--	--	--	14
09/25/68	1130	5050		15		--		--	--	2	--	0.07	1.29	--	0.39	0.02				--	0
25S/22E-28R01M	71			8.4		478		--	--	67	--	1	61	--	68	0.1	--	--	--	--	68
09/25/68	1045	5050		15		--		--	--	2.91	--	0.03	1	--	1.92	0.00				--	16
25S/26E-01K01M	--			8.4		652		45	4	78	5	2	145	74	48	39.0	0.1	0.10	--	376	130
05/03/68	--	5050		15		--		2.24	0.33	3.39	0.13	0.07	2.38	1.54	1.35	0.63				366	8
								37	5	56	2	1	40	26	23	10					
25S/26E-01R01M	--			8.3		404		20	3	54	4	0	100	32	28	30.0	0.2	0.00	--	229	62
05/03/68	--	5050		15		--		1.00	0.25	2.35	0.10	0.00	1.64	0.66	0.79	0.48				220	0
								27	7	63	3	0	46	19	22	13					
25S/27E-08H01M	--			8.4		529		8	1	98	3	2	178	47	33	1.9	0.8	0.40	--	330	26
05/03/68	--	5050		15		--		0.40	0.08	4.26	0.08	0.07	2.92	0.98	0.93	0.03				282	0
								8	2	88	2	1	59	20	19	1					
25S/27E-08H03M	--			8.1		713		46	7	84	10	0	161	155	28	1.4	0.2	0.10	--	462	143
05/03/68	--	5050		15		--		2.29	0.57	3.65	0.25	0.00	2.64	3.22	0.79	0.02				411	11
								34	8	54	4	0	39	48	12	0					
25S/27E-11Q01M	--			8.3		500		31	5	61	3	0	125	82	30	0.6	0.2	0.00	--	300	96
05/03/68	--	5050		15		--		1.55	0.41	2.65	0.08	0.00	2.05	1.70	0.85	0.01				274	0
								33	9	57	2	0	44	37	18	0					
25S/27E-15P01M	--			8.0		547		34	4	65	6	0	135	60	52	0.4	0.2	0.10	--	328	101
05/03/68	--	5050		15		--		1.70	0.33	2.83	0.15	0.00	2.21	1.25	1.47	0.01				288	0
								34	7	56	3	0	45	25	30	0					
25S/27E-19K01M	--			8.2		631		24	5	92	4	0	93	114	56	5.7	0.2	0.10	--	360	79
05/03/68	--	5050		15		--		1.20	0.41	4.00	0.10	0.00	1.52	2.37	1.58	0.09				347	3
								21	7	70	2	0	27	43	28	2					
25S/27E-24M01M	--			8.4		501		34	4	59	5	1	177	53	23	0.6	0.2	0.10	--	296	101
05/03/68	--	5050		15		--		1.70	0.33	2.57	0.13	0.03	2.90	1.10	0.65	0.01				267	0
								36	7	54	3	1	62	23	14	0					
25S/27E-26G01M	--			8.4		800		65	15	69	10	2	133	173	56	8.0	0.2	0.10	--	509	225
05/03/68	--	5050		15		--		3.24	1.23	3.00	0.25	0.07	2.18	3.60	1.58	0.13				464	112
								42	16	39	3	1	29	48	21	2					
25S/27E-27G01M	--			8.4		533		28	4	70	5	2	131	58	48	5.0	0.3	0.10	--	349	86
05/03/68	--	5050		15		--		1.40	0.33	3.04	0.13	0.07	2.15	1.21	1.35	0.08				285	0
								28	7	62	3	1	44	25	28	2					
26S/21E-22D01M	--			7.9		5680		316	112	832	--	0	84	--	850	--	--	--	--	--	1250
04/10/68	--	5050		15		--		15.77	9.21	36.19	--	0.00	1.38	--	23.97	--				--	1181
26S/21E-27N02M	76			8.0		6480		364	170	936	--	0	137	--	1240	--	--	--	--	--	1610
05/01/68	1800	5050		15		--		18.16	13.97	40.71	--	0.00	2.25	--	34.97	--				--	1498
26S/23E-13H01M	78			8.7		214		--	--	36	--	13	30	--	20	3.3	--	--	--	--	17
09/25/68	746	5050		15		--		--	--	1.56	--	0.43	0.49	--	0.56	0.05				--	0
26S/23E-20F01M	75			8.6		307		--	--	48	--	9	46	--	41	1.1	--	--	--	--	36
09/26/68	927	5050		15		--		--	--	2.09	--	0.30	0.75	--	1.16	0.02				--	0
26S/23E-26A01M	76			8.6		162		--	--	31	--	9	57	--	6	3.2	--	--	--	--	14
09/25/68	843	5050		15		--		--	--	1.35	--	0.30	0.93	--	0.17	0.05				--	0
27S/23E-09C01M	78			8.7		467		--	--	84	--	11	83	--	28	2.2	--	--	--	--	29
09/24/68	1242	5050		15		--		--	--	3.65	--	0.37	1.36	--	0.79	0.03				--	0
27S/24E-24P02M	77			8.0		3480		146	14	571	--	0	146	--	292	--	--	--	--	--	423
05/01/68	1300	5050		15		--		7.28	1.15	24.84	--	0.00	2.39	--	8.23	--				--	303
28S/25E-13C01M	79			7.7		384		--	--	52	--	0	98	--	19	8.3	--	--	--	--	57
09/27/68	1340	5050		15		--		--	--	2.26	--	0.00	1.61	--	0.53	0.13				--	0

TABLE E-1 (con't)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	TEMP LAB	PH COUNTY	EC SAMPLER	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
					MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER, PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
29S/23E-02J01M		80	7.6	3940	--	--	581	--	0	65	--	1190	1.2	--	--	--	--	487
09/22/68	955	5050	15	--	--	--	25.27	--	0.00	1.06	--	33.56	0.02				--	434
29S/23E-17P01M		68	7.9	4220	250	39	620	--	0	88	--	829	--	--	--	--	--	787
02/05/68	840	5050	15	--	12.47	3.20	26.97	--	0.00	1.44	--	23.38	--				--	715
29S/24E-35E01M		71	7.7	308	--	--	45	--	0	50	--	40	1.5	--	--	--	--	43
09/02/68	840	5050	15	--	--	--	1.96	--	0.00	0.82	--	1.13	0.02				--	2
29S/25E-15N01M		72	7.8	441	--	--	30	--	0	80	--	40	4.9	--	--	--	--	102
09/23/68	1255	5050	15	--	--	--	1.30	--	0.00	1.31	--	1.13	0.08				--	36
29S/26E-11L01M		79	7.9	527	--	--	66	--	0	123	--	25	12.0	--	--	--	--	104
09/27/68	1330	5050	15	--	--	--	2.87	--	0.00	2.02	--	0.70	0.19				--	3
30S/23E-01C01M		70	8.3	674	10	1	112	--	0	29	--	153	--	--	--	--	--	28
02/05/68	900	5050	15	--	0.50	0.08	4.87	--	0.00	0.47	--	4.31	--				--	4
30S/24E-08P01M	--		8.1	2220	89	12	344	--	0	122	--	451	--	--	--	--	--	271
03/29/68	--	5050	15	--	4.44	0.99	14.96	--	0.00	3	--	12.72	--				--	171
30S/27E-19A01M		74	8.0	429	--	--	28	--	0	172	--	17	9.2	--	--	--	--	152
09/27/68	1305	5050	15	--	--	--	1.22	--	0.00	2.82	--	0.48	0.15				--	11
30S/27E-23C01M		66	8.1	398	--	--	25	--	0	161	--	15	6.8	--	--	--	--	138
09/19/68	1225	5050	15	--	--	--	1.09	--	0.00	2.64	--	0.42	0.11				--	6
30S/28E-18H01M		66	7.8	669	--	--	43	--	0	274	--	23	28.0	--	--	--	--	243
09/19/68	1310	5050	15	--	--	--	1.87	--	0.00	4.49	--	0.65	0.45				--	18
31S/24E-13P04M		72	8.0	13500	526	179	2660	--	0	136	--	2210	--	--	--	--	--	2050
04/17/68	1100	5050	15	--	26.25	14.71	115.71	--	0.00	2.23	--	62.32	--				--	1938
31S/24E-24N03M		70	7.6	43200	825	1400	8110	--	0	975	--	12900	--	--	--	--	--	7840
04/17/68	1215	5050	15	--	41.17	115.08	352.78	--	0.00	15.99	--	363.78	--				--	7040
31S/24E-24P02M		68	8.0	11300	411	404	1960	--	0	787	--	1500	--	--	--	--	--	2690
04/17/68	1300	5050	15	--	20.51	33.21	85.26	--	0.00	12.91	--	42.30	--				--	2044
31S/24E-25E03M	--		7.8	30200	414	793	7690	--	0	350	--	3820	--	--	--	--	--	4300
04/17/68	1530	5050	15	--	20.66	65.18	334.51	--	0.00	5.74	--	107.72	--				--	4013
31S/24E-25E04M	--		7.7	33100	1320	1110	5410	--	0	565	--	11700	--	--	--	--	--	7860
04/17/68	1530	5050	15	--	65.87	91.24	235.33	--	0.00	9.26	--	329.94	--				--	7396
31S/24E-26L03M		74	8.2	6280	552	122	861	--	0	108	--	689	--	--	--	--	--	1880
04/18/68	1145	5050	15	--	27.54	10.03	37.45	--	0.00	1.77	--	19.43	--				--	1791
31S/24E-36D06M		70	7.8	19000	715	710	3020	--	0	724	--	5090	--	--	--	--	--	4710
04/17/68	1640	5050	15	--	35.68	58.36	131.37	--	0.00	11.87	--	143.54	--				--	4116
31S/24E-36D07M		70	7.9	17000	543	647	2930	--	0	989	--	3800	--	--	--	--	--	4020
04/17/68	1640	5050	15	--	27.09	53.18	127.45	--	0.00	16.22	--	107.16	--				--	3208
31S/24E-36D08M		68	7.5	31300	843	1070	5760	--	0	1050	--	9980	--	--	--	--	--	6510
04/17/68	1640	5050	15	--	42.06	87.95	250.56	--	0.00	17.22	--	281.43	--				--	5648
31S/24E-36M04M		71	8.0	8490	676	168	1060	--	0	112	--	1810	--	--	--	--	--	2380
04/18/68	1045	5050	15	--	33.73	13.81	46.11	--	0.00	1.84	--	51.04	--				--	2288
31S/25E-03N01M		78	8.2	481	6	2	94	--	0	108	--	26	--	--	--	--	--	20
05/29/68	--	5050	15	--	0.30	0.16	4.09	--	0.00	1.77	--	0.73	--				--	0
31S/25E-25H01M		74	8.4	482	--	--	77	--	1	107	--	7	0.7	--	--	--	--	56
09/16/68	1330	5050	15	--	--	--	3.35	--	0.03	1.75	--	0.20	0.01				--	0
31S/28E-26A01M		81	7.8	277	--	--	50	--	0	92	--	12	0.2	--	--	--	--	26
09/27/68	1115	5050	15	--	--	--	2.17	--	0.00	1.51	--	0.34	0.00				--	0
31S/29E-23R02M		80	7.9	382	--	--	44	--	0	134	--	20	22.0	--	--	--	--	88
09/27/68	1210	5050	15	--	--	--	1.91	--	0.00	2.20	--	0.56	0.35				--	0
32S/27E-06K01M		77	7.9	444	--	--	76	--	0	124	--	11	0.3	--	--	--	--	56
09/27/68	1020	5050	15	--	--	--	3.30	--	0.00	2.03	--	0.31	0.00				--	0

TABLE E-1 (con't)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	TEMP LAB	PH COUNTY	EC SAMPLER	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
					MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER, PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
11N/19W-21F01S		76	8.0	651	--	--	39	--	0	242	--	23	7.6	--	--	--	--	235
09/27/68	815	5050	15	--	--	--	1.70	--	0.00	3.97	--	0.65	0.12				--	36
11N/20W-10C01S		81	7.9	839	--	--	86	--	0	149	--	26	3.2	--	--	--	--	224
09/27/68	850	5050	15	--	--	--	3.74	--	0.00	2.44	--	0.73	0.05				--	102
11N/20W-13M01S		--	8.2	953	67	21	99	7	0	166	276	27	4.5	0.7	0.50	--	619	254
08/28/68	--	5050	15	--	3.34	1.73	4.31	0.18	0.00	2.72	5.74	0.76	0.07				583	118
					35	18	45	2	0	29	62	8	1					
11N/20W-24E01S		--	8.2	1510	104	43	154	15	0	217	516	39	28.0	0.7	0.90	--	1050	436
08/28/68	--	5050	15	--	5.19	3.53	6.70	0.38	0.00	3.56	10.73	1.10	0.45				1006	258
					33	22	42	2	0	22	68	7	3					
11N/21W-04F01S		82	7.8	956	--	--	107	--	0	210	--	14	0.3	--	--	--	--	259
09/27/68	910	5050	15	--	--	--	4.65	--	0.00	3.44	--	0.39	0.00				--	87
11N/22W-04E01S		81	7.9	2160	--	--	189	--	0	128	--	70	9.0	--	--	--	--	802
09/16/68	1235	5050	15	--	--	--	8.22	--	0.00	2.10	--	1.97	0.14				--	697

TABLE E-2

This table presents trace mineral analyses performed by Department of Water Resources Laboratory. The following are definitions of chemical symbols used in this table:

Chemical Symbols

AL	Aluminum	GA	Gallium
AS	Arsenic	GE	Germanium
BE	Beryllium	LI	Lithium
BI	Bismuth	MN	Manganese
BR	Bromine	MO	Molybdenum
CD	Cadmium	NI	Nickel
CO	Cobalt	PB	Lead
CR	Chromium	TI	Titanium
CU	Copper	V	Vanadium
FE	Iron	ZN	Zinc

TABLE E-2

TRACE MINERAL ANALYSES OF GROUND WATER

TRACE MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER

STATE WELL NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CO TI	CO V	CR ZN	CU SR	FE	GA	GE
05N/15E-29L01 M	5-20-68	5050	--		--	--	--	--	--	--	--	0.02	--	--
				0.02										
05N/15E-29M01 M	5-20-68	5050	--	0.00	--	--		--	--	--	--	2.6	--	--
				0.06			0.01							
03N/17E-20Q01 M	5-20-68	5050	--	0.00	--	--		--	--	--	--	0.03	--	--
				0.01			0.02							
02N/14E-23N01 M	5-23-68	5050	--	0.00	--	--		--	--	--	--	0.02	--	--
				0.04			0.00							
01N/14E-03R01 M	5-23-68	5050	--	0.00	--	--		--	--	--	--	0.03	--	--
				0.06			0.00							
01N/14E-11Q01 M	5-23-68	5050	--	0.00	--	--		--	--	--	--	0.04	--	--
				0.09			0.00							
01N/15E-06B01 M	5-23-68	5050	--	0.00	--	--		--	--	--	--	2.9	--	--
				0.06			0.02							
02S/04E-09A01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
02S/04E-13N01 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.07	--	--
02S/04E-25J01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.02	--	--
02S/05E-06F01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	2.81	--	--
02S/05E-10R01 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.01	--	--
02S/05E-10R02 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
02S/05E-24C01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.19	--	--
02S/06E-20J05 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.06	--	--
03S/05E-04R01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.78	--	--
03S/05E-17B01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.35	--	--
03S/06E-04N01 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
03S/06E-10B01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
03S/06E-18R01 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.05	--	--
03S/06E-28N01 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.05	--	--
04S/06E-15R01 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.06	--	--
04S/07E-16E01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.01	--	--
04S/07E-30G01 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.74	--	--
05S/07E-09J01 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.31	--	--
05S/07E-12N01 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	0.85	--	--
05S/07E-35A01 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.01	--	--
05S/08E-09N01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
05S/08E-27M01 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	0.62	--	--
05S/08E-30G02 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.06	--	--
06S/08E-03J01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.01	--	--
06S/08E-05N02 M	5-03-68	5000	--	--	--	--	--	--	--	--	--	0.03	--	--
06S/08E-20D01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.16	--	--
06S/08E-24N01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.02	--	--
06S/08E-34R02 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	0.02	--	--
06S/09E-21M01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
07S/08E-14E01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0 00	--	--

TABLE E-2 (Continued)

TRACE MINERAL ANALYSES OF GROUND WATER

TRACE MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER

STATE WELL NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	GA	GE
07S/08E-36A01 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
08S/09E-03M01 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	0.19	--	--
08S/09E-08H01 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	3.34	--	--
08S/09E-08N02 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	0.01	--	--
08S/09E-21A01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.02	--	--
08S/09E-34K01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.61	--	--
09S/09E-13F01 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	0.42	--	--
09S/09E-26B02 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.04	--	--
09S/09E-27E01 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	4.24	--	--
09S/10E-07K01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
09S/10E-34R01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.03	--	--
09S/12E-21R01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	1.52	--	--
09S/12E-32N01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.04	--	--
10S/09E-05C01 M	5-02-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
10S/11E-18R02 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.44	--	--
10S/11E-19D02 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.31	--	--
10S/11E-26D01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	4.22	--	--
10S/12E-06F01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.21	--	--
10S/12E-13L01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
10S/13E-19F01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.37	--	--
11S/11E-02P01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.00	--	--
11S/10E-13M01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.06	--	--
11S/10E-22F01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.02	--	--
11S/10E-22H01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	1.05	--	--
11S/11E-05D01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.05	--	--
11S/11E-17M01 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	4.18	--	--
11S/12E-19R01 M	4-30-68	5000	--	--	--	--	--	--	--	--	--	0.10	--	--
12S/11E-13D02 M	5-01-68	5000	--	--	--	--	--	--	--	--	--	0.03	--	--
12S/20E-32Q02 M	6-10-68	5050	0.05 --	0.00 0.00	--	--	-- 0.00	--	--	-- 0.02	0.00	0.03	--	--
13S/20E-05E02 M	6-10-68	5050	0.05 --	0.00 0.01	--	--	- 0.00	--	--	-- 0.29	0.01	0.06	--	--
13S/20E-05J01 M	6-10-68	5050	0.05 -	0.00 0.02	--	--	-- 0.00	--	--	-- 0.25	0.05	--	--	--
20S/29E-14R01 M	2-09-68	5050	0.05 --	0.01 0.00	--	--	-- 0.02	--	--	--	0.01	0.02	--	--
20S/29E-23P01 M	2-09-68	5050	0.02 --	0.01 0.21	--	--	-- 0.00	--	--	--	0.05	0.00	--	--
20S/29E-26B01 M	2-09-68	5050	0.03 --	0.01 0.00	--	--	-- 0.01	--	--	-- 0 06	0.00	0.01	--	--

TABLE E-2 (Continued)

TRACE MINERAL ANALYSES OF GROUND WATER

TRACE MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER

STATE WELL NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	GA	GE
24S/24E-09K01 M	12-01-68	5050	--	0.14 --	--	--	--	--	--	--	--	--	--	--
24S/26E-35A01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
24S/27E-31E01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
24S/27E-33R01 M	05-03-68	5050	--	0.00 --	--	--	--	--	--	--	--	--	--	--
25S/26E-01K01 M	05-03-68	5050	--	0.00 --	--	--	--	--	--	--	--	--	--	--
25S/26E-01R01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-08H01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-08H03 M	05-03-68	5050	--	0.00 --	--	--	--	--	--	--	--	--	--	--
25S/27E-11Q01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-15P01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-19K01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-24M01 M	05-03-68	5050	--	0.04 --	--	--	--	--	--	--	--	--	--	--
25S/27E-27G01 M	05-03-68	5050	--	0.00 --	--	--	--	--	--	--	--	--	--	--
25S/27E-28G01 M	05-03-68	5050	--	0.02 --	--	--	--	--	--	--	--	--	--	--
11N/20W-13M01 S	08-28-68	5050	--	0.00 --	--	--	0.00	--	--	0.00	--	0.00	--	--
11N/20W-24E01 S	08-28-68	5050	--	0.01 --	--	--	0.02	--	--	0.00	--	0.01	--	--

TABLE E-2 (Continued)

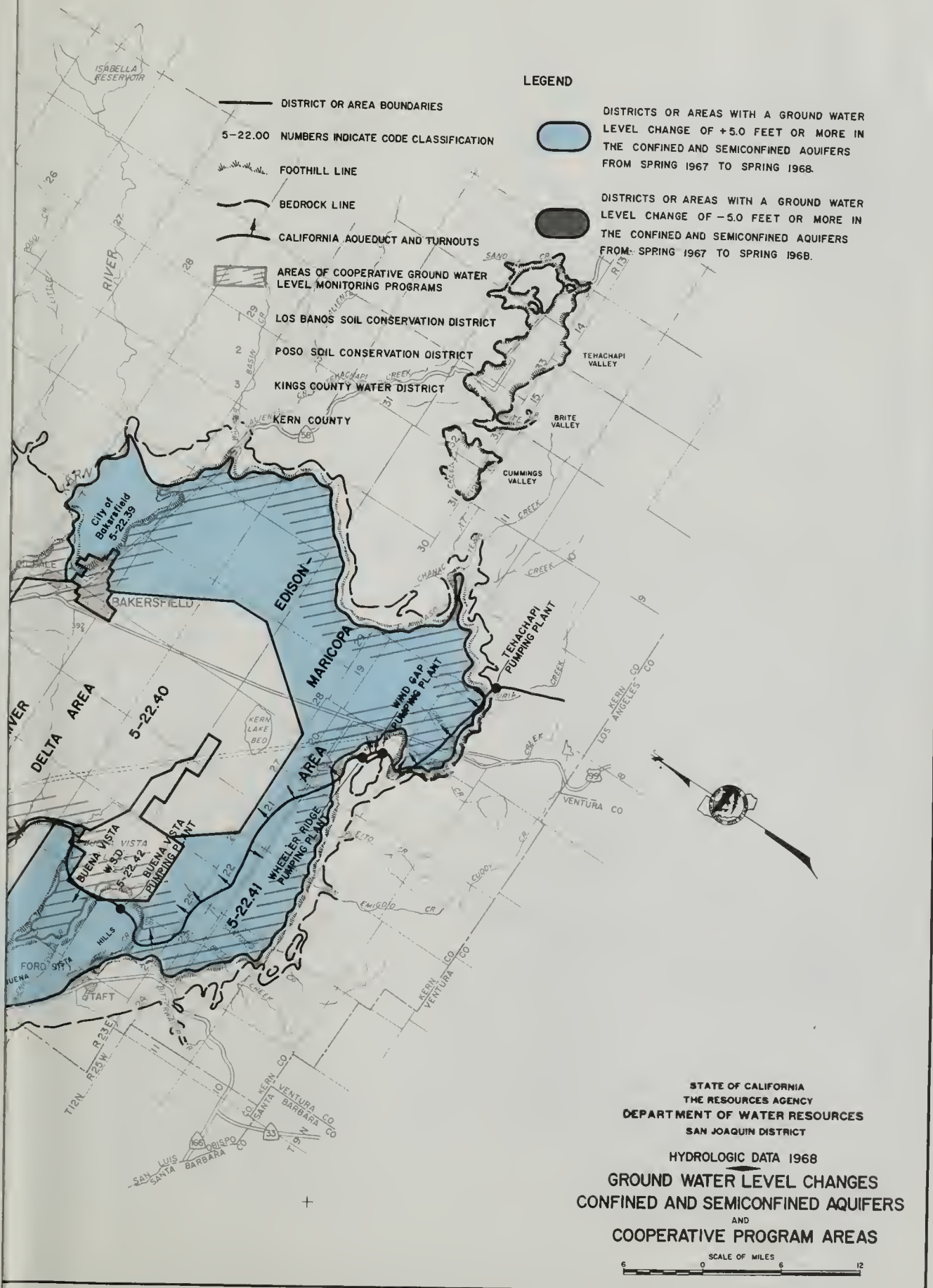
TRACE MINERAL ANALYSES OF GROUND WATER

TRACE MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER

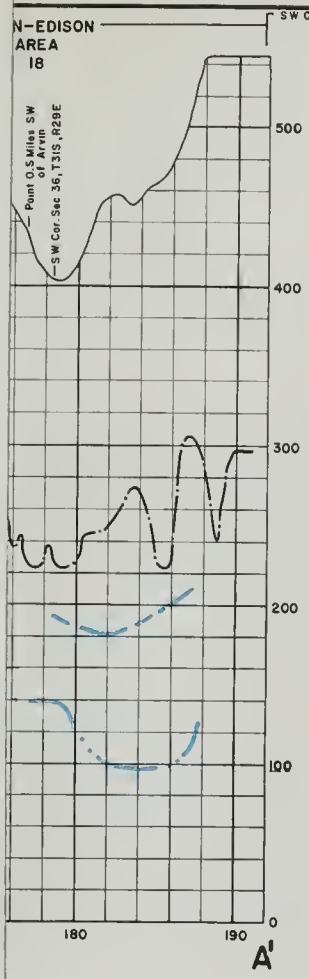
STATE WELL NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	GA	GE
24S/24E-09K01 M	12-01-68	5050	--	0.14 --	--	--	--	--	--	--	--	--	--	--
24S/26E-35A01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
24S/27E-31E01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
24S/27E-33R01 M	05-03-68	5050	--	0.00 --	--	--	--	--	--	--	--	--	--	--
25S/26E-01K01 M	05-03-68	5050	--	0.00 --	--	--	--	--	--	--	--	--	--	--
25S/26E-01R01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-08H01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-08H03 M	05-03-68	5050	--	0.00 --	--	--	--	--	--	--	--	--	--	--
25S/27E-11Q01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-15P01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-19K01 M	05-03-68	5050	--	0.01 --	--	--	--	--	--	--	--	--	--	--
25S/27E-24M01 M	05-03-68	5050	--	0.04 --	--	--	--	--	--	--	--	--	--	--
25S/27E-27G01 M	05-03-68	5050	--	0.00 --	--	--	--	--	--	--	--	--	--	--
25S/27E-28G01 M	05-03-68	5050	--	0.02 --	--	--	--	--	--	--	--	--	--	--
11N/20W-13M01 S	08-28-68	5050	--	0.00 --	--	--	0.00	--	--	0.00	--	0.00	--	--
11N/20W-24E01 S	08-28-68	5050	--	0.01 --	--	--	0.02	--	--	0.00	--	0.01	--	--

PLATE I

LEGEND
DISTRICT OR AREA BOUNDARIES
5-22.00 NUMBERS INDICATE CODE CLASSIFICATION
FOOTHILL LINE
BEDROCK LINE
CALIFORNIA AQUEDUCT AND TURNOUTS
WELLS MEASURED MONTHLY
WELLS MEASURED ANNUALLY AND SEMI-ANNUALLY
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1967 TO SPRING 1968
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -5.0 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1967 TO SPRING 1968
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1968
GROUND WATER LEVEL CHANGES
UNCONFINED AND SEMICONFINED AQUIFERS
AND
SELECTED OBSERVATION WELLS
SCALE OF MILES
ORANGE COVE I.D. 5-22.21
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
PIXLEY I.D. 5-22.33
DELANO-EARLIMART I.D. 5-22.35
SOUTHERN SAN JOAQUIN MUD. 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
CONSOLIDATED I.D. 5-22.18
MADERA I.D. 5-22.13
FRESNO I.D. 5-22.15
LOWER KINGS RIVER AREA 5-22.20
CORCORAN I.D. 5-22.46
ALBAUGH-ALLENSWORTH AREA 5-22.34
SEMITROPIC W.S.D. 5-22.43
LOST HILLS AREA 5-22.45
TULARE LAKE 5-22.47
MERCED I.D. 5-22.09
MERCED BOTTOMS 5-22.54
CHOWCHILLA W.D. 5-22.12
WEST CHOWCHILLA-MADERA AREA 5-22.14
FRESNO SLOUGH AREA 5-22.17
HURON AREA 5-22.11
OAKDALE I.D. 5-22.06
MODESTO I.D. 5-22.07
TURLOCK I.D. 5-22.08
SAN LUIS CANAL CO. 5-22.49
POSO S.C.D. 5-22.48
TRACY AREA 5-22.04
DELTA-MENDOTA AREA
MENDOTA
MONTTRICK AREA 5-22.44
AVENAL
EDISON
MARICOPA
5-22.41
FRESNO
MODESTO
TURLOCK
BAKERSFIELD
WEST BRANCH
EAST BRANCH
MERCED RIVER
MERCED
SOUTH BAY AQUEDUCT
COASTAL BRANCH
DELTA PUMPING PLANT
NORTH BAY AQUEDUCT
SOUTH BAY PUMPING PLANT
LAKE PIRU PUMPING PLANT
PYRAMID LAKE
CASTAIC LAKE
LAKE PERRIS
LAKE MATHEWS
LAKE SKINNER
LAKE ELSINORE
LAKE HENSHAW
LAKE CUYAMACA
LAKE MORENA
LAKE HODGES
LAKE SAN VICENTE
LAKE JENNINGS
LAKE MURRAY
LAKE ALVARADO
LAKE CHARLES
LAKE SAN DIEGO
LAKE OTAY
LAKE SWEETWATER


LEGEND
DISTRICT OR AREA BOUNDARIES
5-22.00 NUMBERS INDICATE CODE CLASSIFICATION
FOOTHILL LINE
BEDROCK LINE
CALIFORNIA AQUEDUCT AND TURNOUTS
AREAS OF COOPERATIVE GROUND WATER LEVEL MONITORING PROGRAMS
LOS BANOS SOIL CONSERVATION DISTRICT
POSO SOIL CONSERVATION DISTRICT
KINGS COUNTY WATER DISTRICT
KERN COUNTY
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1967 TO SPRING 1968.
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF −5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1967 TO SPRING 1968.
ISABELLA RESERVOIR
TEHACHAPI VALLEY
BRITE VALLEY
CUMMINGS VALLEY
City of Bakersfield 5-22.39
BAKERSFIELD
EDISON-MARICOPA
DELTA AREA
5-22.40
KERN LAKE BED
WIND GAP PUMPING PLANT
TEHACHAPI PUMPING PLANT
AREA
WHEELER RIDGE PUMPING PLANT
5-22.41
BUENA VISTA WSD 5-22.42
BUENA VISTA PUMPING PLANT
FORD CITY
STAFF
KERN CO
LOS ANGELES CO
VENTURA CO
SANTA BARBARA CO
SAN LUIS OBISPO CO
T12N
R23E
R25W
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1968
GROUND WATER LEVEL CHANGES
CONFINED AND SEMICONFINED AQUIFERS
AND
COOPERATIVE PROGRAM AREAS
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
AREAS OF COOPERATIVE GROUND WATER LEVEL MONITORING PROGRAMS
LOS BANOS SOIL CONSERVATION DISTRICT
POSO SOIL CONSERVATION DISTRICT
KINGS COUNTY WATER DISTRICT
KERN COUNTY
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +50 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1967 TO SPRING 1968
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -50 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1967 TO SPRING 1968
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1968
GROUND WATER LEVEL CHANGES
CONFINED AND SEMICONFINED AQUIFERS
OF
COOPERATIVE PROGRAM AREAS
SCALE IN MILES
ORANGE COVE I.D. 5-22.21
ALTA I.D. 5-22.9
KINGSBURG I.D. 5-22.23
KAWEAH DELTA
W.C.D. 5-22.24
LIMOONE I.D. 5-22.28
TULARE I.D. 5-22.25
LOWER TULE RIVER I.D. 5-22.30
PIXLEY I.D. 5-22.33
DELANO-EARLIMART I.D. 5-22.35
SOUTHERN SAN JOAQUIN MUD. 5-22.36
NORTH KERN W.S.D.
SHAFTER-WASCO I.D. 5-22.38
5-22.37
CONSOLIDATED I.D. 5-22.16
LOWER KINGS RIVER AREA 5-22.20
CORCORAN I.D. 5-22.46
ALPAUGH-ALLENSWORTH AREA 5-22.34
TULARE LAKE-LOST HILLS AREA 5-22.45
KERN RIVER DELTA AREA 5-22.40
EDISON-MARICOPA AREA 5-22.41
MCKITTRICK AREA 5-22.44
AVENAL
COASTAL BRANCH
FRESNO I.D. 5-22.15
FRESNO SLOUGH AREA 5-22.17
HURON AREA 5-22.47
MADERA I.D. 5-22.13
WEST CHOWCHILLA-MADERA AREA 5-22.14
CHOWCHILLA W.D. 5-22.12
MERCED BOTTOMS 5-22.54
MERCED I.D. 5-22.09
OAKDALE I.D. 5-22.08
MODESTO I.D. 5-22.07
TURLOCK I.D. 5-22.06
SAN LUIS CANAL CO. 5-22.49
POSO CREEK 5-22.42
MENDOTA-DELTA
MENDOTA
TRACY AREA 5-22.04
FRESNO
MODESTO
TOCK DIN
SOUTH BAY AQUEDUCT
DELTA PUMPING PLANT
LOS BANOS VALLEY
PANOCHE VALLEY
TEMACHAPI VALLEY
SAN BERNARDINO VALLEY
HINSDALE VALLEY
ANTELOPE VALLEY
PALMDALE PUMPING PLANT
CASTAIC LAKE
PYRAMID LAKE
ELDERWOOD
PALMDALE PUMPING PLANT
DELTA PUMPING PLANT
SOUTH BAY PUMPING PLANT
CASTAIC PUMPING PLANT
PYRAMID PUMPING PLANT
ELDERWOOD PUMPING PLANT
ANTELOPE PUMPING PLANT
SAN LUIS RESERVOIR



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 Mc FARLAND-SHAFTER
17 ROSEDALE
18 ARVIN-EDISON

LEGEND

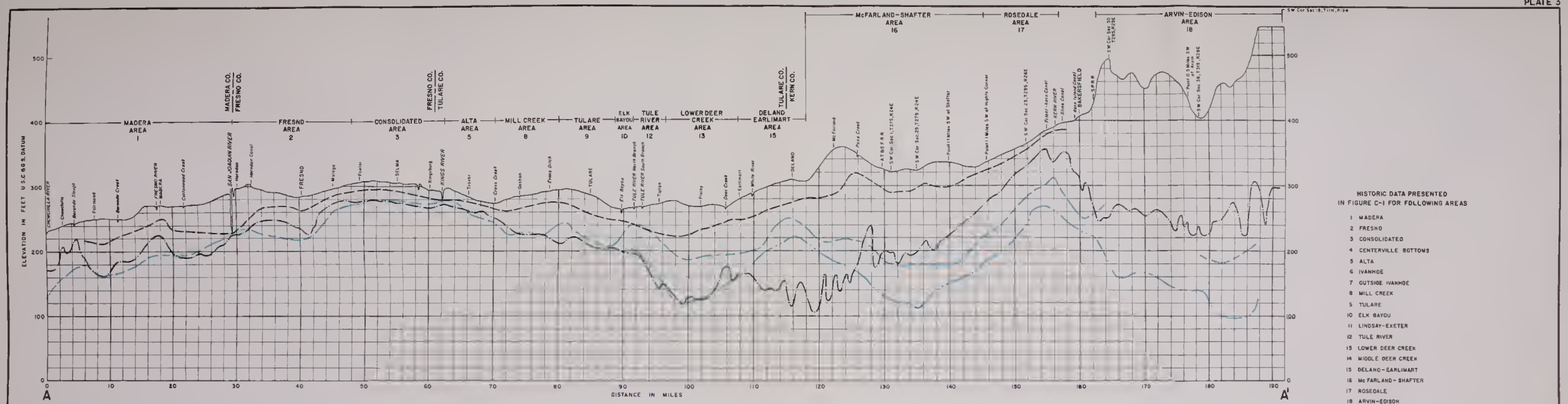
GROUND WATER AREA BOUNDARIES
GROUND WATER LEVEL FALL 1921
GROUND WATER LEVEL FALL 1951
GROUND WATER LEVEL SPRING 1968, UNCONFINED AQUIFER
GROUND WATER LEVEL SPRING 1968, PRESSURE SURFACE
GROUND WATER LEVEL PROFILE SECTION

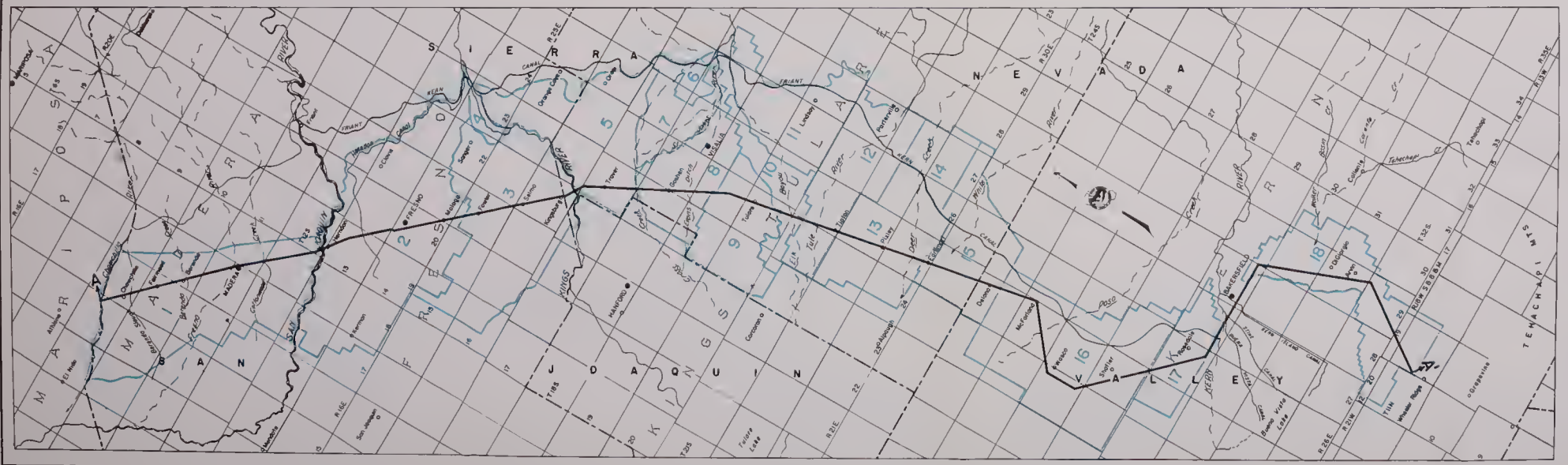
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1968

MAP OF SELECTED GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951 & 1968

SCALE OF MILES
6 0 6 12



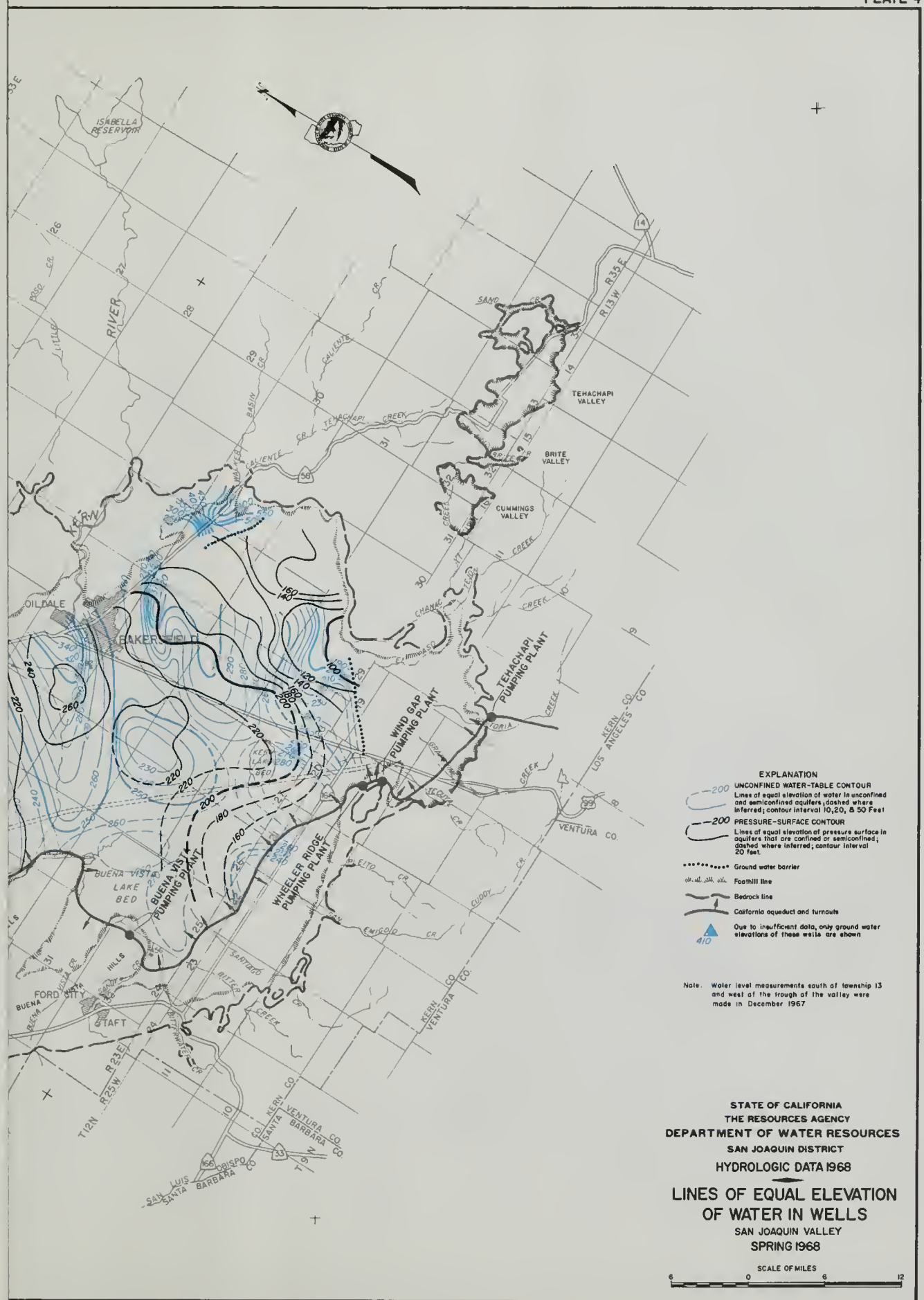


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1968

MAP OF SELECTED GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951 & 1968

SCALE OF MILES


ISABELLA RESERVOIR
KERN RIVER
OILDALE
BAKERSFIELD
TEHACHAPI VALLEY
BRITE VALLEY
CUMMINGS VALLEY
TEHACHAPI PUMPING PLANT
WIND GAP PUMPING PLANT
WHEELER RIDGE PUMPING PLANT
BUENA VISTA PUMPING PLANT
BUENA VISTA LAKE BED
KERN LAKE BED
FORD CITY
TAFT
VENTURA CO.
LOS ANGELES CO.
KERN CO.
SANTA BARBARA CO.
SAN LUIS OBISPO CO.
R 35 E
R 13 W
R 23 E
R 25 W
T 12 N
EXPLANATION
200 UNCONFINED WATER-TABLE CONTOUR
Lines of equal elevation of water in unconfined and semiconfined aquifers; dashed where inferred; contour interval 10, 20, & 50 Feet
200 PRESSURE-SURFACE CONTOUR
Lines of equal elevation of pressure surface in aquifers that are confined or semiconfined; dashed where inferred; contour interval 20 feet.
Ground water barrier
Foothill line
Bedrock line
California aqueduct and turnouts
410
Due to insufficient data, only ground water elevations of these wells are shown
Note. Water level measurements south of township 13 and west of the trough of the valley were made in December 1967
STATE OF CALIFORNIA
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SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1968
LINES OF EQUAL ELEVATION OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1968
SCALE OF MILES
6 0 6 12

FRESNO
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1968
LINES OF EQUAL ELEVATION
OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1968

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