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BULLETIN No. 130-71

HYDROLOGIC DATA: 1971

Volume IV: SAN JOAQUIN VALLEY

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DECEMBER 1972

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VOLUME I
NORTH COASTAL
AREA

VOLUME II
NORTHEASTERN
CALIFORNIA

VOLUME III
CENTRAL
COASTAL
AREA

VOLUME IV
SAN JOAQUIN
VALLEY

BULLETIN No. 130

HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES

Each Volume Contains

- Appendix A: Climatological Data
- Appendix B: Surface Water Measurements
- Appendix C: Ground Water Measurements
- Appendix D: Surface Water Quality
- Appendix E: Ground Water Quality

This Volume



This Area Reported In
Volume III & V

VOLUME V
SOUTHERN CALIFORNIA

FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-71 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for monitoring environmental conditions as well as effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli.

William R. Gianelli, Director
Department of Water Resources
State of California
September 15, 1972

METRIC CONVERSION TABLE

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

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State of California
The Resources Agency
Department of Water Resources

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, JR., Secretary for Resources
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Turlock Irrigation District
Oakdale Irrigation District
Merced Irrigation District
Fresno Irrigation District
Kings River Water Association
Central California Irrigation District
Tule River Association
Fresno County Health Department
Kern County Health Department
Tulare County Health Department
Kern County Parks and Recreation Department

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1970-71 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, fall 1970, and spring 1971; profile of ground water levels; ground water areas; and well locations.

APPENDIX A
CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation data in the San Joaquin Valley from July 1, 1970 to September 30, 1971, for stations which are not published by the National Weather Service. Also presented are annual precipitation values from 43 storage gages.

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

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

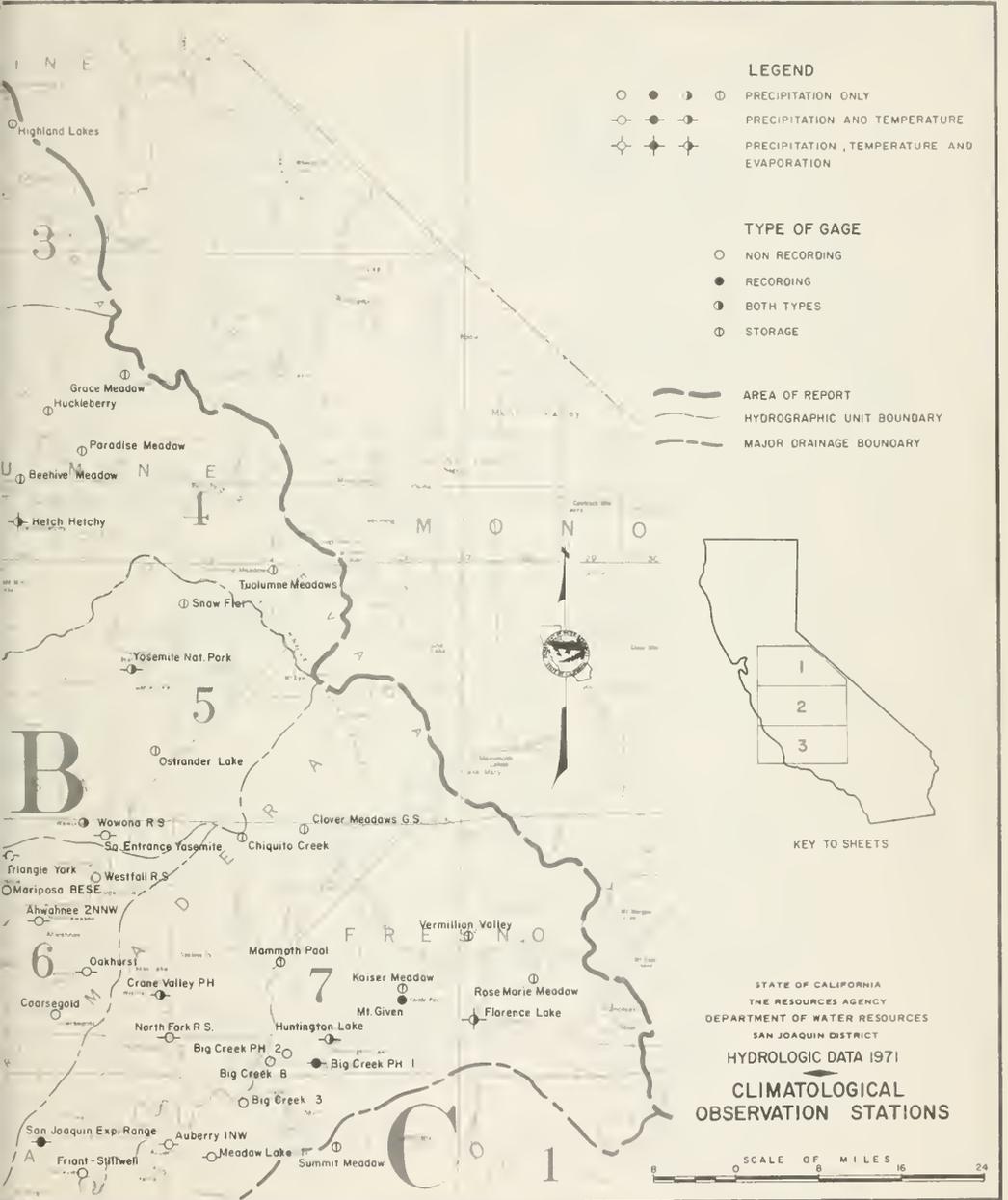
Table A-2 presents monthly precipitation data on 145 of the stations shown in the index.

Table A-3 presents storage gage precipitation data.

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

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

HYDROGRAPHIC AREA B	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



LEGEND

- ● ◐ ⊕ PRECIPITATION ONLY
- ●—● ◐—◐ ⊕—⊕ PRECIPITATION AND TEMPERATURE
- ●—●—● ◐—◐—◐ ⊕—⊕—⊕ PRECIPITATION, TEMPERATURE AND EVAPORATION

TYPE OF GAGE

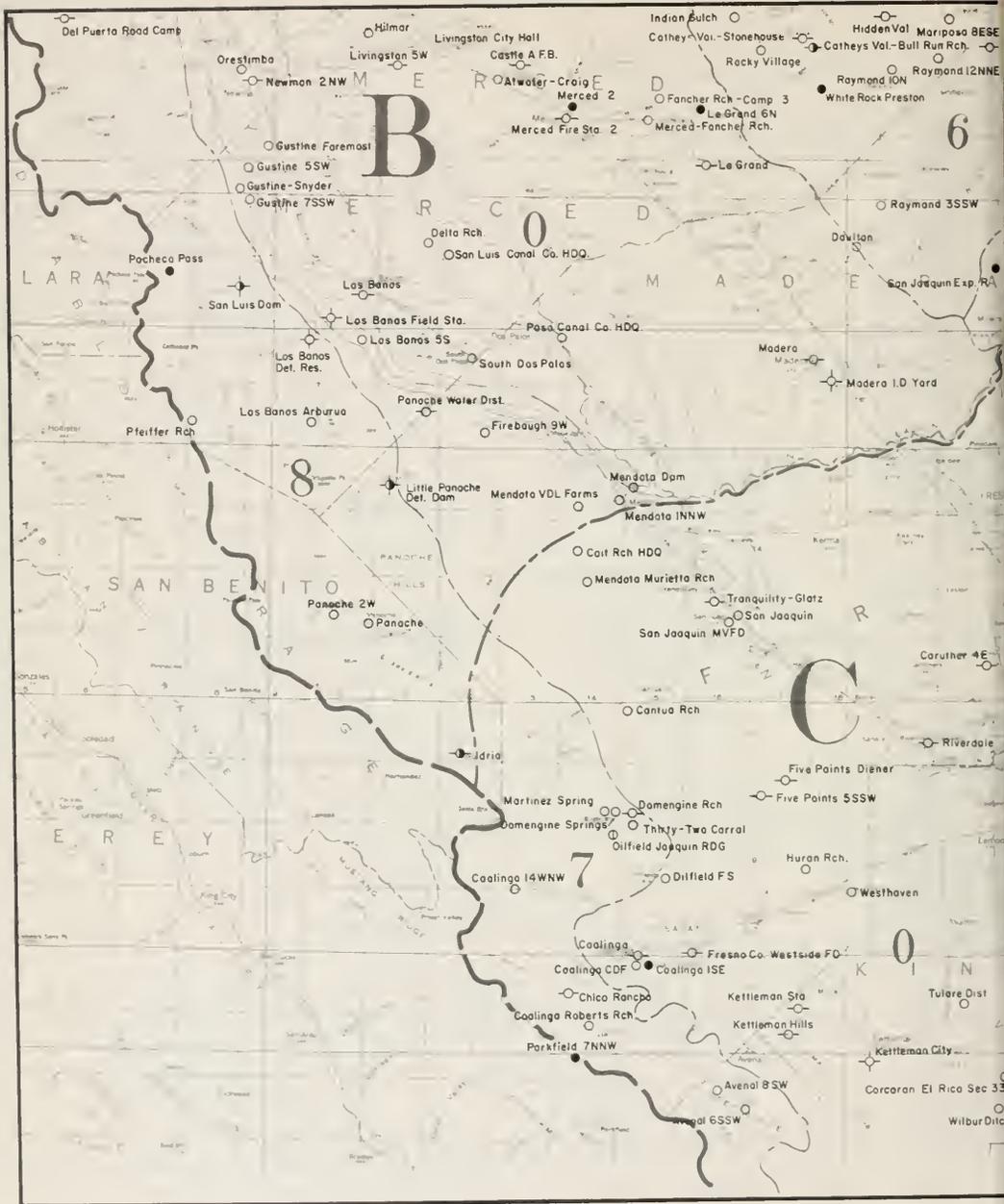
- NON RECORDING
- RECORDING
- ◐ BOTH TYPES
- ⊕ STORAGE

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KEY TO SHEETS

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 HYDROLOGIC DATA 1971
 CLIMATOLOGICAL
 OBSERVATION STATIONS





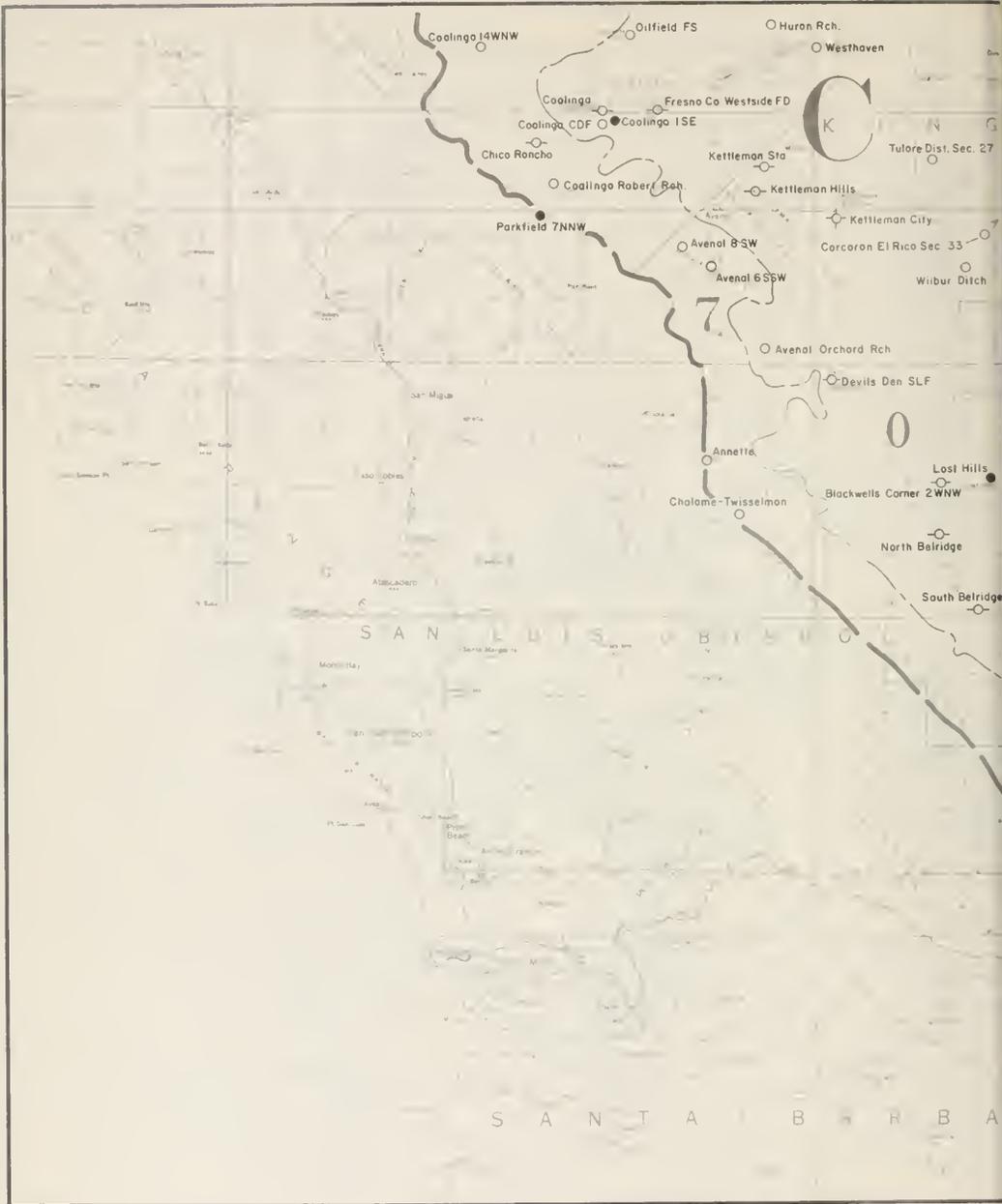




TABLE A-1

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	National Weather Service
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	National Weather Service (State Climatologist)
916	U. S. Geological Survey

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

Record Began. This is shown to year only.

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

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

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

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

TABLE A-1
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40- 40- Base B Intersection	Latitude	Longitude	Cooperator Number	Cooperator's Number	Record Begin	Record End	Years Missing	County Code
Number	Name													
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P M	36 52 58	119 32 25	83		1958	1970		10
B6 0049	AHWAIWEE 2 NNW	2680	SEC 24	T06S	R20E	M	37 23 22	119 44 07	907		1958			54
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D M	35 59 25	119 28 42	900		1899			54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	E M	38 04 20	120 32 18	003		1908			05
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R M	35 38 48	120 10 12	000		1952			15
C0 0332	ARVIN	445	SEC 23	T31S	R29E	M	35 12 00	118 49 00	000		1936			15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R27E	L M	36 29 30	118 49 35	900		1925			54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E	M	37 21	120 37	000		1961	1969		24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E	M	36 28 00	118 40 00	900		1948			54
B7 0379	AUBERRY 1 NW	2010	SEC 06	T10S	R23E	A M	37 05 40	119 29 50	900		1915			10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P M	35 48 23	120 05 18	000		1919			16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G M	35 57 33	120 13 25	000		1957			16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K M	35 55 30	120 10 05	000		1953			16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P M	36 37 53	119 00 46	900		1940			54
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H M	35 22 41	119 02 17	900		1913	1969		15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q M	35 25 38	119 02 34	900		1933			15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B M	36 54 33	119 05 15	900		1921			10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E	M	36 49 11	118 53	900		1961			10
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R18E	E M	38 27 45	120 02 30	000		1967			02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E	M	37 34	120 07	903		1960			22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E	M	38 12 12	120 04 30	404		1959			55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E	M	36 41 00	118 52 00	900		1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E	M	38 00 00	119 47 00	900		1947	1971		55
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B M	35 20 11	119 05 27	001		1961	1969		15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C M	36 41 05	119 01 50	000		1967			10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J M	37 12 15	119 14 20	900		1915			10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N M	37 11 59	119 18 19	004		1913			10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E M	37 08 54	119 23 00	004		1922			10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G M	37 12 00	119 20 00	004		1921			10
C0 0875	BLACKWELLS CORNER 2 WNW	710	SEC 35	T26S	R19E	L M	35 37 15	119 53 40	900		1944		13	15
C1 0980-80	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	1969		15
C0 1175	BUENA VISTA RCH M&L	390	SEC 28	T31S	R26E	N M	35 11 42	119 11 43	002		1955			15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R M	35 14 25	119 18 23	002		1962			15
C0 1244	BUTTONWILLOW	270	SEC 24	T29S	R23E	K M	35 24 00	119 28 00	900		1940			15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L M	38 11 50	120 21 55	900		1944			05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R M	36 08 17	118 37 36	000		1959	1970		54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N M	36 28 35	120 23 20	000		1955			10
C0 1557	CARTHURS 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
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 34	T06S	R17E	H M	37 23 56	120 03 08	900		1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B M	37 28 33	120 06 33	000		1957			22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M	37 24 30	120 05 00	000		1951	1970		22
B5 1647	CHAGOOPA	10390		T16S	R33E	M	36 30	118 27	901		1964			54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L M	37 58 00	119 55 00	900		1955			55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M	36 05 13	120 29 22	000		1969			10
B7 1737	CHICOITO CREEK	7290	SEC 07	T05S	R24E	N M	37 30 20	119 23 21	900		1961			20
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 15	T27S	R17E	R M	35 35 30	120 07 00	000		1951			40
C6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W	S	34 48 00	119 01 00	900		1941			56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M S	35 02 18	118 58 28	001		1963	1969		15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E	M	37 32	119 17	900		1946			20
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P M	36 09 00	120 21 00	900		1942			10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R M	36 02 18	120 26 40	000		1953			10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J M	36 07 39	120 20 38	900		1911			10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E	M	36 14 00	120 34 00	900		1949			10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q M	36 08 03	120 22 00	808		1961			10
B6 1878	CORSEGOLD	2363	SEC 05	T08S	R21E	M	37 16 00	119 42 00	900		1952			20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D M	36 42 22	120 28 25	000		1954			10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	N M	38 02 22	120 24 37	000		1969			55
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K M	37 59 00	120 38 00	903		1954		03	05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P M	36 05 53	119 34 51	900		1912			16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	E M	36 02 36	119 38 42	002		1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q M	35 57 49	119 42 14	002		1951	1964		16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A M	37 43 25	120 12 12	808		1959			22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E	M	36 34 00	118 21 00	000		1948			54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	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	1969		54

TABLE A-1 (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude		Longitude		Cooperator Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code	
Number	Name						O	N	O	W							
CO 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900		1876	15
CO 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904		1952	15
BS 2369	DEL PUERTO ROAD CAMP	1125	SEC 19	T06S	R05E	Q	M	37	25	24	121	22	42	900		1958	50
BO 2375	DELTA RANCH	90	SEC 26	T09S	R11E	M	M	37	07	00	120	44	00	013		1949	01 24
BO 2389	DENAIR 3 NNE	137	SEC 20	T04S	R11E	M	M	37	34	120	47	00			1964	50	
BO 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000		1965	24
CO 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	119	58	22	000		1959	15
CO 2436	DIGIORGIO	483	SEC 10	T36S	R29E	B	M	35	15	08	118	51	00	000		1937	15
CO 2440-01	DIUNBA 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	1970 10
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904		1940	55
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E	M	M	35	57	00	118	36	00	900		1955	54
BS 2539	DUBLEYS	3000	SEC 21	T02S	R31E	D	M	37	45	14	120	06	30	900		1909	22
C1 2577	DUSY BENCH	9470	SEC 06	T10S	R31E	M	M	37	06	118	35	30	900		1964	10	
C3 2591	EAGLE CREEK	6650	SEC 11	T22S	R31E	M	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
CO 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E	M	M	35	06	05	119	01	45	001		1963	1969 15
BO 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000		1953	50
BO 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000		1944	39
BS 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900		1935	22
CO 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900		1938	54
BO 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000		1959	24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000		1956	15
BO 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000		1934	1969 10
CO 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900		1942	10
CO 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	20	120	06	12	000		1933	10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900		1940	10
CO 3207	FOUNTAIN SPRINGS R S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	808		1965	54
CO 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900		1899	10
CO 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	806		1963	10
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
CO 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002		1960	15
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900		1951	15
C4 3465	GLENNVILLE FULTON R S	3000	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900		1940	15
B4 3529	GRACE MEADOW	8500	SEC 31	T04N	R22E	M	M	38	09	00	119	36	00	900		1947	1970 55
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900		1924	54
BS 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000		1965	22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900		1940	55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900		1940	55
BO 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000		1927	24
BO 3690-04	GUSTINE 5 NE	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000		1930	24
BO 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000		1928	24
BO 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000		1958	24
CO 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900		1899	16
CO 3749	HANFORD REFINERY	245	SEC 36	T18S	R21E	Q	M	36	18	59	119	39	10	000		1964	16
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905		1960	10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	56	42	119	46	54	900		1910	55
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000		1949	22
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900		1960	02
BO 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37	24	10	120	50	59	000		1948	24
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E	M	M	36	22	00	118	39	00	900		1959	54
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E	M	M	37	48	119	52	907			1967	55	
CO 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002		1952	1969 16
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 GILLES 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	M	36	11	00	118	37	00	900		1959	54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E	M	M	38	06	00	119	45	00	900		1948	1971 55
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900		1950	05
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900		1915	10
CO 4188	HURON RANCH	335	SEC 22	T19S	R17E	M	M	36	15	41	120	06	05	000		1951	10
BS 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900		1918	35
BS 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	000		1952	1970 22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	P	M	35	38	46	118	28	45	903		1949	15
CO 4312	IVANHOE I D	370	SEC 36	T18S	R25E	R	M	36	24	15	119	12	21	000		1954	54
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E	M	M	37	32	36	119	50	905		1958	22	
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35	58	13	118	32	27	900		1954	54

TABLE A-1 (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude		Longitude		Cooperator Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						°	'	°	'						
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E	M 37	18	00	119	06	00	1946			10	
C2 4452	KAWAIAH PH 3	1370	SEC 33	T16S	R29E	Q M 36	29	12	118	50	06	1913			54	
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C M 35	13	28	118	33	55	1948			15	
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B M 35	26	27	118	47	05	1916			15	
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F M 35	56	43	118	28	33	1921			54	
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N M 35	27	37	118	46	48	1904			15	
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R31E	A M 36	15	35	118	25	08	1946			15	
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	C M 35	59	45	119	57	55	1930	03		16	
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F M 36	01	50	120	06	15	1931			16	
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L M 36	04	28	120	05	08	1933			16	
B0 4590	KNIGHTS FERRY 2 SE	315	SEC 27	T01S	R12E	M 37	47	54	120	38	42	1905			50	
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A M 38	28	42	120	00	48	1948			02	
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F M 37	58	00	119	53	00	1909			55	
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	P S 34	49	58	118	51	90	1940			15	
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N M 37	13	50	120	14	50	1899			24	
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H M 37	18	39	120	15	05	1946			24	
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N M 36	23	00	119	01	31	1899			54	
C0 4957	LINDSAY	395	SEC 21	T30S	R27E	F M 36	11	24	119	04	20	1900			54	
B8 4979	LITTLE PANOCH DET RES	677	SEC 20	T13S	R11E	M 36	47	120	48	900		1968			10	
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E M 37	23	10	120	43	15	1948	07		24	
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D M 37	22	29	120	47	40	1952			24	
C2 5026	LODGEPOLE	6735	SEC 21	T15S	R30E	M 36	36		118	14	900	1968			54	
C6 5098	LORAIN	2720	SEC 17	T30S	R27E	K M 35	18	05	118	25	54	1941			15	
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P M 36	59	02	120	50	45	1948			24	
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q M 37	00	54	120	53	55	1956			24	
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L M 37	03	00	120	51	00	1873			24	
B8 5119	LOS BANOS ARBURIA	860	SEC 22	T15S	R09E	C M 36	52	52	120	56	25	1966			24	
BB 5120	LOS BANOS DET RES	407	SEC 12	T11S	R09E	M 37	01	01	120	56	900	1968			24	
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N M 35	35	07	119	45	17	1912			15	
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J M 36	54	48	119	14	42	1905			10	
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E	M 38	01	00	119	53	00	1948	17		55	
B0 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N M 36	55	15	120	01	12	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	1927			15	
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D M 37	20	31	119	19	45	1947			20	
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H M 37	47		121	12	900	1964			39	
C7 5338	MARICOPA	680	SEC 31	T12N	R23W	N S 35	04	48	119	22	58	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	1909			22	
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B M 37	29	20	119	57	55	1958			22	
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E M 37	26	30	119	49	37	1952			22	
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F M 37	30	04	119	59	05	1943			22	
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B M 36	20	24	120	24	54	1959	1970		10	
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G M 37	53	25	119	51	10	1930		21	55	
B5 5460	MCDERMID STA	2990	SEC 33	T02S	R17E	H M 37	43	18	119	05	48	1959	1969		22	
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E M 35	18	20	120	37	20	1956			15	
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F M 37	04	38	119	26	00	1948			10	
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K M 37	57	10	120	30	53	1955	1969		55	
B0 5526	MENDOTA 1 NNW	172	SEC 25	T13S	R14E	H M 36	46	23	120	23	09	1941			10	
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M M 36	39	05	120	27	20	1958			10	
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G M 36	47	15	120	22	12	1873			10	
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	O M 36	44	58	120	28	00	1948			10	
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E	M 37	17	43	120	29	13	1872			24	
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F M 37	17	47	120	21	09	1920			24	
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A M 37	18	53	120	28	12	1900			24	
C3 5669	MILO 5 NE	3400	SEC 18	T19S	R30E	C M 36	16	40	118	46	15	1957			54	
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E S 34	51	02	119	11	18	1966			15	
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E	M 36	26	00	118	35	00	1956	1969		54	
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D M 36	40	00	119	05	00	1958			10	
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E	M 36	45	00	118	43	00	1957			10	
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B M 37	48	48	120	18	20	1935			55	
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H M 37	38	48	120	10	02	1926			50	
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J M 37	40	12	120	58	42	1959			50	
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M M 37	38	36	121	09	29	1942			50	
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E	M 36	13	00	118	10	00	1940			54	
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E	N S 35	06	15	118	58	00	1963	1969		15	
C1 5832	MORAIN CREEK	8840	SEC 24	T14S	R31E	M 36	43		118	34	903	1964			54	
C3 5887	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J M 36	14	30	118	42	54	1963			54	
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E M 37	17		119	06	004	1963	1969		10	
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E M 37	20	33	122	50	00	1889			50	

TABLE A-1 (Cont.)
 INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code		
Number	Name															
C0 6230-50	NORTH BELBRIDGE	630	SEC 26	T2'S	R20E	F M	35 33	04 119	47	28	1900			1953	15	
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M M	37 13	57 119	30	15	1900			1904	20	
B0 6303	OAKDALE	155	SEC 04	T02S	R10E	K M	37 46	10 120	53	00	1900			1880	50	
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L M	37 19	46 119	38	42	0000			1961	2	
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F M	36 14	50 120	18	50	8008			1952	10	
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E	M	36 18	00 120	24	00	9000			1949	10	
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C M	35 16	11 119	16	8006			1965	15		
C5 6462	ONTX	2700	SEC 04	T26S	R30E	K M	35 41	00 118	14	00	9003			1938	15	
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K M	36 37	18 119	48	00	9000			1931	10	
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D M	37 21	42 121	03	47	013			1896	50	
B5 6552	OSTRANDER LAKE	8600	SEC	T03S	R22E	M	37 38	00 119	33	00	9000			1947	22	
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B M	37 04	00 121	11	00	9000			1949	24	
B6 6675	PANOCHÉ	1265	SEC 25	T15S	R10E	F M	36 35	47 120	49	58	9000			1922	35	
B6 6676	PANOCHÉ 2 W	1320	SEC 24	T15S	R10E	M	36 36	30 120	52	48	0000			1957	35	
B0 6679-05	PANOCHÉ WATER DIST	183	SEC 14	T12S	R11E	H M	36 53	24 120	43	43	0000			1949	10	
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E	M	38 03	00 119	40	00	9000		1971	1948	55	
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E	M	37 28	00 121	07	00	0000			1912	50	
B6 6754	PATTWAY	3868	SEC 19	T10N	R23W	E S	34 56	27 119	22	52	9000			1915	15	
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E	M	35 36	30 118	41	00	9000		1969	1956	54	
B8 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C M	36 52	59 121	08	12	0000			1954	24	
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E	M	38 12	119 59	905					1964	55	
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F M	38 11	25 119	59	12	0003			1922	55	
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A M	36 49	55 119	25	20	0003			1940	10	
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D M	36 41	54 119	00	54	9005			1954	10	
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R M	36 03	58 119	01	14	9000			1893	54	
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R M	36 04	50 119	04	14	0000			1958	54	
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E	M	35 48	00 118	34	00	9000			1953	54	
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E	M	35 48	00 118	38	00	9000		02	1964	54	
C0 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F M	35 33	15 119	04	25	0000			1967	1969	15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J M	35 36	30 119	15	45	0001			1913	1969	15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P M	36 58	57 120	30	04	013			1955	10	
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E	M	36 07	00 118	32	00	9000			1955	54	
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E	M	36 59	00 118	43	00	9000			1961	10	
B6 7270-01	RAYMOND 3 SSW	675	SEC 06	T09S	R19E	J M	37 10	32 119	55	55	0000			1940	20	
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A M	37 22	24 119	54	24	0000			1957	22	
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R M	37 22	37 119	49	58	0000			1954	22	
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J M	36 18	15 119	14	34	0004			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	0000			1963	39	
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P M	36 25	58 119	51	36	0000			1917	10	
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K M	37 20	45 120	08	42	0000			1957	22	
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E	M	36 04	24 118	38	12	9001			1964	54	
C0 7555	ROSDALE	380	SEC 01	T29S	R26E	R M	35 25	40 119	07	42	0001			1914	1969	15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E	M	37 19	00 118	52	00	9000			1953	10	
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E	M	35 58	00 118	21	00	9000			1947	54	
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E	M	38 06	00 119	51	00	9000		1971	1948	55	
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L S	34 59	45 119	10	59	9000			1901	1969	15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K M	36 43	30 119	32	36	0000			1959	10	
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E M	36 43	48 119	33	18	8008			1958	10	
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J M	36 36	25 120	11	15	0000			1919	10	
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E M	37 05	40 119	43	38	9000			1934	26	
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J M	36 36	28 120	11	18	8008			1962	1970	10
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E	M	37 03	121 04	904					1959	24	
B0 7855	SAN LUIS CANAL CO HDQ	99	SEC 31	T09S	R12E	P M	37 06	07 120	42	04	013			1944	24	
C0 7987-80	SANTIAGA RANCH	457	SEC 27	T12N	R22W	S	35 05	35 119	12	35	0000			1963	1970	15
B0 8316	SNELLING	239	SEC 04	T05S	R14E	M	37 31	24 120	26	18	0000			1882	19	24
B0 8316-05	SNELLING 3 WNW	300	SEC 36	T04S	R13E	J M	37 32	35 120	28	57	0000			1949	24	
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E	M	37 50	00 119	30	00	9000			1947	22	
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P M	37 01	30 119	15	06	9005			1967	10	
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E	M	37 59	00 120	23	00	9000			1887	55	
C0 8375-57	SOUTH BELBRIDGE	575	SEC 28	T28S	R21E	R M	35 27	23 119	42	37	0000			1938	15	
B0 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	E M	37 58	45 120	38	48	0000			1938	24	
B5 8390	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N M	37 30	26 119	37	55	9000			1941	22	
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A M	35 56	02 119	38	46	0000			1959	16	
B3 8457	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H M	38 10	06 120	06	00	0003			1921	55	
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D M	36 09	47 118	42	21	9000			1953	54	
C3 8460	SPRINGVILLE R S	1450	SEC 02	T21S	R29E	B M	36 08	03 118	48	40	9000			1924	54	
C3 8461	SPRINGVILLE TULE HDW	4700	SEC 07	T20S	R31E	C M	36 11	35 118	39	23	9000			1907	54	
C1 8474-80	SCUAW VALLEY FR	1750	SEC 35	T13S	R25E	P M	36 44	58 119	12	21	8006			1961	10	
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L M	38 38	23 120	22	10	9000			1957	55	

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude		Longitude		Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						°	'	°	'						
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E	M 36 56 00	118 35 00	900				1955			10	
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R23E	L M 36 03 00	118 55 00	903				1959			54	
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	O M 37 05 12	119 12 36	900				1960			10	
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J M 35 08 34	119 27 53	900				1940			15	
C7 8755	TAFT KTKR RADIO	1030	SEC 14	T32S	R23E	G M 35 08 50	119 28 18	000				1954			15	
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M M 35 08 00	118 27 00	900				1876			15	
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C M 35 08 05	118 26 31	900				1940			15	
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R19W	H S 35 01 35	118 44 38	900				1895			15	
C5 8957-10	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	F M 36 18 47	120 21 51	000				1959	1970		10	
C2 8912	THREE RIVERS 5 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	O M 36 27 40	118 52 40	900				1909			54	
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K M 36 27 58	118 51 40	900				1940			54	
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C M 36 37 57	120 14 13	000				1953			10	
B6 9020-15	TRIANGLE-DESMOND	3150	SEC 19	T05S	R20E	A M 37 29 10	119 49 06	000				1965			22	
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A M 36 54 05	119 17 16	905				1948			10	
C0 9051	TULARE	293	SEC 01	T20S	R24E	N M 36 12 45	119 19 50	004				1919			54	
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A M 36 04 41	119 47 33	002				1953	1969		15	
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B M 35 09 00	119 01 00	900				1948	1970		15	
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D M 36 09 42	118 42 22	004				1910			54	
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D M 36 08 07	118 47 15	004				1910			54	
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E	M M 36 22 00	118 17 00	900				1945			54	
E3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L M 37 52 30	120 36 12	404				1958			05	
B4 9062-90	TUOLUMNE MAINT YARD	2690	SEC 05	T01N	R16E	R M 37 57 55	120 13 55	000				1969			55	
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E	M 37 53 00	119 20 00	900				1947			55	
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D M 37 29 28	120 51 00	900				1893			50	
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	O M 37 27 52	120 54 39	000				1958			50	
B0 9073-02	TURLOCK 8 WSW	60	SEC 28	T05S	R09E	D M 37 28 22	120 59 30	000				1958			50	
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H M 35 53	118 39	900				1965			54	
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J M 35 32 00	119 16 40	906				1922			15	
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E	M 37 22 00	118 59 00	900				1946			10	
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M M 35 50 24	119 05 12	004				1920			54	
C1 9328	VIDETTE MEADOW	9500		T13S	R33E	M 36 45	118 25	901				1964			10	
C0 9367	VISALIA	354	SEC 29	T18S	R25E	M M 36 19 45	119 17 18	900				1903			54	
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D M 36 19 32	119 13 24	000				1959	1970		54	
C5 9417-10	WALKER BASIN	3450	SEC 10	T29S	R32E	E M 35 25 17	118 32 35	000				1968			15	
C0 9452	WASCO	333	SEC 12	T27S	R24E	J M 35 35 35	119 19 57	900				1899			15	
B5 9482	WAWONA R S	3975	SEC 34	T04S	R21E	F M 37 32	119 40	900				1941			22	
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D M 35 40 00	118 18 00	900				1940			15	
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M M 37 26 58	119 38 59	905				1961			20	
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R M 36 13 38	119 59 40	900				1925			10	
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B M 37 33 00	121 12 00	000				1928			50	
C1 9600	WEST WOODCHUCK	9100	SEC 28	T10S	R28E	M 37 01 48	118 55 06	903				1969			10	
C5 9602	WET MEADOW	8950	SEC 13	T18S	R32E	R M 36 20 56	118 34 16	900				1959			54	
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q M 36 42 05	118 55 56	815				1966			54	
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K M 37 20 12	120 02 18	903				1950			22	
C0 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D M 35 36 10	119 45 10	000				1962			16	
C1 9749	WISHON LAKE	6560	SEC 01	T11S	R27E	M 37 00 40	118 58 20	003				1957			10	
C5 9754	WOFFORD HEIGHTS	2700	SEC 32	T25S	R33E	H M 35 43 00	118 27 00	900				1894			15	
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C M 35 42 02	118 50 34	808				1956			15	
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E	M 37 45 00	119 35 00	900				1904			22	

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.
- NR Data not received before publication.
- RB Record begins.
- RE Record ends.
- INC Incomplete data.

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

TABLE A-2
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY TO JUNE 30	1970												1971						TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT				
SAN JOAQUIN R BASIN																				
SAN JOAQUIN VAL FL 80																				
CASTLE AFB	10.84	0.0	3.0	0.0	1.72	2.29	2.30	0.92	1.41	1.4	1.22	1.7	0.0	T	0.0	0.0	1.46			
DUGA RCH	9.48	0.0	0.0	0.0	1.44	1.61	1.96	0.62	1.16	1.47	1.62	1.14	0.0	T	0.0	0.0	1.46			
ENHAR BARFIELD	11.15	0.0	0.0	0.0	1.64	2.1	2.41	1.79	2.7	1.7	1.1	1.67	0.0	T	0.0	0.0	1.1			
EL SOLYO RCH	11.13	0.0	0.0	0.0	0.52	1.1	2.0	1.32	1.3	1.34	1.9	1.1	0.0	T	0.0	0.0	1.13			
FANCHER RCH CAMP #3	10.30	0.0	0.0	0.0	0.63	2.2	2.7	0.6	1.1	1.1	1.9	1.22	0.0	T	0.0	0.0	1.22			
GUSTINE S SW	10.56	0.0	1.0	0.0	0.16	4.15	2.71	1.85	1.3	1.3	1.7	1.1	0.0	T	0.0	0.0	1.1			
GUSTINE SWYDER	11.06	0.0	0.0	0.0	0.05	4.60	2.84	1.65	1.26	1.1	1.8	1.7	0.0	T	0.0	0.0	1.23			
GUSTINE FOREMOST	11.86	0.0	0.0	0.0	0.23	5.16	2.62	1.41	1.32	1.1	1.9	1.92	0.0	T	0.0	0.0	1.86			
GUSTINE 7 SW	10.78	0.0	0.0	0.0	0.21	4.40	2.33	0.67	1.36	3.07	1.14	1.90	0.0	T	0.0	0.0	1.8			
HILAR	10.74	0.0	0.0	0.0	0.39	4.73	2.20	0.63	1.3	1.09	1.76	1.1	0.0	T	0.0	0.0	1.74			
LE GRAND S W	9.68	0.0	0.0	0.0	1.40	0.47	3.16	2.11	0.49	0.45	1.11	1.57	1.2	0.0	0.0	0.0	1.42			
LIVINGSTON CITY HALL	11.25	0.0	0.0	0.0	T	0.60	1.56	2.89	0.47	1.74	1.25	1.01	1.7	0.0	0.0	0.0	2.2			
LIVINGSTON S W	10.23	0.0	0.0	0.0	0.01	0.58	3.59	2.40	0.46	1.34	1.11	1.38	0.0	T	0.0	0.0	1.21			
LOS BANOS S S	7.16	0.0	0.0	0.0	0.22	2.16	1.99	0.55	1.25	1.59	1.6	1.63	0.0	T	0.0	0.0	1.16			
LOS BANOS FIELD STA	7.66	0.0	0.0	0.0	0.27	2.06	2.12	0.59	1.29	0.65	1.93	1.75	1.0	0.0	T	0.0	1.69			
MADERA ID YARD	8.66	0.0	0.0	0.0	0.09	1.98	2.65	0.42	0.3	0.53	1.98	1.5	0.0	0.0	0.0	0.0	0.6			
MENDOTA 1 NW	6.51	0.0	0.0	0.0	0.25	1.59	1.85	0.14	1.28	1.40	0.97	1.03	0.0	T	0.0	0.0	0.6			
MENDOTA VDL FARMS	6.39	0.0	0.0	0.0	0.10	1.78	1.59	0.24	3.21	0.52	1.1	0.94	0.0	T	0.0	0.0	0.6			
MODESTO FANCHER RCH	10.03	0.0	0.0	0.0	0.61	3.00	2.05	0.62	1.1	1.14	1.16	1.16	0.0	T	0.0	0.0	1.15			
MODESTO KTRB	12.53	0.0	0.0	0.0	0.38	5.61	2.29	0.62	0.53	1.56	1.93	1.61	T	0.0	0.0	0.0	1.25			
OKDALE	14.26	0.0	0.0	0.0	0.55	6.51	2.72	0.70	1.71	1.75	0.66	1.70	T	0.0	0.0	0.0	1.42			
ORESTIMA	12.09	0.0	0.0	0.0	0.39	4.68	2.45	0.62	1.31	1.85	1.19	0.88	0.0	T	0.0	0.0	1.23			
FANCHER WATER DIST	16.62	0.0	0.0	0.0	1.98	1.63	0.35	1.25	0.53	0.69	1.93	1.0	0.0	T	0.0	0.0	6.64			
PATTERSON	12.43	0.0	0.0	0.0	0.38	6.30	2.04	0.59	0.28	0.96	1.19	0.69	0.0	T	0.0	0.0	12.43			
POSD CANAL CO HQ	8.53	0.0	0.0	0.0	0.39	2.52	1.93	0.35	1.21	0.62	1.0	1.44	0.0	T	0.0	0.0	8.91			
RIPON	12.59	0.0	0.0	0.0	0.49	5.66	2.06	0.56	0.75	1.53	1.04	0.50	0.0	T	0.0	0.0	13.74			
SAN LUIS CANAL CO HQ	9.20	0.0	0.0	0.0	0.39	3.72	2.34	0.53	0.34	0.72	0.29	0.87	0.0	T	0.0	0.0	9.25			
SNELLING 3 NW	11.83	0.0	0.0	0.0	0.58	3.75	3.02	0.93	1.54	1.46	0.90	0.65	0.0	T	0.0	0.0	11.83			
SOUTH DOS PALOS	11.34	0.0	0.0	0.0	0.46	3.62	2.49	1.11	1.45	1.42	0.95	0.64	0.0	T	0.0	0.0	11.34			
SOUTH DOS PALOS	7.51	0.0	0.0	0.0	0.28	2.45	1.72	0.47	1.19	0.59	1.74	1.07	0.0	T	0.0	0.0	10.5			
TURLOCK S SW	19.382	0.0	0.0	T	0.60	8.30	3.68	1.60	0.75E	1.90	1.5	0.98	0.0	T	0.0	0.0	19.382			
TURLOCK S NW	22.758	0.0	0.0	0.0	0.30E	5.75	2.44	0.80	0.48	1.16	1.7	1.75	0.0	T	0.0	0.0	22.758			
WESTLEY	10.632	0.0	0.0	0.0	0.41	4.63E	2.02	0.43	1.22	0.94	1.03	0.75	0.0	T	0.0	0.0	10.632			
STANISLAUS RIVER 83																				
ANGELS CAMP	26.53	0.0	0.0	0.08	0.89	10.14	7.39	2.70	0.67	3.08	0.68	0.90	0.16	0.0	0.0	0.0	24			
BRIDGLEY DAM	31.98	0.0	0.0	0.0	0.91	10.71	6.44	2.43	1.16	4.87	1.80	1.27	0.0	0.0	0.0	0.0	31.98			
BEAR VALLEY-ALPINE	31.43	0.0	0.0	0.0	1.67	9.85	5.52	2.46	0.90	4.55	1.63	1.46	1.36	0.12	0.18	0.62	32.26			
COLUMBIA	25.43	0.0	0.0	0.0	0.76	7.07	7.20	3.43	1.02	3.39	1.23	1.32	0.21	0.0	0.0	0.0	25.93			
COLUMBIA	49.912	0.0	0.0	0.0	0.76	8.65	4.71	3.25	0.46	3.24	0.36	0.47E	0.0	0.0	0.0	0.0	49.912			
PINECREST STRAWBERRY	44.24	0.0	0.0	0.0	1.00	13.25	10.22	5.63	2.33	5.43	1.98	3.46	0.89	0.05	0.0	0.0	44.77			
SPRING GAP FOREBAY	35.88	0.0	0.0	0.0	0.84	9.35	9.93	4.38	1.40	6.15	1.65	2.10	0.0	0.0	0.0	0.0	36.31			
TURLOCK DAM	17.43	0.0	0.0	0.0	0.77	6.91	3.91	1.57	0.63	2.39	1.45	0.75	0.85	0.0	0.0	0.0	17.43			
TULOSINE RIVER 84																				
DON PEDRO RESERVOIR	15.26	0.0	0.0	0.0	0.57	4.62	4.60	1.21	0.81	2.10	1.47	0.88	T	0.0	0.0	0.0	15.31			
EARRY INTAKE P H	29.56	0.0	0.0	0.0	0.65	10.36	6.08	2.60	1.31	4.12	1.94	1.52	1.20	0.0	0.0	0.0	31.30			
NOODON MEADOW	38.92E	0.0	0.0	T	0.99	12.00E	10.50E	2.85	2.84	4.79	1.7	3.13	0.25E	0.05E	1.45E	1.22E	40.64E			
LAW ELEANOR	32.08	0.0	0.0	0.0	0.28	11.66	6.49	3.43	1.73	3.62	1.94	1.60	0.53	0.0	0.0	0.0	33.22			
MCCASIN	21.82	0.0	0.0	0.0	0.59	6.90	6.04	2.99	0.77	2.94	1.7	0.89	0.02	0.0	0.0	0.0	22.86			
TULOSINE MAINT YARD	30.47	0.0	0.0	0.0	0.70	9.85	8.88	3.12	0.83	4.48	1.22	1.39	0.15	0.0	0.0	0.0	31.06			
MERCED RIVER 85																				
BEAR VALLEY	18.82	0.0	0.0	0.0	0.37	6.61	5.01	1.56	0.96	2.50	0.49	1.32	0.0	0.0	0.0	0.0	0.53E			
CATREYS VALLEY 3 NW	16.30	0.0	0.0	0.0	0.30	6.10	4.25	1.00	0.90	1.85	1.3	1.80	0.0	0.0	0.0	0.0	17.0			
COUTLEVILLE FFS	20.61E	0.0	0.0	0.0	0.61	7.00E	5.51	1.48	0.72	3.46	1.0	1.13	0.02	0.0	0.0	0.0	21.03E			
GREELEY HILL 1 N	29.96	0.0	0.0	0.0	0.57	9.66	8.67	1.73	1.44	3.08	1.1	1.98	0.0	0.0	0.0	0.0	30.76			
HORNITS ERICKSON RCH	15.26	0.0	0.0	0.0	0.37	5.06	4.32	1.01	0.64	2.20	0.32	1.34	0.0	0.0	0.0	0.0	15.64			
HORNITOS GILES RCH	13.57	0.0	0.0	0.0	0.54	4.88	3.64	0.90	1.52	1.64	0.25	1.22	0.0	0.0	0.0	0.0	13.82			
HORNITOS USCE	12.18E	0.0E	0.0E	0.0E	0.44E	4.55	2.96	0.87	0.49	1.50	0.33	1.04E	0.0E	0.0E	0.0E	0.0E	12.24E			
INDIAN GULCH					RE															
JERSEYDALE O S	28.80	0.0	0.0	0.0	0.43	9.56	8.85	2.42	0.91	2.56	1.23	2.84	0.0	0.0	0.0	0.0	29.42			
MARIPOSA REYNOLDS	22.35	0.0	0.0	0.0	0.39	6.42	7.15	1.61	0.86	2.67	0.73	2.52	0.0	0.0	0.0	0.0	22.7			
MARIPOSA R S	21.4E	0.0	0.0	0.0	0.34	6.70	6.56	1.85	1.30	1.92	0.63	2.10	0.0E	0.0E	0.0E	0.0E	21.92E			
FRESNO-CHOMCHILLA R 86																				
ARWANNE 2 NW	24.62	0.0	0.0	0.0	0.34	6.25	7.72	1.69	1.69	2.72	1.1	3.17	1.03	0.3	0.0	0.0	25.14			
CATREYS VAL STONEHOUSE					RE															
CATREYSOLD	23.47	0.0	0.0	0.0	0.31	6.78	7.10	1.93	1.23	2.35	1.86	2.79	0.0	0.0	0.0	0.0	23.90			
DAULTON	11.14	0.0	0.0	0.0	0.11	2.27	3.56	1.12	1.41	1.32	1.0	1.65	0.0	T	0.0	0.0	11.14			
NIDDEN VALLEY	23.06	T	0.0	0.0	0.34	7.07	7.48	1.50	0.95	2.28	0.7	2.79	T	0.0	0.0	0.0	23.44			
MARIPOSA 8 ESE	24.03	0.0	0.0	0.0	0.33	5.46	7.36	1.11	0.96	2.48	0.4	3.36	0.3	0.0	0.0	0.0	24.03			
RAYMOND 1 SW	22.22E	0.0E	0.0E	0.0E	0.30	6.84	5.28	2.80	1.48	3.23	2.78	2.80	0.0	0.0	0.0	0.0	22.75E			
RAYMOND 3 SW					RE															
RAYMOND 10 W	19.36	0.0	0.0	0.0	0.26	6.47	6.14	1.23	0.87	2.13	0.73	2.16	0.0	0.0	0.0	0.0	19.56			

TABLE A-3
STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1970-71 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	7- 8-70	6-30-71	36.01
LAKE ALPINE	DEPT OF WATER RESOURCES	7- 8-70	6-30-71	62.40
TUOLUMNE RIVER B4				
BEEHIVE MEADOW	HETCH HETCHY WATER SUPPLY	9-15-70	9-14-71	45.56
GRACE MEADOW	HETCH HETCHY WATER SUPPLY	9-17-70		RE
HUCKLEBERRY LAKE	HETCH HETCHY WATER SUPPLY	9-18-70	9-19-71	48.66
LOWER KIBBY RIDGE	HETCH HETCHY WATER SUPPLY	9- 9-70	9-22-71	50.76
PARADISE MEADOW	HETCH HETCHY WATER SUPPLY	9-16-70	9-16-71	48.96
SACHES SPRINGS	HETCH HETCHY WATER SUPPLY	9- 9-70	9-22-71	51.70
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	7- 7-70	6-29-71	27.80
MERCED RIVER B5				
BADGER PASS	NATIONAL PARK SERVICE	9-30-70	9-30-71	49.83
OSTRANDER LAKE	NATIONAL PARK SERVICE	7-15-70		NR
SNOW FLATS	DEPT OF WATER RESOURCES	7- 7-70	6-29-71	43.50
SAN JOAQUIN RIVER B6				
CHIUQUITO CREEK	DEPT OF WATER RESOURCES	7- 6-70	6-28-71	38.50
CLOVER MEADOW	DEPT OF WATER RESOURCES	7- 6-70	6-28-71	38.55
KAISER MEADOW	SO CALIF EDISON COMPANY	10- 6-70	9-29-71	46.13
MAMMOTH POOL	SO CALIF EDISON COMPANY	10- 7-70	9-30-71	30.61
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	10- 7-70	10- 5-71	37.15
VERMILION VALLEY	SO CALIF EDISON COMPANY	10- 5-70	9-29-71	28.80
TULARE LAKE BASIN				
KINGS RIVER C1				
BARTON FLAT	U S CORPS OF ENGINEERS	9-14-70	9-13-71	19.45
DUSY BENCH	DEPT OF WATER RESOURCES	9-12-70	9-11-71	22.86
MORAIN CREEK	U S CORPS OF ENGINEERS	9-16-70	9-15-71	24.30
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-15-70	9-14-71	35.40
STATE LAKES	FRESNO STATE COLLEGE	9-15-70		INC
SUMMIT MEADOW	DEPT OF WATER RESOURCES	7- 9-70	7- 1-71	42.45
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-16-70	9-15-71	23.40
WEST WOODCHUCK	FRESNO STATE COLLEGE			INC
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	9-10-70	9-15-71	33.10
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	9-17-70	9-13-71	37.20
HOCKETT MEADOW	U S CORPS OF ENGINEERS	9-11-70	9-29-71	28.95
GIANT FOREST	U S CORPS OF ENGINEERS	9-16-70	9-15-71	37.20
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	8-11-70	9-28-71	27.60
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	8-27-70	9-27-71	37.25
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	8-27-70	9-16-71	31.75
ROGERS CAMP	U S CORPS OF ENGINEERS	8-27-70	9-28-71	30.15

RE - Record ends.
NR - Data not received before publication.
INC - Incomplete data.

TABLE A-3 (Cont.)
STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1970-71 Season		
		Measurement Period		Precipitation In Inches
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	8-11-70	9-29-71	23.25
CRABTREE MEADOW	DEPT OF WATER RESOURCES	9-11-70	9-17-71	16.00
DOUBLEBUNK MEADOW	U S CORPS OF ENGINEERS	8-26-70		RE
MONACHE MEADOW	DEPT OF WATER RESOURCES	9-16-70	9-14-71	11.10
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	8-24-70	8-16-71	41.10
QUAKING ASPEN	U S CORPS OF ENGINEERS	8-26-70		RE
ROUND MEADOW	U S CORPS OF ENGINEERS	8-25-70	8-17-71	33.10
TUNNEL R S	DEPT OF WATER RESOURCES	9-16-70	9-14-71	12.97
WET MEADOW	U S CORPS OF ENGINEERS	8-12-70	9-29-71	31.60
TULARE LAKE BASIN WESTSIDE C7				
OILFIELD JOAQUIN RDG	DEPT OF WATER RESOURCES	5- 8-70		INC

APPENDIX B
SURFACE WATER MEASUREMENT

INTRODUCTION

This appendix presents surface water data for the 1971 water year, which is from October 1, 1970 to September 30, 1971. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, and corrections and revisions to previously published reports.

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

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

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

1. Water Resources Data for California
Part 1, Surface Water Records
Volume 2: Northern Great Basin and Central Valley
United States Department of the Interior
Geological Survey
Prepared in cooperation with the California Department of Water Resources
and with other agencies.
2. Kings River Watermaster Report
Kings River Water Association
3. Water Supply
Fresno Field Division, U. S. Bureau of Reclamation
4. Bulletin 120, Water Conditions in California, Fall Issue
Department of Water Resources
5. Bulletin 157, Index of Stream Gaging Stations In and Adjacent to California, 1970
Department of Water Resources
This index contains the period of record--with number of years missing--and more information for 800⁺ stations in the San Joaquin Valley area. The index also identifies the agency from which a particular record may be obtained.

ALPHABETICAL INDEX TO TABLES

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

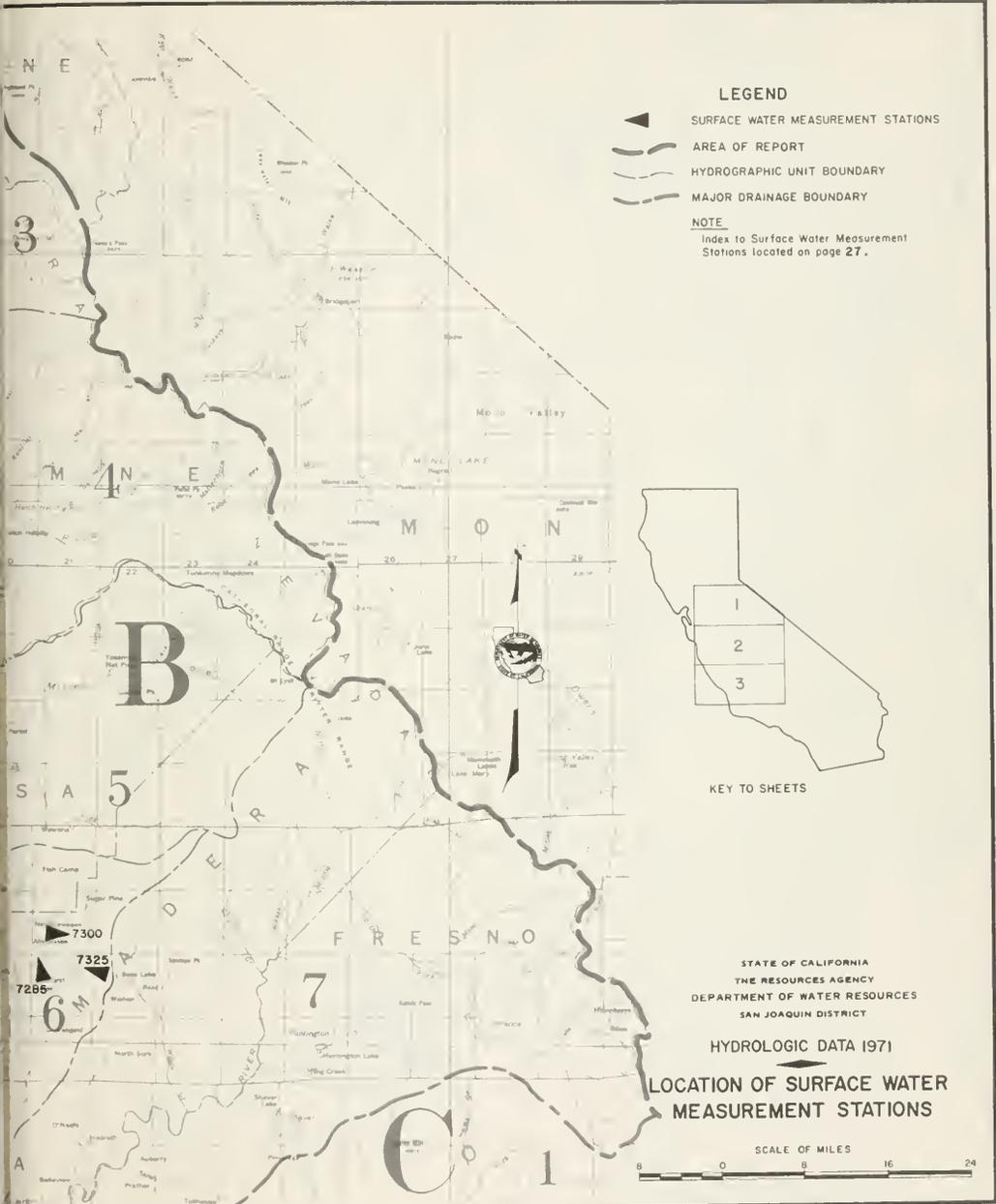
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	Daily Mean Discharge	Daily Mean Gage Height
Bean Creek near Coulterville	61	
Bear Creek below Bear Reservoir	54	
at McKee Road near Merced	55	
at Merced Irrigation District West Boundary	56	
Buena Vista Creek near Taft	90	
Burns Creek below Burns Reservoir	57	
Campbell-Moreland Ditch above Porterville	82	
Chowchilla River near Raymond	49	
West Fork near Mariposa	48	
Cross Creek below Lakeland Canal #2	78	
Delta-Mendota Canal near Tracy	40	
to Mendota Pool	41	
Dry Creek near Modesto	71	110
Eastside Bypass near El Nido	50	
Fresno River Eight Miles West of Madera	47	
Lewis Fork near Oakhurst	44	
Friant-Kern Canal Delivery to Porter Slough	79	
to Tule River	80	
Hubbs-Miner Ditch at Porterville	87	
James Bypass near San Joaquin	39	
Kern River near Bakersfield	89	
Kings River, South Fork, below Empire Weir #2	77	
Mariposa Creek near Catheys Valley	51	
below Mariposa Reservoir	52	
Maxwell Creek at Coulterville	62	
Merced River at Cressey	64	104
below Snelling	63	103
Miami Creek at Highway 49 near Ahwahnee	46	
near Oakhurst	45	
Mustang Creek near Ballico	65	
Orestimba Creek near Crows Landing	66	
Owens Creek below Owens Reservoir	53	
Panoche Drain near Dos Palos	59	
Poplar Ditch near Porterville	86	
Porter Slough at Porterville	83	
Porter Slough Ditch at Porterville	84	
Salt Slough near Stevinson	60	
San Joaquin River at Crows Landing Bridge	43	106
near Dos Palos	67	
at Fremont Ford Bridge	38	100
below Friant	73	113
at Maze Road Bridge	42	
near Mendota	68	105
near Newman	58	107
at Patterson Bridge	58	101
near Stevinson	76	117
near Vernalis	75	116
Stanislaus River at Koetitz Ranch	74	114
at Orange Blossom Bridge	74	115
at Ripon		99
Tulare Lake	81	
Tule River below Porterville	70	109
Tuolumne River at Hickman Bridge	69	108
at La Grange Bridge		111
at Modesto		112
at Tuolumne City	72	
Vandalia Ditch near Porterville	85	
Woods-Central Ditch near Porterville	88	
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Tule River		
IMPORTS AND EXPORTS		98
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UNIMPAIRED RUNOFF		
Annual		35
Monthly		36

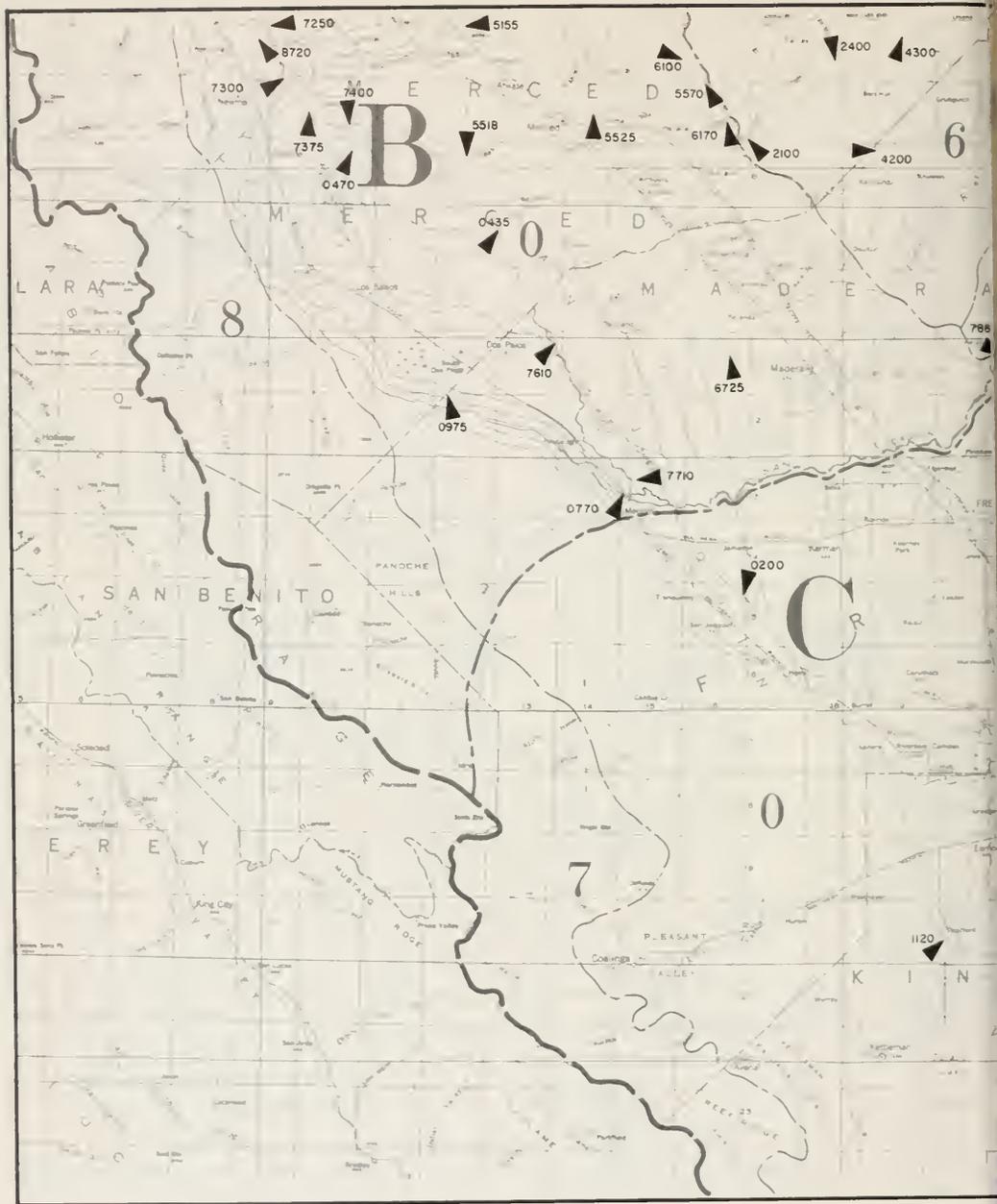
HYDROGRAPHIC AREA AND STREAM BASIN INDEX TO SURFACE WATER MEASUREMENT STATIONS

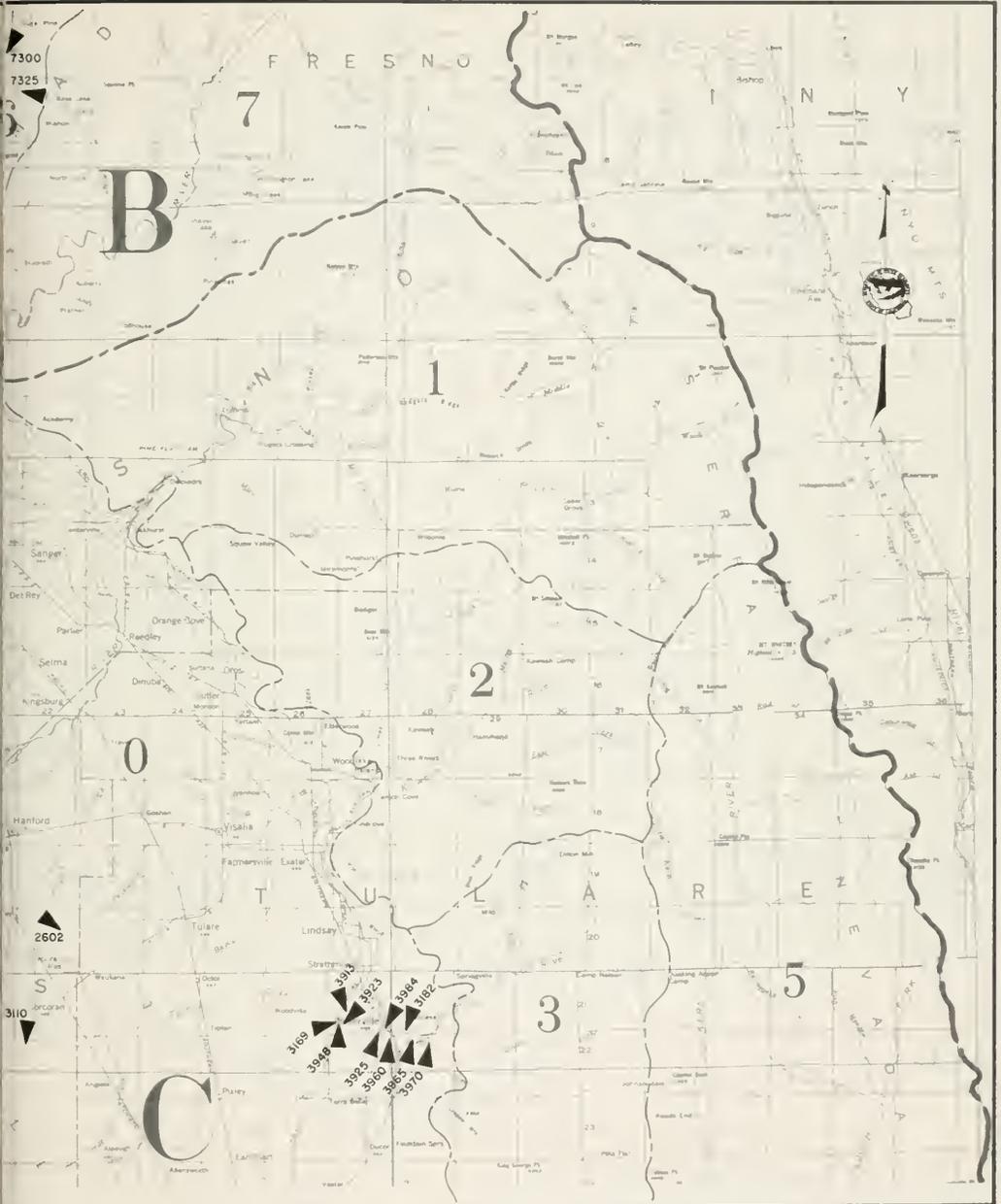
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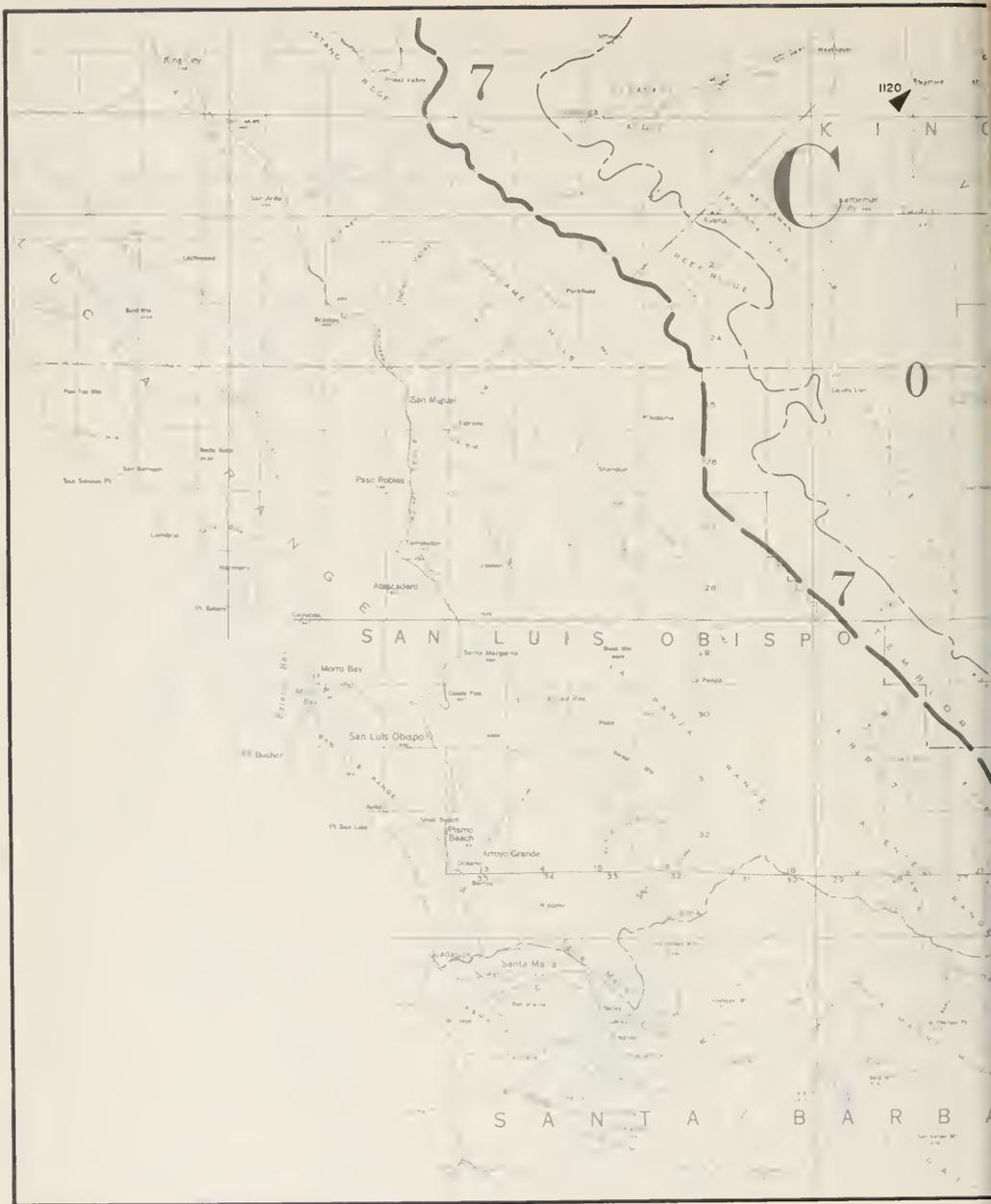
Station Number

	Daily Mean Discharge	Daily Mean Gage Height
<u>HYDROGRAPHIC AREA B</u>		
SAN JOAQUIN VALLEY FLOOR		
B00435	Eastside Bypass near El Nido	50
0470	Salt Slough near Stevinson	60
0525	Mustang Creek near Ballico	65
0770	Delta-Mendota Canal to Mendota Pool	41
0975	Panoche Drain near Dos Palos	59
3115	Stanislaus River at Koeltitz Ranch	75
3125	at Ripon	116
3175	at Orange Blossom Bridge	115
4105	Tuolumne River at Tuolumne City	74
4120	at Modesto	114
4130	Dry Creek near Modesto	72
4150	Tuolumne River at Hickman Bridge	111
4175	at La Grange Bridge	71
5155	Merced River at Cresssey	70
5170	below Snelling	69
5518	Bear Creek at Merced Irrigation District West Boundary	64
5525	at McKee Road near Merced	103
5570	below Bear Reservoir	56
6170	Owens Creek below Owens Reservoir	55
6725	Fresno River Eight Miles West of Madera	54
7020	San Joaquin River near Vernalis	53
7040	at Maze Road Bridge	47
7200	at Patterson Bridge	76
7250	at Crows Landing Bridge	117
7300	near Newman	73
7375	at Fremont Ford Bridge	113
7400	near Stevinson	68
7610	near Dos Palos	67
7710	near Mendota	106
7885	below Friant	105
8720	Orestimba Creek near Crows Landing	102
		101
		43
		42
		38
		66
		100
		62
		61
		57
		52
		51
		49
		48
		46
		45
		44
		40
		39
		77
		76
		81
		83
		79
		80
		87
		88
		86
		85
		82
		84
		89
		90
		99
		89
		90











UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

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

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

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

TABLE 8-1
ANNUAL UNIMPAIRED RUNOFF
In percent of average

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

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(c) Percent figures are preliminary values and subject to revision.

TABLE 8-2
MONTHLY UNIMPAIRED RUNOFF
In percent of average (a)

Month		Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	176	56	66	59	81	61	68	77	85
	Average	8	14	6	16	45	16	4	1	14
November	Percent	158	179	101	126	148	103	101	133	108
	Average	24	45	20	30	119	28	8	4	17
December	Percent	141	142	109	117	129	107	69	73	93
	Average	52	92	46	62	253	54	21	11	28
January	Percent	116	103	88	108	105	102	89	84	108
	Average	67	108	56	69	300	59	22	14	28
February	Percent	86	69	49	75	70	70	61	50	87
	Average	85	140	80	95	400	80	30	19	32
March	Percent	97	86	64	86	84	75	72	43	77
	Average	112	168	90	128	500	106	38	24	49
April	Percent	90	68	64	73	73	71	63	45	57
	Average	196	282	148	236	863	214	64	24	86
May	Percent	79	54	76	68	67	64	64	68	43
	Average	290	446	242	430	1408	429	105	22	145
June	Percent	114	146	108	99	118	81	89	82	63
	Average	179	352	168	369	1069	370	76	10	125
July	Percent	109	99	85	89	95	64	80	92	64
	Average	52	113	48	158	370	150	26	3	63
August	Percent	83	67	39	103	85	70	79	98	70
	Average	13	20	10	46	89	44	7	1	26
September	Percent	29	52	19	119	78	86	65	29	71
	Average	6	8	4	18	36	17	3	0	15
1970-71 Water Year	Percent	98	92	79	85	89	74	73	62	66
	Average	1085	1789	920	1659	5452	1568	404	133	629

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

DAILY MEAN DISCHARGE

The streamflow data shown in Table B-3 are arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

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

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

1. Daily flows - second-feet			
0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand
2. Monthly means - second-feet			
0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
3. Monthly and yearly totals - acre-feet			
0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

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

TABLE B-3

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	807885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55	32	32	33	62	42	39	54	47	102	136	85	1
2	57	33	30	38	66	41	41	54	49	102	129	95	2
3	58	32	32	36	62	41	34	62	49	102	127	88	3
4	60	32	30	34	60	41	38	52	50	102	125	80	4
5	62	32	30	33	58	41	36	44	50	102	125	80	5
6	62	33	30	34	57	41	38	24	52	100	123	80	6
7	65	33	28	34	57	39	38	27	47	100	123	80	7
8	65	32	32	34	57	41	39	42	46	102	121	78	8
9	65	32	32	34	57	41	38	49	44	104	119	80	9
10	65	32	30	36	55	42	46	44	44	102	117	80	10
11	66	33	28	34	52	42	55	41	47	102	123	80	11
12	66	33	28	36	47	44	55	46	46	100	123	80	12
13	66	41	28	42	41	60	55	42	44	100	123	87	13
14	66	62	27	46	41	50	55	41	54	99	123	95	14
15	68	62	27	36	41	47	55	39	83	97	121	99	15
16	68	62	30	34	39	47	55	41	104	104	121	110	16
17	68	65	33	34	41	46	57	41	117	117	117	121	17
18	66	75	30	34	41	47	58	42	165	117	113	121	18
19	68	76	28	34	39	47	50	44	185	119	104	121	19
20	68	80	28	34	39	47	28	42	200	125	102	121	20
21	70	87	44	34	38	46	28	42	212	134	92	121	21
22	63	88	49	34	38	44	28	44	212	132	82	117	22
23	57	88	38	34	39	47	28	42	195	136	80	113	23
24	57	90	36	34	39	47	30	42	192	144	78	113	24
25	57	85	33	34	41	49	30	42	192	147	78	113	25
26	55	71	33	34	39	48	34	42	190	151	78	113	26
27	58	58	34	36	39	46	42	47	168	151	78	108	27
28	52	52	42	41	42	42	47	47	147	147	80	102	28
29	32	32	39	47	38	35	55	47	117	138	78	97	29
30	32	32	33	50	35	35	65	47	102	138	80	92	30
31	32	32	33	57	36	36	47	47	102	136	80	80	31
MEAN	59.6	53.3	32.5	37.0	47.4	44.0	43.2	43.9	108	118	106	98.3	MEAN
MAX.	70	90	49	57	66	60	65	62	212	151	136	121	MAX.
MIN.	32	32	27	33	38	35	28	24	44	97	78	78	MIN.
AC. FT.	3670	3170	2000	2280	2630	2710	2570	2700	6450	7240	6540	5850	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
66.0		270	3.07	6	22	1630	24	1.80	5	6	DAILY MEAN	47810

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

Station located 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-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C00200	JAMES BYPASS NEAR SAN JOAQUIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
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			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 39 06	120 10 45	SW 1 15S 16E									
						MAY 27-DATE					
Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin. James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions. Altitude of gage is 165 feet (from U. S. Geological Survey topographic map). This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period 1953 through 1968 are available from their office in Sacramento. Record since 1969 has been published in the Bulletin No. 130 series of reports.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	895925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY	
1	2593	1147	0	0	0	3963	4458	3403	3722	4607	4494	4028	1	
2	2565	1156	0	0	64	3932	4732	3254	3848	4590	4530	3421	2	
3	2576	1069	0	0	0	3938	4736	2935	3865	4654	4522	2984	3	
4	2672	930	0	0	0	3938	4715	3041	3770	4626	4526	2973	4	
5	2667	941	0	0	0	3942	4729	3008	3843	4705	4543	2988	5	
6	2937	945	0	0	0	3950	4557	3923	3889	4635	4530	2992	6	
7	2802	941	0	0	0	3927	3995	3875	4004	4594	4526	2843	7	
8	2747	941	0	0	0	3889	3942	3825	3801	4548	4565	4507	2600	8
9	2594	941	0	0	0	1960	3496	3658	3264	4615	4459	4485	2626	9
10	2426	1044	0	0	0	2111	3489	3265	3028	4658	4482	4472	2605	10
11	2452	1036	0	0	0	2270	3481	3257	3117	4650	4499	4481	2621	11
12	2438	1140	0	0	0	2196	3547	3100	3160	4644	4538	4486	2516	12
13	2150	713	0	0	0	2520	3766	2915	3179	4586	4585	4490	2562	13
14	2222	668	69	0	0	2546	4614	2881	3146	4522	4520	4497	2604	14
15	2126	317	35	0	0	2544	3672	2630	3207	4556	4552	4489	2580	15
16	2149	0	0	0	0	2676	3476	2636	3263	4619	4573	4493	2764	16
17	2064	69	0	0	0	3050	3584	2378	3320	4618	4578	4497	2755	17
18	2053	105	0	0	0	3087	3509	2301	3348	4626	4571	4495	2761	18
19	1642	0	0	0	0	3519	3527	2323	3945	4650	4552	4491	2758	19
20	1450	0	0	0	0	3971	3512	2331	4172	4629	4518	4370	2754	20
21	1424	0	0	0	0	3972	3965	2322	4193	4656	4591	4365	2758	21
22	1607	0	0	0	0	3956	3509	2452	4189	4650	4599	4284	2737	22
23	1604	0	67	0	0	3994	3462	2566	4179	4648	4593	4162	2743	23
24	1595	0	0	0	0	3931	3518	2782	4342	4597	4582	4090	2736	24
25	1600 a	0	0	0	0	3896	3623	2864 b	4454	4637	4556	4099	2669	25
26	1503	0	0	0	0	3972	3847	3335	4189	4628	4566	4105	2668	26
27	1404	0	0	0	0	3936	3874	3559	4064	4599	4559	4106	2661	27
28	1339	0	0	0	0	3948	4465	3745	3831	4618	4503	4072	2671	28
29	1326	0	0	0	0	3797	3783	3670	3670	4529	4518	4109	2571	29
30	1348	0	68	660	0	4342	3289	3666	3666	4752	4477	4120	2441	30
31	1346	0	0	72	0	4335	3805	3729	3729	4510	4096	2441	2441	31
MEAN	2048	470	7.7	23.6	2312	3805	3335	3610	4439	4563	4372	2780	MEAN	
MAX.	2937	1156	69	660	3994	4614	4736	4454	4752	4705	4543	4028	MAX.	
MIN.	1326	0	0	0	0	3462	2301	2935	3722	4459	4072	2441	MIN.	
AC. FT.	125928	27973	474	1452	128388	233938	198429	221944	264155	280580	268828	165404	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	MAXIMUM					MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
2649						0					1917493

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 45	121 35 05	SW 31 1S 4E								1951	0.00	USGS

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	800770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1614	590	151	0	358	1378	1366	2164	1897	2733	2925	1994	1
2	1605	553	107	0	361	1433	1488	2197	1862	2666	2936	1908	2
3	1634	453	14	0	381	1483	1566	2209	1944	2608	2867	1909	3
4	1710	368	0	0	461	1498	1698	1999	1925	2608	2804	1871	4
5	1685	380	0	0	669	1615	1730	1931	1967	2607	2819	1871	5
6	1712	315	0	0	671	1649	1806	1974	2050	2618	2834	1871	6
7	1651	316	0	0	600	1649	1786	2116	2112	2636	2834	1848	7
8	1601	316	0	0	597	1654	1627	1982	2308	2579	2835	1738	8
9	1537	366	0	0	662	1710	1478	1567	2350	2680	2905	1694	9
10	1409	408	0	0	708	1758	1478	1578	2460	2690	2691	1741	10
11	1270	435	0	0	705	1776	1525	1596	2667	2690	2644	1741	11
12	1311	521	0	0	721	1755	1550	1694	2737	2736	2626	1741	12
13	1168	504	0	0	722	1727	1300	1723	2738	2715	2654	1715	13
14	1033	468	0	0	721	1726	1191	1757	2743	2769	2655	1702	14
15	1002	467	0	0	722	1605	1179	1686	2685	2769	2655	1698	15
16	989	417	0	0	807	1460	1206	1730	2631	2822	2676	1703	16
17	989	410	0	0	1150	1334	1067	1766	2672	2822	2635	1722	17
18	989	371	0	0	1291	1318	1032	1930	2677	2823	2676	1797	18
19	894	366	0	490	1385	1310	989	2043	2678	2913	2803	1797	19
20	767	373	0	555	1534	1309	944	2156	2677	2842	2823	1803	20
21	660	373	0	215	1535	1309	979	2202	2805	2709	2745	1799	21
22	643	373	0	115	1525	1394	1134	2220	2783	2735	2745	1784	22
23	657	381	0	80	1426	1512	1188	2222	2814	2661	2728	1933	23
24	657 a	382	0	80	1362	1531	1389 b	2263	3024	2681	2463	1744	24
25	657	384	0	115	1306	1474	1449	2268	2882	2707	2320	1745	25
26	641	324	0	212	1295	1292	1597	2097	2880	2759	2350	1745	26
27	596	215	0	315	1295	1114	1833	1999	2805	2814	2394	1730	27
28	598	195	0	350	1295	1113	2114	1880	2870	2818	2323	1617	28
29	609	194	0	350		1127	2094	1792	2760	2716	2323	1585	29
30	569	192	0	350		1203	2078	1792	2743	2780	2158	1503	30
31	569		0	350		1235		1823		2816	2050		31
MEAN	1079	380	8.8	115	938	1466	1460	1947	2538	2727	2642	1768	MEAN
MAX.	1712	590	151	555	1535	1776	2114	2268	3024	2913	2936	1994	MAX.
MIN.	569	192	0	0	358	1113	944	1567	1862	2579	2050	1503	MIN.
AC.FT.	66354	22632	540	7095	52097	90152	86883	119716	151036	167649	162441	105223	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					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1425						0					1031818

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECDRD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
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.						JUL 51-DATE					

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	807710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	230	168	170	5	12	200	184	319		481	488	381	1
2	226	170	169	7	11	227	186	324		481	490	387	2
3	222	172	169	6	11	227	182	328		478	495	381	3
4	218	171	169	4	11	222	202	332		476	498	365	4
5	213	170	169	4	11	216	218	334		476	500	345	5
6	210	175	168	4	12	215	215	334		476	505	348	6
7	205	176	168	4	13	215	220	334		478	507	348	7
8	201	176	168	4	13	227	226	310		498	507	350	8
9	196	178	167	3	14	242	228	286		514	512	356	9
10	193	180	167	2	14	248	230	286		522	514	359	10
11	188	179	166	2	13	280	234	298		522	517	361	11
12	184	175	165	2	13	306	246	308		517	522	361	12
13	180	169	165	2	13	280	254	300		507	524	359	13
14	177	169	166	2	13	268	236	320		493	526	352	14
15	176	169	216	2	12	274	212	330		478	531	356	15
16	176	169	233	2	30	282	212	330		481	534	363	16
17	175	169	187	2	50	286	214	330		488	536	359	17
18	175	169	165	2	64	282	215	322		493	502	352	18
19	175	169	163	11	83	270	216	322		490	502	354	19
20	174	169	153	13	88	262	215	332		483	500	354	20
21	173	171	146	15	88	258	214	334		478	500	345	21
22	173	173	142	16	94	260	218	337		481	500	334	22
23	172	173	138	16	110	262	222	341		478	438	330	23
24	172	173	136	16	118	260	230	345		481	427	324	24
25	171	173	133	15	122	250	250	363		486	440	324	25
26	170	172	130	15	122	216	258	381		476	392	324	26
27	170	172	128	15	119	209	278	378		466	378	330	27
28	170	172	127	14	118	194	310	356		476	378	348	28
29	169	170	126	13		182	314	354		488	381	345	29
30	169	170	124	12		184	306	354		483	385	322	30
31	168		124	12		184		354		483	378		31
MEAN	186	172	159	7.8	49.7	242	232	331	429E	487	478	351	MEAN
MAX.	230	180	233	16	122	306	314	381	NR	522	536	387	MAX.
MIN.	168	168	124	2	11	182	184	286	NR	466	378	322	MIN.
AC.FT.	11450	10240	9750	480	2760	14850	13780	20380	25510E	29970	29370	20860	AC.FT.

Recorder out of order -- Record of flow from
 San Luis Canal Company deliveries.

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

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	
262	538	4.26	8 17 2350	2	1.48	1 10 1200	189400

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
			CF5	GAGE HT.	DATE			FROM	TO		
36 48 37	120 22 35	SW 7 13S 15E	11740a 8840	13.75	6-20-41 6- 1-52	OCT 39-DATE		1939 1954	1953	142.53 140.53	USBR USBR

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

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	807610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0			12	8	0	0	12	12	9	1
2			0			12	12	0	0	12	12	12	2
3			0			12	3	0	0	12	12	12	3
4			0			7	0	0	0	12	12	12	4
5			0			9	0	0	0	12	12	12	5
6			0			5	0	0	0	12	12	12	6
7			0			0	0	0	9	8	12	4	7
8			0			9	0	0	12	9	12	9	8
9			0			12	0	0	12	12	12	12	9
10			0			12	9	0	12	12	12	12	10
11			0			12	7	0	12	12	12	10	11
12	N	N	0	N	N	12	0	0	12	12	12	0	12
13	O	O	0	O	O	12	0	0	3	12	7	0	13
14			4			0	0	0	8	12	4	0	14
15			0			0	0	0	3	12	0	0	15
16	F	F	122	F	F	0	0	0	12	12	9	0	16
17	L	L	154	L	L	0	0	0	12	12	12	0	17
18	O	O	48	O	O	0	0	0	12	12	12	0	18
19	W	W	0	W	W	0	0	0	12	12	12	0	19
20			0			5	0	9	12	12	12	0	20
21			0			0	8	12	12	12	12	0	21
22			0			12	7	3	8	12	12	0	22
23			0			7	9	0	9	12	12	0	23
24			0			0	5	0	12	12	12	0	24
25			0			0	0	9	8	7	12	0	25
26			0			0	7	12	9	9	12	0	26
27			0			0	12	12	8	12	12	0	27
28			0			0	7	12	0	12	8	0	28
29			0			0	0	3	9	12	0	0	29
30			0			0	0	0	12	12	9	0	30
31			0			0	0	0	12	12	8	0	31
MEAN			10.6			4.9	3.1	2.3	7.6	11.5	10.6	3.9	MEAN
MAX.			154			12	12	12	12	12	12	12	MAX.
MIN.			0			0	0	0	0	7	0	0	MIN.
AC.FT.			650			303	186	143	450	710	650	230	AC.FT.

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

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
4.6		178	2.63	12	17	0100	0		10	1	0000	3322

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 38	120 30 02	N½12 11S 13E	8920a 8200	10.52b	6-24-41 6-5-52	OCT 40-DATE		1945	1944	116.5	USED

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

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	867325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.1	15	49	34	53	45	93	95	94	34	6.8	4.6*	1
2	5.1	13	122 *	35	52	42 *	93	96	97 *	33	5.8	4.3	2
3	5.1	13	43	25	48	45	94	105	92	32	5.7*	4.4	3
4	5.7	16	40	31	45	45	98	101	88	29	5.0	4.2	4
5	6.4	41	37	31	43 *	41	98	97	89	27	5.0	4.1	5
6	5.6*	30 *	33	32	43	40	97 *	102	90	26	5.1	4.6	6
7	9.2E	24	37	32	42	42	98	118	95	24 *	4.8	5.1	7
8	9.2E	18	51	31	42	43	96	117	95	24	5.3	4.3	8
9	9.2E	16	63	31	43	44	97	105	97 #	26	4.4	4.1	9
10	9.2E	15	40	32	44	45	98	105	97 E	27	3.9	3.8	10
11	9.2E	14	33	33	51	46	100	111	97 E	25	3.7	3.7	11
12	9.2E	19	31	40	56	64	100	124	95 E	25	3.1	3.8	12
13	9.2E	16	30	34	58	80	101	122	95 E	24	3.0	3.9	13
14	9.2E	14	28	38	59	60	100	127	95 E	23	2.9	3.9	14
15	9.2E	14	27	41	60	58	108	127	95 E	18	3.0	3.9	15
16	9.2E	13	40	40	61	61	112	125	95 E	17	4.0	3.7	16
17	6.6	12	35	49	61	60	118	122	93 #	19	4.3	4.4	17
18	6.8	13	31	60	56	63	111	120	91 E	19	5.1	4.8	18
19	7.6	13	34	73	58	66	108	119	86 E	18	4.7	4.3	19
20	10	13	31	81	45	68	99	121	82 E	18	3.9	4.3	20
21	14	12	40	72	45	74	75	122	78 E	17	3.6	3.5	21
22	14	12	36 *	60	47	79	69	116	74 E	17	4.0	3.5	22
23	15	11	30	53	43	84	67	111	70 E	16	4.7	3.5	23
24	15	11	27	49	44	81	66	106 *	66 E	16	5.0	3.6	24
25	14	59	30	46	44	98	65	101	62 #	17	5.5	4.2	25
26	14	122	31	47	41	178	64	102	57	16	5.4	5.5	26
27	14	50	44	49	37	142	62	111	47	15	7.5	5.0	27
28	14	49	38	52	41	108	64	115 *	41	15	5.1	4.9	28
29	14	125	35	53	64	103	64	99	38	15	4.5	4.9	29
30	12	57	34	54	54	99	75	97	36	14	4.5	7.3	30
31	12		35	55		96		94		13	4.6		31
MEAN	9.9E	28.3	39.2	44.9	48.6	71.0	89.7	111	80.9E	21.3	4.6	4.3	MEAN
MAX.	15	125	122	81	61	178	118	127	97 E	34	7.5	7.3	MAX.
MIN.	5.1	11	27	25	37	40	62	94	36	13	2.9	3.5	MIN.
AC. FT.	611E	1686	2410	2763	2701	4364	5336	6809	4814E	1307	285	258	AC. FT.

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

MEAN DISCHARGE	DISCHARGE	MAXIMUM			MINIMUM				TOTAL		
46.1	279	DATE	MO	DAY	TIME	DISCHARGE	DATE	MO	DAY	TIME	ACFE FEET
		2-1-63	3	26	1945	2.5	8-12-1530	8	12	1530	33340

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE		1961		0.00	LOCAL

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY	
1	0.8	1.4	12	6.5	10	8.4	15	8.1	6.2	3.1	1.3	0.9*	1	
2	0.7	1.3	29	6.5	9.6	8.5*	14	8.0	6.0*	3.0	1.3	0.9	2	
4	0.7	1.3	9.6	5.7	8.9	7.8	14	9.7	5.8	2.9	1.3*	1.0	2	
4	0.8	1.6	7.9	5.7	8.4	7.9	14	10	5.6	2.8	1.1	1.0	4	
5	0.8	7.4	7.3	5.5	8.2*	7.6	14	9.0	5.4	2.8	1.1	0.9	5	
6	0.8*	5.1	6.7	5.0	8.0	7.5	13	9.3	5.2	2.7	1.1	1.1	6	
7	0.9	5.3	7.1	5.3	7.9	7.4	13	11	5.0	2.6*	1.1	1.5*	7	
8	0.9	2.9	9.9*	5.4*	7.9	7.6	12	12	4.8	2.5	1.1	1.2	8	
9	0.9	2.3*	16	5.2	8.0	7.8	12	9.5	4.7	2.5	1.1	1.0	9	
10	0.9	2.1	9.5	5.2	8.3	8.2	12	9.1	4.7	2.4	1.1	0.9	10	
11	0.9	2.0	7.3	5.3	9.2	8.4	11	8.9*	5.0	2.4	1.1	0.9	11	
12	0.9	2.5	6.3	6.7	10	11	11	11	4.8	2.4	1.1	0.8	12	
13	0.9	2.3	5.7	5.2	11	17	11	11	9.0	4.6	2.3	1.1	0.7	12
14	0.9	2.0	5.3	6.4	11	12	11	11	8.4	4.4	2.1	1.0	0.7	14
15	0.9	1.9	5.1	6.3	11	11	10	8.0	4.3	2.1	1.0	0.7	15	
16	1.0	1.8	6.8	6.3	12	11	10	7.3	4.1	2.0	1.0	0.7	16	
17	0.9	1.7	6.4	8.7	11	11	12	6.9	3.8	2.2	0.9	0.7	17	
18	1.0	1.7	5.7	13	10	11	11	6.7	3.6	2.4	0.9	0.7	18	
19	1.0	1.8	5.9	16	11	11	10	6.5	3.5	2.1	0.9	0.8	19	
20	1.2	1.8	5.5	17	11	11	10	6.3	3.4	1.9	0.9	0.8	20	
21	1.5	1.7	5.9	14	11	12	9.7	6.2	3.4	1.9	0.9	0.7	21	
22	1.5	1.7	5.7	11	9.7	12	9.1	6.4	3.3	1.8	0.9	0.7	22	
22	1.5	1.7	5.2	10	13	8.5	8.8	6.1	3.3	1.7	1.0	0.7	22	
24	1.6	1.8	5.1	9.7	8.5	12	8.5	5.8	3.1	1.7	1.0	0.7	24	
25	1.6	11	5.2	9.0	8.5	14	8.5	5.6	3.1	1.6	1.0	0.8	25	
26	1.4	21	5.2	8.9	8.1	39	8.3	5.6	3.1	1.2	0.9	1.0	26	
27	1.4	6.4	8.0	9.5	7.8	36	8.0	7.3	3.5	1.1	0.9	1.0	27	
28	1.5	6.2	7.1	9.9	8.2	22	7.9	8.8	3.5	1.1	0.9	1.0	28	
29	1.4	21	6.5	10	10	19	8.1	7.8	3.3	1.3	0.9	1.0	29	
30	1.4	12	6.3	10	18	18	8.1	7.1	3.2	1.4	0.9	1.5	30	
31	1.4	12	6.3	10	16	16	8.1	6.6	3.2	1.4	0.9	1.5	31	
MEAN	1.1	4.5	7.8	8.4	9.4	13.1	10.8	8.0	4.3	2.1	1.0	0.9	MEAN	
MAX.	1.6	21	29	17	12	39	15	12	6.2	3.1	1.3	1.5	MAX.	
MIN.	0.7	1.3	5.1	5.0	7.8	7.4	7.9	5.6	3.1	1.1	0.9	0.7	MIN.	
AC.FT.	67	267	479	514	521	805	645	492	253	130	63	54	AC.FT.	

E - ESTIMATED

NB - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
5.9	79	4.24	3	26	1945	0.6	2.46	9	15	1630	4290

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

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1971	B67285	MIAMI CREEK AT HIGHWAY 49 NEAR AHWAHNEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	1.1	17	14	15	14	20	7.6	9.3	2.9			1
2	0.0	1.1	52 *	15	15	13	19	8.3	9.0*	3.3			2
3	0.0	1.1	19	12	13	13	18	13	13	2.1			3
4	0.0	1.7	10	11	13	13	18	14	10	1.9			4
5	0.0	2.4	8.2	9.9	12 *	12	18	12	9.4	1.6			5
6	0.0 *	5.3*	6.4	10	12	11	17 *		5.3	1.5			6
7	0.0	3.9	6.1	10	12	11	17	16 *	5.1	1.6*			7
8	0.3	3.0	9.9	9.9	12	11	16	23	3.2	1.4			8
9	0.3	2.4	26	9.2	12	11	15	17	3.9*	1.5			9
10	0.2	2.2	15	8.9	12	11	15	15	5.9	0.8			10
11	0.2	2.2	11	9.6	13	12	15	16	8.2	2.2			11
12	0.2	2.5	8.4	17 *	14	15	14	17	9.5	1.8	N	N	12
13	0.1	2.7	6.6	20	14	31	14	16	6.2	1.5	O	O	13
14	0.2	2.4	5.6	16	14	21	14	19	4.5	1.2			14
15	0.4 *	2.3	5.2	16	15	19	13	21	3.7	0.9			15
16	0.3	2.4	17	15	15	17	13	19	3.0	0.9	F	F	16
17	0.5	2.4	20	19	17	17	17	15	3.0*	1.2	L	L	17
18	0.3	2.4	13	26	16	16	16	15	3.9	2.9	O	O	18
19	0.2	2.3	14	31	16	16	14	17	4.1	4.9	W	W	19
20	0.2	2.4	13	32	14	16	14	28	4.2	5.4			20
21	0.2	2.5	27	26	13	16	14	37	5.3	3.1			21
22	0.3	2.5	21 *	20	13	16	12	40	3.3	1.7			22
22	0.8	2.5	15	18	12	17	9.1	41	2.3	1.1			22
24	1.3	2.7	13	16	12	16	8.4	38	1.0	0.3			24
25	1.2	6.7	12	15	12	18	8.8	31	1.6*	0.7			25
26	1.1	29	12	15	11	38	9.0	27	5.0	0.8			26
27	1.0	14	22	15	12	61	8.2	26	5.4	8.0			27
28	1.1	10	23	16	13	31	8.1	18 *	4.7	4.7			28
29	1.1	34	17	16	16	26	7.8	5.9	3.9	5.2			29
30	1.1	24 *	15	16	16	24	7.9	1.7	2.6	2.3			30
31	1.1		14	16	16	22		2.5		0.4			31
MEAN	0.4	5.9	15.3	16.2	13.4	18.9	13.7	19.0	5.3	2.3			MEAN
MAX.	1.3	34	52	32	17	61	20	41	13	8.0			MAX.
MIN.	0.0	1.1	5.2	8.9	11	11	7.8	1.7	1.0	0.3			MIN.
AC.FT.	27	349	941	993	742	1160	814	1168	316	140			AC.FT.

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

MEAN	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
9.2	100	2.69	3	26	2400	0.0		10	1	0000	6651

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 20 50	119 43 00	SW 6 7S 21E	913E	8.24	1-16-70	OCT 69-DATE		1969		0.00	LOCAL

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	55.8	57.6	0		0					1
2			27.5	55.8	55.8	0		0					2
3			105	54	48.6	0		0					3
4			95	54	41.8	0		0					4
5			40	45	29	0		0					5
6				28	40.2	28.5		0					6
7				25	35.4	28.5		0					7
8				25	30.6	28.5		0					8
9				35	30.6	17		0					9
10				40	29	17		0					10
11				28	29	16		0					11
12	N	N	22.6	30.6	15.5	0	N	0	N	N	N	N	12
13	O	O	19.1	59.4	20.5	0	O	3.5	O	O	O	O	13
14			21.9	131	24	45		14.5					14
15			20.5	129	21.9	17.7		3.5					15
16	F	F	22.6	98.8	22.6	0	F	0	F	F	F	F	16
17	L	L	27.5	88.5	21.9	0	L	0	L	L	L	L	17
18	O	O	75	85.1	3	0	O	0	O	O	O	O	18
19	W	W	74	102.4	5	0	W	0	W	W	W	W	19
20			50	104.2	7.8	0		0					20
21				62	109.6	0		0					21
22				157	106	0		0					22
23				130	73.2	0		0					23
24				95	68.1	0		0					24
25				67	55.8	0		0					25
26				55	57.6	0		0					26
27				48	57.6	0		0					27
28				60	57.6	0	20.5	0					28
29				90	57.6	0	28.5	0					29
30				73	57.6	15.5	0	0					30
31				60.4	57.6	12	0	0					31
MEAN			54.2	66	18.2	4.5		0.7					MEAN
MAX			157	131	57.6	45		14.5					MAX
MIN.			0	29	0	0		0					MIN.
AC. FT.			3330	4060	1013	276		43					AC. FT.

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

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
12.0	185	2.22	12	22	0800	0		10	1	0000	8721

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & W	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE NT.	DATE			FROM	TO			
36 58 30	120 12 12	NE 15 11S 16E						1936-SEP 40	1936	0.00	LOCAL	
								OCT 41-SEP 42				
								JUL 44-DATE				

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B64300	WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	15	11	10	10	8.3*	3.7	3.3*	0.2			1
2		0.1	105	13	9.7	8.6	7.7	4.2	3.1	0.2			2
3		0.1	24	8.5	9.1	7.9	7.0	13	3.0	0.1			3
4		0.1*	7.0	7.3	8.8*	8.2*	6.4	13	2.7	0.1			4
5		0.1	4.0	6.6	8.8	7.3	6.0	7.9	2.5	0.0			5
6		0.1	2.8	5.9*	8.8	6.4	5.8	6.8	2.2	0.0*			6
7		0.1	2.3	8.8	8.4	6.2	6.3	13	2.0	0.0			7
8		0.1	3.4	8.6	8.0	6.0	5.9	27	1.9	0.0			8
9		0.1	14	8.4	7.6	5.7	5.7	12	1.7	0.0			9
10		0.1	4.8	7.9	7.5	5.5	5.4	8.5*	1.7	0.0			10
11		0.1	3.1	8.6	7.4	5.5	5.1	7.1	1.7	0.0			11
12	N	0.1	2.4	48	7.1	18	5.1	6.0	1.5	0.0	N	N	12
13	O	0.1	2.0	83	6.9	59	5.0	5.2	1.3	0.0	O	O	13
14		0.1	1.7	51	6.8	19	5.3	5.0	1.1	0.0			14
15		0.0	1.4	37	6.7	15	5.3	4.6	1.0	0.0			15
16	F	0.0	13	29	6.7	12	4.6	4.2	0.9*	0.0	F	F	16
17	L	0.0	29	33	8.7	11	8.4	3.9	0.7	0.0	L	L	17
18	O	0.0	16	36	7.3	9.6	8.2	3.7	0.6	0.0	O	O	18
19	W	0.0	21	32	10	8.7	6.1*	3.6	0.6	0.0	W	W	19
20		0.0	13	29	9.8	8.1	5.4	3.3	0.5	0.0			20
21		0.0	83	25	7.2	7.3	5.6	3.2	0.5	0.0			21
22		0.0	46	21	7.0	6.7	4.8	3.3	0.4	0.0			22
23		0.0	24	18	6.9	6.6	4.4	3.1	0.3	0.0			23
24		0.0	15	16	6.3	6.8	4.3	2.7	0.3	0.0			24
25		1.1	9.9	14	5.9	8.2	4.5	2.4	0.3	0.0			25
26		4.6	19	14	5.5	21	4.6	2.4	0.3	0.0			26
27		2.3	48	13	6.1	28	4.4	4.5	0.3	0.0			27
28		2.7	26	12	9.1	13	4.2	8.1	0.4	0.0			28
29		34	17	12		11	3.9	5.1	0.4	0.0			29
30		25	13	11		9.8	3.9	4.2	0.3	0.0			30
31			11	11		8.7		3.6					31
MEAN		2.4	19.3	20.6	7.8	11.8	5.6	6.4	1.3	0.0			MEAN
MAX.		34	105	83	10	59	8.4	27	3.3	0.2			MAX.
MIN.		0.0	1.4	5.9	5.5	5.5	3.9	2.4	0.3	0.0			MIN.
AC. FT.		141	1184	1269	433	724	332	393	74	1			AC. FT.

ε - 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	269	4.96	12	2	1015	0.0		10	1	0000	4551

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. W.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE		1957		0.00	LOCAL

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	864200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	98	87 E	63 E	4E	54 *	26 E	26 #	3.7			1
2		0.0	247	85 E	61 E	46	50 E	25 E	23 E	3.6			2
3		0.0	198	80 E	59 E	43	47 E	28 E	22 E	3.2			3
4		0.0	74	68 E	55 *	44 *	44 E	45 E	20 E	3.0			4
5		0.0	60	63 E	53	43	43 E	45 E	18 E	2.8			5
6		0.0*	46 E	60 E	53	40	42 E	40 E	17 E	2.5			6
7		2.3	40 E	56 E	52	38	41 E	40 E	15 E	2.2			7
8		5.1E	50 E	55 E	50	38	40 E	60 E	14	1.8			8
9		5.3#	70 E	55 E	48	38	39 E	70 E	13	1.6			9
10		5.0E	80 E	52 E	47	38 E	37 E	50 #	13	1.4			10
11		4.5E	60 E	52 #	47	40 E	36 E	46 E	12	1.2			11
12		3.8E	50 E	105	47	50 E	35 E	50 E	11	1.0	N	N	12
13	N	4.3E	38 E	196	46	120	34 E	45 E	10	0.8	O	O	13
14	O	4.4E	35 E	190	46	95 E	34 E	36 E	9.5	0.6			14
15		4.7E	31 E	136 E	46	65	33 E	34 E	9.1	0.3			15
16		4.6E	50 E	113	46	58	32 E	31 E	8.9*	0.1	F	F	16
17	F	4.6E	199 E	110 E	48	57 E	38	27 E	8.1	0.0	L	L	17
18	L	4.6E	151	130 E	53	54 E	53	25 E	7.0	0.1	O	O	18
19	O	4.6E	110	130 E	55	51 E	46 E	24 E	6.4	0.0	W	W	19
20	W	4.7E	123	130 E	60	46	42 E	23 E	6.2E	0.0			20
21		4.8E	258	120 E	50	44	39 E	22 E	5.8E	0.0			21
22		4.8E	263	108 E	46	43	37 E	21 E	5.5E	0.0			22
23		4.8E	139 *	96 E	44	41	35 E	20 E	5.0E	0.0			23
24		4.8E	102	87 E	42	42	33 E	19 E	4.0#	0.0			24
25		7.0E	84	80 E	40	41 E	32 E	17 E	3.8	0.0			25
26		38 E	74 E	76 E	38	50 E	32 E	16 E	4.0	0.0			26
27		65 E	90 E	73 E	37	126	32 E	20 E	4.1	0.0			27
28		35 E	160 E	71 E	43	87 E	30 E	35 E	3.8	0.0			28
29		50 E	128	70 E	43	72 E	29 E	40 E	4.5	0.0			29
30		189 #	102	68 E	43	62 E	28 E	30 E	4.0	0.0			30
31			89	66 E	43	56 E	28 E	25 E	4.0	0.0			31
MEAN		15.5E	106 E	92.5E	49.1	55.4E	38.2E	33.4E	10.5E	1.0			MEAN
MAX.		189 E	263	196	63 E	126	54	70 E	26 E	3.7			MAX.
MIN.		0.0	31 E	52 E	37	32	28 E	16 E	3.8	0.0			MIN.
AC. FT.		924E	6543E	5689E	2727	3404E	2275E	2053E	622E	59			AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- EAND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	PERIOD OF RECORD			MINIMUM	TOTAL				
		GAUGE HT.	MO.	DAY	TIME		GAUGE HT.	MO.	DAY	TIME	ACRE FEET
33.6E	531	572.55	12	2	1900	0.0		1	1	0000	24300E

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 15 36	119 56 42	SE 1 8S 18E	13760	586.44	2-24-69	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 as a flood warning station and is equipped with a telemark. Records for some years are insufficient for publication. Drainage area is 201.7 square miles. Estimated days determined by comparison with Chowchilla River at Buchanan damsite. There are no upstream impairments. Operation of this station discontinued by Department of Water Resources on 9-30-71 and will be operated by the U. S. Geological Survey.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B00435	EASTSIDE BYPASS NEAR EL NIIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	60	15 E								1
2	*	*	0.0	43	10 E								2
3			0.0*	30 E	7.0#	*			*				3
4			0.0	18 #	6.0E						*		4
5			0.0	17 E	5.0E		*						5
6			0.0	16 E	4.0E								6
7			0.0	15 E	4.0E					*			7
8			0.0	14 E	3.0E								8
9			0.0	13 E	2.0E								9
10			0.0	12 E	1.0E								10
11			0.0	11 E	0.0								11
12	N	N	0.0	10 E	0.0	N	N	N *	N	N	N	N	12
13	O	O	0.0	9 E	0.0	O	O	O	O	O	O	O	13
14			0.0	8 E	0.0								14
15			0.0	7 E	0.0	*			*				15
16	F	F	0.0	50 E	0.0	F	F	F	F	F	F	F *	16
17	L	L *	161	91	0.0	L	L	L	L	L	L	L	17
18	O	O	192	77	0.0	O	O	O	O	O	O *	O	18
19	W	W	121	56	0.0	W	W *	W	W	W	W	W	19
20			77	57 *	0.0					*			20
21			35 #	72	0.0								21
22			25 E	63	0.0*								22
23			137	59 E	0.0								23
24			106	54 E	0.0								24
25			72	49 E	0.0			*					25
26			96	44 E	0.0								26
27			78	39 E	0.0								27
28			50 E	35 E	0.0								28
29			30 E	30 E									29
30		*	119	24 E									30
31			91	20 E									31
MEAN			44.8	35.6E	2.0E								MEAN
MAX.			192	91	15 E								MAX.
MIN.			0.0	7 E	0.0								MIN.
AC.FT.			2757	2188E	11.5E								AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - END *

MEAN		MAXIMUM			MINIMUM			TOTAL			
DISCHARGE	DISCHARGE	DATE HT.	MO.	DAY	TIME	DISCHARGE	DATE HT.	MO.	DAY	TIME	ACRES FEET
7.0E	21B	8.84	12	23	1400	0.0		10	1	0000	5058E

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 08 52	120 36 17	SR13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE		1964		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. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	862400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	41	25	12	10	8.5*	4.8	3.0*	0.1			1
2		0.0	181	26	12	8.5	7.9	4.9	2.7	0.1			2
3		0.0	51	22	12	7.7	7.4	6.9	2.5	0.0			3
4		0.0	22	19	8.4*	7.6*	6.9	9.1	2.2	0.0			4
5		0.0	16	18	11	7.2	6.6	7.9	1.9	0.0			5
6		0.0	12	17	*	11	6.8	7.0	7.2	1.7	0.0*		6
7		0.0	11	16	10	10	6.6	6.5	8.6	1.5	0.0		7
8		0.0	13	16	10	6.6	6.1	17	1.3	0.0			8
9		0.0*	41	15	10	6.4	5.8	11	1.2	0.0			9
10		0.0	22	15	9.8	6.3	5.6	8.5*	1.1	0.0			10
11		0.0	16	14	9.6	6.2	5.4	7.2	1.0	0.0			11
12	N	0.0	13	44	9.2	8.9	5.3	6.4	0.9	0.0	N	N	12
13	O	0.0	12	86	9.0	34	5.2	5.7	0.8	0.0	O	O	13
14		0.0	10	74	8.9	16	5.4	5.3	0.7	0.0			14
15		0.0	9.5	55	8.9	13	5.6	4.9	0.6	0.0			15
16	F	0.0*	39	41	8.5	11	5.4	4.5	0.5*	0.0	F	F	16
17	L	0.1	98	34	9.4	10	6.2	4.2	0.5	0.0	L	L	17
18	O	3.2	53	29	8.8	9.8	7.3	4.0	0.4	0.0	O	O	18
19	W	3.8	75	26	10	8.1	6.3*	3.7	0.4	0.0	W	W	19
20		3.9	56	24	11	8.2	5.5	3.6	0.3	0.0			20
21		4.0	345	21	9.0	7.7	5.5	3.4	0.3	0.0			21
22		4.2	169	20	8.5	7.4	5.2	3.4	0.3	0.0			22
23		4.3	81	*	19	8.2	7.5	3.2	0.2	0.0			23
24		4.5	54	18	7.9	7.7	5.1	3.1	0.2	0.0			24
25		10	40	17	7.5	8.2	5.2	2.9	0.2	0.0			25
26		14	34	16	6.8	13	5.3	2.8	0.1	0.0			26
27		8.2	73	15	6.9	19	5.3	3.4	0.1	0.0			27
28		11	62	15	8.8	13	5.2	5.9	0.1	0.0			28
29		80	40	14		11	5.0	4.7	0.1	0.0			29
30		67	*	32	13	10	5.0	3.9	0.1	0.0			30
31			27	13		7.8		3.3		0.0			31
MEAN		7.3	56.4	25.7	9.4	10.0	5.9	5.7	0.9	0.0			MEAN
MAX.		80	345	86	12	34	8.5	17	3.0	0.1			MAX.
MIN.		0.0	9.5	13	6.8	6.2	5.0	2.8	0.1	0.0			MIN.
AC. FT.		433	3468	1581	522	617	353	348	53	0			AC. FT.

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

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
10.2	6.24	6.39	12	21	0515	0.0		10	01	0000	7375

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	TD		
37 23 55	120 00 10	NE21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheds Valley School. Tributary to San Josquin River via Eastside Bypass. Drainage area is 65.7 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			8.8	24	14	10	12	6.6	3.8				1
2			35	23	14	12	11	6.4	3.6				2
3			11.9	22	13	12	10	6.2	3.4				3
4			35	20	13	11	10	6.2	3.1				4
5			21	18	13	10	9.6	7.0	2.8				5
6			16	17	13	9.6	9.2	9.2	2.6				6
7			14	16	12	9.6	9.2	9.2	2.4				7
8			12	15	12	8.8	9.2	9.2	2.2				8
9			14	15	12	8.8	9.2	14	2.1				9
10			23	15	12	8.4	8.4	14	2.0				10
11			24	15	11	8.0	8.0	10	2.0				11
12	N	N	18	15	11	8.4	7.8	8.0	1.9	N	N	N	12
13	O	O	16	39	11	14	7.6	7.0	1.8				13
14			14	80	11	27	7.6	8.8	1.7				14
15			12	56	10	19	7.6	5.8	1.6				15
16	F	F	12	41	10	15	7.6	5.2	1.5	F	F	F	16
17	L	L	25	34	10	15	7.8	4.8	1.3	L	L	L	17
18	O	O	82	29	10	14	8.0	4.2	1.2	O	O	O	18
19	W	W	50	25	12	13	8.4	4.0	1.0	W	W	W	19
20			92	22	12	12	9.2	3.3	0.7				20
21			185	21	12	12	9.2	3.1	0.1				21
22			318	20	12	10	8.0	3.0	0				22
23			176	19	11	10	7.6	2.8	0				23
24			76	18	10	10	7.6	2.7	0				24
25			45	17	10	10	7.4	2.7	0				25
26			35	16	9.2	11	7.2	2.5	0				26
27			34	15	9.2	14	7.0	2.6	0				27
28			70	15	8.8	18	7.0	2.7	0				28
29			44	15		15	6.8	2.5	0				29
30			34	15		14	6.6	2.7	0				30
31			28	14		13		3.6					31
MEAN			54.4	23.4	11.4	12.3	8.4	5.8	1.4				MEAN
MAX.			318	80	14	27	12	14	3.8				MAX.
MIN.			8.8	14	8.8	8.0	6.6	2.5	0				MIN.
AC. FT.			3350	1440	631	759	499	357	85				AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

† - END *

MEAN DISCHARGE		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
9.8		342		12	22		0		10	1	0000	7120

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.	OATE			FROM	TO		
37 16 52	120 09 45	NE 36 78 16E	6020		12-24-55	NOV 52-DATE		1952		337.63	USCGS

Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B06170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	1.0	2.0	3.0	2.0	2.0	2.0	0.5					1
2	0	1.0	3.0	3.0	2.0	2.0	1.0	0.5					2
3	0	1.0	5.1	3.0	2.0	2.0	1.0	0.5					3
4	0	1.0	2.0	3.0	2.0	2.0	1.0	0.5					4
5	0	1.0	2.0	2.0	2.0	2.0	1.0	0.5					5
6	0	1.0	2.0	2.0	2.0	1.0	1.0	1.0					6
7	0	1.0	2.0	2.0	2.0	1.0	1.0	1.0					7
8	0	1.0	2.0	2.0	2.0	1.0	1.0	2.0					8
9	0	1.0	2.0	2.0	2.0	1.0	1.0	2.0					9
10	0	1.0	2.0	2.0	2.0	1.0	1.0	1.0					10
11	0	1.0	2.0	3.0	2.0	1.0	1.0	1.0					11
12	0	1.0	2.0	4.8	2.0	2.0	0.5	0.5	N	N	N	N	12
13	0	0.5	2.0	6.3	2.0	5.4	0.5	0.5	O	O	O	O	13
14	0	0.5	1.0	5.7	2.0	3.0	1.0	0.5					14
15	0	0.5	1.0	3.6	2.0	2.0	1.0	0.3					15
16	0	0.5	2.0	3.0	2.0	2.0	1.0	0	F	F	F	F	16
17	0	1.0	4.8	3.0	2.0	2.0	1.0	0	L	L	L	L	17
18	0	1.0	3.9	3.0	2.0	2.0	1.0	0	O	O	O	O	18
19	0.3	1.0	4.5	3.0	2.0	1.0	1.0	0	W	W	W	W	19
20	0.5	1.0	4.8	3.0	2.0	1.0	1.0	0					20
21	0.5	1.0	6.0	3.0	2.0	1.0	0.5	0					21
22	0.5	1.0	28	3.0	2.0	1.0	0.5	0					22
23	0.5	0.5	10	3.0	2.0	1.0	0.5	0					23
24	1.0	1.0	6.6	2.0	2.0	1.0	0.5	0					24
25	0.5	1.0	4.5	2.0	2.0	2.0	0.5	0					25
26	0.5	1.0	3.9	2.0	2.0	2.0	0.5	0					26
27	1.0	1.0	5.1	2.0	2.0	2.0	0.5	0					27
28	1.0	1.0	4.5	2.0	2.0	2.0	0.5	0					28
29	1.0	2.0	3.0	2.0	2.0	1.0	0.5	0.3					29
30	1.0	2.0	3.0	2.0	2.0	1.0	0.5	0					30
31	1.0	3.0	2.0	2.0	2.0	1.0	1.0	0					31
MEAN	0.3	1.0	5.9	2.8	2.0	1.7	0.8	0.4					MEAN
MAX.	1.0	2.0	6.0	6.3	2.0	5.4	1.0	2.0					MAX.
MIN.	0	0.5	1.0	2.0	2.0	1.0	0.5	0					MIN.
AC. FT.	18	59	364	173	111	102	48	25					AC. FT.

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

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
1.2	116		12	21		3		10	1	0000	900

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M O.B.&M.	CF5	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
				GAGE HT.	DATE			FROM	TO			
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950		338.22	USCGS	

Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	34	21	7.8	5.0	7.4	2.0	1.8				1
2		0	64	21	7.4	5.4	7.0	2.0	2.0				2
3		0	68	21	7.4	5.4	6.2	2.0	2.3				3
4		0	25	18	7.0	5.4	5.8	2.3	2.3				4
5		0	14	15	6.6	5.4	5.0	2.6	2.0				5
6		0	10	13	6.6	5.0	4.4	2.9	1.7				6
7		0	7.4	13	6.6	5.0	4.4	3.5	1.5				7
8		0	6.2	12	6.2	4.7	4.4	5.0	1.3				8
9		0	7.0	11	6.2	4.7	4.1	7.0	1.3				9
10		0	19	10	6.2	4.4	4.1	6.2	1.2				10
11		0	12	10	6.2	4.4	3.8	5.8	1.2				11
12	N	0	8.6	11	6.2	5.0	3.5	4.7	1.2	N			12
12	O	0	6.6	28	6.2	16	3.5	4.1	1.1	O	O		12
14		0	5.4	66	5.8	30	3.8	3.5	1.1				14
15		0	4.7	41	5.8	19	3.8	2.6	1.1				15
16	F	0	5.0	28	5.8	14	3.5	1.8	1.0	F	F	F	16
17	L	0	93	25	5.8	11	3.8	1.6	0.8	L	L	L	17
18	O	0	88	21	5.8	9.6	3.5	1.7	0.9	O	O	O	18
19	W	0	63	19	5.8	8.2	3.5	1.6	0.9	W	W	W	19
20		0	74	17	5.8	7.8	3.5	1.5	0.9				20
21		0	272	15	6.6	7.0	3.8	1.4	0.8				21
22		0	90	13	6.2	6.2	3.5	1.2	0.7				22
22		0	82	12	5.8	5.8	3.5	1.2	0.7				22
24		0	48	11	5.4	5.8	3.2	1.2	0.6				24
25		0	33	11	5.0	4.1	3.2	1.2	0.5				25
26		0	25	9.6	5.0	6.6	2.9	1.2	0.5				26
27		0	22	9.0	5.0	7.8	2.9	1.4	0.5				27
28		0	45	9.0	5.0		2.9	1.5	0.3				28
29		0	33	8.6		14	2.6	1.5	0.2				29
30		35	28	8.2		10	2.3	1.6	0.1				30
31			25	7.8		8.2		1.6					31
MEAN		1.2	42.5	17.3	6.1	8.7	4.0	2.6	1.1				MEAN
MAX.		35	272	66	7.8	30	7.4	7.0	2.3				MAX.
MIN.		0	4.7	7.8	5.0	4.1	2.3	1.2	0.1				MIN.
AC. FT.		69	2610	1060	340	533	238	157	64				AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRES FEET
7.0	DISCHARGE 505 GAGE HT. 12 21	DISCHARGE 0 GAGE HT. 10 1 0000	5080

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1.4 SEC. T. & R. M. O. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 27	120 14 05	NE 5 78 16E	4460		12-24-55	JAN 55-DATE		1955		320.50	USCGS

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	805525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	77	54	26	65	43	6.2	40	72	75	80	82	77	1
2	83	52	45	64	42	7.6	76	66	92	78	82	80	2
3	77	50	90	63	42	31	60	71	107	59	74	79	3
4	75	60	65	62	42	35	52	71	78	67	83	67	4
5	88	66	42	57	41	22	55	67	80	72	75	72	5
6	94	55	32	52	40	20	69	75	84	82	55	84	6
7	101	44	28	49	40	30	64	92	76	62	55	110	7
8	116	35	25	47	40	52	70	95	76	80	69	102	8
9	98	29	32	47	40	30	71	75	76	82	65	89	9
10	78	23	37	47	40	27	68	80	68	82	66	72	10
11	61	20	37	47	40	57	65	65	67	92	58	77	11
12	52	17	30	49	40	50	66	64	62	76	57	80	12
13	60	16	26	67	39	44	67	54	69	74	58	65	13
14	72	14	23	101	39	60	83	57	76	80	65	74	14
15	67	13	21	104	36	89	130	52	88	74	68	63	15
16	62	13	20	80	38	80	83	59	92	67	73	63	16
17	65	12	21	70	39	49	70	66	38	61	73	60	17
18	64	12	102	65	39	49	72	62	56	64	64	54	18
19	62	12	100	62	40	53	52	40	56	63	86	58	19
20	60	12	134	58	39	56	48	55	69	53	92	67	20
21	80	12	568	55	38	69	40	45	69	54	77	67	21
22	78	12	633	53	34	62	70	48	72	58	70	63	22
23	75	12	270	51	11	57	38	51	57	63	78	65	23
24	73	11	172	49	7.8	56	50	59	45	68	90	64	24
25	70	13	120	47	7.0	66	51	75	47	76	83	68	25
26	68	13	95	46	6.8	76	45	76	47	80	92	83	26
27	66	12	89	45	7.2	77	56	86	51	72	75	74	27
28	64	13	95	44	6.6	64	50	90	51	75	68	62	28
29	62	17	96	44	44	62	70	122	60	73	67	56	29
30	60	31	79	44	44	61	71	116	66	71	70	60	30
31	56	71	71	43	49	49	49	122	75	75	73	31	31
MEAN	73.0	25.2	104	57.3	32.8	49.9	63.4	71.9	68.3	71.4	72.4	72.5	MEAN
MAX.	116	66	633	104	43	89	130	122	107	92	92	110	MAX.
MIN.	52	11	20	43	6.6	6.2	38	40	38	53	55	54	MIN.
AC. FT.	4490	1500	6390	3520	1620	3070	3770	4420	4070	4390	4450	4310	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACFT. FEET			
63.6	1293	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	46210
			12	22		4.6					

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 34	120 26 38	SW21 7S 14E	5,400	16.90	3-16-58	NOV 56-DATE			1956		75.00 ASSUMED

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1971	B05518	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	93	40	52	104	59	12	34	48	84	74	99	114	1
2	116	38	54	102	58	11	22	58	42	94	130	107	2
3	99	36	81	95	57	13	55	65	48	57	112	127	3
4	79	52	96	93	56	14	45	71	65	58	101	103	4
5	74	73	59	77 E	55	15	43	42	37	60	137	71	5
6	78	57	43	77 E	56	16	94	75	35	101	112	79	6
7	97	54	38	77 E	56	18	77	61	34	85	70	102	7
8	110	40	35	67	53	24	77	183	41	84	83	119	8
9	106	32	40	66	53	21	74	71	52	93	119	111	9
10	88	28	45	65	53	21	60	54	49	69	117	83	10
11	68	25	40	66	53	35	41	43	55	108	125	78	11
12	54	23	38	74	53	117	57	33	69	90	99	91	12
13	36	23	36	87	52	207	55	23	47	57	73	85	13
14	35	21	34	141	52	132	157	21	77	64	82	75	14
15	38	20	32	172	51	158	305	24	71	63	113	62	15
16	48	20	31	138	50	172	222	29	129	82	116	66	16
17	80	20	32	113	50	93	198	51	49	56	117	78	17
18	52	19	66	102	50	64	154	49	37	42	101	71	18
19	96	20	125	94	55	66	83	44	36	109	92	71	19
20	85	20	157	85	53	58	33	37	77	64	119	88	20
21	63	20	258	78	47	55	31	52	103	57	104	70	21
22	77	19	700 E	77	45	69	22	44	52	110	81	64	22
23	67	19	393	74	30	78	14	53	59	126	87	107	23
24	68	20	226	69	20	89	17	47	58	110	89	111	24
25	61	23	161	69 E	31	116	25	49	60	117	77	99	25
26	56	22	125	69 E	13	141	28	87	86	136	69	95	26
27	53	21	109	69 E	12	126	43	100	94	106	99	137	27
28	50	20	111	68 E	13	123	48	153	94	69	77	90	28
29	48	54	117	63		94	47	95	92	67	61	45	29
30	46	79	104	61		75	53	73	91	58	67	79	30
31	44		91	60		52		73		74	77		31
MEAN	70	32	114	86	46	74	74	62	64	82	97	89	MEAN
MAX.	166	79	700 E	172	59	207	305	183	129	136	137	127	MAX.
MIN.	35	19	31	60	12	11	14	21	34	42	61	45	MIN.
AC.FT.	4294	1900	7000	5260	2551	4532	4391	3785	3814	5038	5960	5312	AC.FT.

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

MEAN	MAXIMUM					MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
74.4	a	8.99	12	22	0000	11	0.06	3	2	DAILY MEAN	53840

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 15 21	120 39 08	NE 9 8S 12E					1930-					
Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey topographic map). Monthly runoff record dating back to 1947 are published in Bulletin 130-69. a Maximum stage occurred between 0000 and 0300 Hours at gage height 8.99 feet. Discharge was not determined as water overflowed banks.												

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	1.0	9.5	2.8	0.8	0.6						1
2		0	4.3	11	2.6	0.8	0.6						2
3		0	3.6	12	2.4	0.8	0.6						3
4		0	0.8	8.5	2.0	0.8	0.5						4
5		0	0.5	7.0	2.0	0.8	0.4						5
6		0	0.2	6.1	1.9	0.8	0.4						6
7		0	0.1	5.5	1.8	0.8	0.4						7
8		0	0.1	4.9	1.7	0.8	0.3						8
9		0	7.0	4.6	1.6	0.6	0.2						9
10		0	1.1	4.0	1.5	0.6	0.2						10
11		0	0.6	4.0	1.5	0.6	0.1						11
12	N	0	0.3	7.0	1.5	0.8	0.1	N	N	N	N	N	12
13	O	0	0.1	30	1.5	8.5	0	O	O	O	O	O	13
14		0	0	26	1.4	8.0	0						14
15		0	0	16	1.4	4.0	0						15
16	F	0	0.1	12	1.3	3.0	0	F	F	F	F	F	16
17	L	0	2.4	9.5	1.5	2.2	0	L	L	L	L	L	17
18	O	0	1.6	8.0	1.3	1.7	0	O	O	O	O	O	18
19	W	0	29	7.0	1.3	1.4	0	W	W	W	W	W	19
20		0	29	6.4	1.2	1.2	0						20
21		0	363	5.8	1.2	1.0	0						21
22		0	134	5.2	1.2	0.8	0						22
23		0	54	4.6	1.1	0.8	0						23
24		0	30	4.0	1.0	0.8	0						24
25		0	-21	3.6	0.8	0.8	0						25
26		0	18	3.2	0.8	1.0	0						26
27		0	21	3.0	0.8	1.0	0						27
28		0	22	3.0	0.8	1.0	0						28
29		9.6	16	3.0		1.2	0						29
30		5.8	12	3.0		1.0	0						30
31			11	3.0		0.8	0						31
MEAN		0.5	25.3	7.8	1.5	1.6	0.1						MEAN
MAX.		9.6	363	30	2.8	8.5	0.6						MAX.
MIN.		0	0	3.0	0.8	0.8	0						MIN.
AC.FT.		31	1550	477	83	98	8.7						AC.FT.

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

MEAN		MAXIMUM					MINIMUM				TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3.1		804		12	21		0		10	1	0000	2250

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
37 22 27	120 16 35	ND 36 6S 15E	2590		12-24-55	APR 50-DATE		1950		260.60	USCGS

Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	E07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	71	51	184	242	109	44	37	35	78	20	17	21	1
2	62	46	163 *	234	107	45 *	30 *	30	72	18	15	32	2
3	52	45	152	225	106 *	42	27	36	57 *	19	17 *	38	3
4	33	75	164	184	105	41	31	31	61	23	21	41	4
5	23 *	95 *	142	149 *	102	39	28	47 *	47	22	24	41	5
6	13	116	119	138	102	41	27	49	31	20	21	41	6
7	8.7	115	106	137	101	43	30	54	21	23	21	38	7
8	19	101	97	131	101	39	32	70	17	21	19	36 *	8
9	25	79	86	124	101	42	28	126	19	19	22	36	9
10	34	61	86	119	101	44	22	100	20	16	23	33	10
11	33	45	83	115	100	45	20	64	26	17	27	38	11
12	23	51	75	118	100	49	19	63	30	19	27	33	12
13	16	61	71	125	98	55	17	63	21	20	25	32	13
14	12	44	73	134	95	60	25	52	15	19 *	23	37	14
15	8.1	37	68	150	93	70	54	50	12	22	23	44	15
16	1.9	32	64	158	92	79	136	41	11	19	21	46	16
17	4.5	30	65	158	91	83	124	30	9.2	15	24	33	17
18	4.6	21	71	153	94	75	134	29	8.5	15	25	29	18
19	5.5	17	190	201	94	58	126	31	11	13	20	25	19
20	48	19	281	201	77	51	64	32	18	13	17	25	20
21	60	17	326	192	56	48	43	29	20	17	13	30	21
22	62	14	527	179	54	43	37	30	24	21	18	28	22
23	70	12	748	168	58	40	37	24	24	19	24	26	23
24	65	12	686	157	55	38	34	27	16	20	28	29	24
25	62	12	581	149	57	38	30	28	12	21	27	38	25
26	57	35	439	141	57	51	22	24	13	21	32	33	26
27	55	52	337	134	53	63	23	38	13	22	32	33	27
28	40	46	304	129	41	70	22	40	14	21	28	44	28
29	35	80	281	124	64	27	77	17	17	21	27	46	29
30	49	147	263	116	50	27	78	19	22	27	27	39	30
31	51	246	111	111	43	43	80	80	21	21	25	31	31
MEAN	35.6	52.3	228	156	85.7	51.4	43.8	48.7	25.2	19.3	23.0	34.8	MEAN
MAX.	71	147	748	242	109	83	136	128	78	23	32	46	MAX.
MIN.	1.9	12	64	111	41	38	17	24	8.5	13	13	21	MIN.
AC.FT.	2188	3110	14040	9592	4760	3160	2604	2995	1501	1188	1414	2073	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
67.2		765	65.99	12	23	1245	1.2	62.09	10	16	1345	48620

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B00975	PANOCHO DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33	19	38	20	35	72	51	49	67	66	72	54	1
2	35	16	35	20	39	66	52	50	66	70	68	52	2
3	32	18	31	20	41	66	53	52	62	73	72	53	3
4	31	19	30	20	36	70	52	52	57	77	74	51	4
5	35	16	33	20	36	72	54	58	50	77	73	43	5
6	34	17	31	20	39	67	52	60	53	74	72	37	6
7	29	16	28	20	38	66	56	65	48	71	77	41	7
8	23	12 E	26	23	35	65	63	73	52	70	76	50	8
9	25	12 E	31	24	42	64	65	74	52	72	72	50	9
10	25	14 E	29	26	41	62	66	73	60	75	74	49	10
11	20	14 E	32	26	39	59	62	73	61	73	79	54	11
12	20	14 E	31	24	37	63	62	72	65	73	81	53	12
13	17	14 E	30	24	42	69	66	70	64	74	81	47	13
14	18	14 E	26	23	38	72	70	68	61	73	81	46	14
15	21	17	27	24	43	72	71	65	60	70	82	49	15
16	25	21	30	24	46	73	68	62	64	73	81	50	16
17	24	23	33	23	52	72	70	59	62	78	76	48	17
18	26	30	29	24	50	66	69	58	68	78	76	52	18
19	29	30	58	26	48	56	61	58	68	79	78	43	19
20	25	33	40	28	58	60	62	63	70	78	78	36	20
21	22	31	39	27	61	61	57	65	72	79	78	38	21
22	22	38	27	30	67	64	47	66	71	80	73	39	22
23	19	32	25	30	65	66	48	69	70	82	72	37	23
24	19	35	25	30	61	63	47	70	70	82	70	35	24
25	17	36	31	26	56	60	50	67	72	82	72	30	25
26	17	49	25	25	52	64	50	64	72	82	67	30	26
27	18	34	23	27	65	50	42	68	73	80	55	24	27
28	19	54	20	28	71	49	50	73	74	77	53	26	28
29	22	69	20	28	52	52	51	72	70	71	53	27	29
30	20	60	20	25	46	46	45	73	65	70	59	25	30
31	19		21	27	43			70		69	53		31
MEAN	23.9	27.0	29.8	24.6	47.6	62.9	57.1	64.9	64.0	75.1	71.9	42.3	MEAN
MAX.	35	69	58	30	71	73	71	74	74	82	82	54	MAX.
MIN.	17	12E	20	20	35	43	42	49	48	66	53	24	MIN.
AC.FT.	1470	1605	1833	1511	2644	3868	3398	3989	3806	4618	4419	2517	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
49.3	83	8.43	7	23	1900	12E		11	8		35680

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 55 25	120 41 19	NW 5 12S 12E	69. 84.a	9.19 9.04	11-24-65 5-31-69	FEB 59-SEP 62 OCT 64-SEP 68 APR 69-DATE	OCT 62-JUL 63	1959		-2.00	LOCAL

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

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	110	41	192	147	163	230	228	136	299	149	101	122	1
2	118	36	207	146	173	237	213	155	284	134	107	125	2
3	107	34	225	139	177	221	194	183	269	120	111	115	3
4	112	59	226	136	166	216	201	201	248	124	80	98	4
5	93	103	228	120	154	216	196	198	229	135	82	132	5
6	88	104	227	118	151	206	197	221	215	139	82	128	6
7	67	113	225	139 E	152	199	193	201	232	128	66	143	7
8	39	121	225	137 E	151	204	198	225	198	112	83	120	8
9	35	126	222	133 E	150	213	199	259	165	113	100	103	9
10	38	128	217	130 E	144	208	208	277	175	123	111	117	10
11	50	132	215	127 E	141	213	227	248	182	110	119	106	11
12	46	142	215	123 E	143	217	243	236	190	118	109	104	12
13	38	153	223	119 E	141	234	236	214	197	135	129	115	13
14	42	155	217	115 E	142	257	223	195	214	138	108	111	14
15	46	153	214	110 E	143	257	229	161	243	151	116	109	15
16	43	138	210	95	138	257	260	148	235	133	121	107	16
17	39	132	207	90	133	261	244	149	217	115	118	109	17
18	32	128	202	117	142	251	240	164	202	122	113	77	18
19	38	139	206	137	157	246	245	168	180	121	114	63	19
20	39	138	212	150	169	246	216	163	150	135	111	66	20
21	56	137	213	161	197	246	198	171	156	112	107	59	21
22	62	123	209	174	206	246	186	189	168	86	112	68	22
23	42	125	203	188	201	229	187	203	145	81	127	58	23
24	42	118	198	195	194	235	175	203	122	89	134	58	24
25	37	117	196	193	193	238	160	191	148	87	122	63	25
26	39	121	193	183	193	268	154	180	153	90	104	65	26
27	69	122	186	169	199	280	150	178	180	101	94	66	27
28	39	128	173	163	211	275	154	230	195	74	100	61	28
29	37	153	166	160	276	143	278	196	77	122	48	79	29
30	51	185	161	169	261	132	290	186	74	144	41	31	30
31	59	154	154	165	241	241	306	306	91	130	130	31	31
MEAN	56.6	120	205	143	165	238	201	204	199	113	109	91.9	MEAN
MAX.	118	185	228	195	211	280	260	306	299	151	144	143	MAX.
MIN.	32	34	154	90	133	199	132	136	122	74	66	41	MIN.
AC. FT.	3477	7148	12630	8820	9172	14650	11960	12540	11850	6976	6698	5468	AC. FT.

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

MEAN DISCHARGE	DISCHARGE	MAXIMUM			MINIMUM			TOTAL			
		GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
154	311	66.85	5	31	1530	27	63.64	10	14	1645	111400

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 14 52	120 51 04	SE10 8S 10E	419	70.35	6-10-69	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.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1971	852580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.0	0.3	5.2*	7.7	3.5	2.8	4.0	1.7	1.3	5.2*	3.2	5.2	1
2	2.2	0.3	20	8.2	3.1	2.7*	3.8	1.8	1.2*	0.2	0.2	0.2	2
3	1.9	0.3	6.4	5.8	2.8	3.1	3.7	2.4*	1.1	0.2	0.2	0.3*	3
4	0.4	0.6	8.6	4.3	3.1	3.5	3.5	2.3	1.0	0.2	0.2	0.2	4
5	0.3	0.6	5.4	1.8	2.9	3.2	3.2*	2.1	1.0	0.2	0.2	0.2	5
6	1.5*	0.4	3.8	1.7	2.9	3.1	3.1	2.1	0.9	0.2	0.2	0.3	6
7	1.6	0.3	3.5	1.6	2.8	2.9	3.2	2.3	0.9	0.2	0.2	0.3	7
8	0.4	0.3	4.3	1.5*	2.8	2.9	3.1	2.7	0.9	0.2	0.3	0.3	8
9	0.3	0.3	6.0	1.4	2.7	2.7	2.8	2.4	0.8	0.3	0.3*	0.3	9
10	0.3	0.3	3.8	1.4	2.7	2.5	2.7	2.1	0.8	0.2	0.3	0.2	10
11	0.2	0.3	3.4	1.7	2.7	2.5	2.7	2.0	0.8	0.2	0.3	0.2	11
12	0.2	0.4	3.1	3.4	2.5	5.5	2.5	1.8	0.8	0.2	0.3	0.2	12
13	0.2	0.3	2.7	4.5	2.4	10	2.5	1.6	0.8	0.2	0.3	0.2	13
14	0.2	0.3	2.4	11	2.4	5.8	2.5	1.6	0.7	0.2	0.3	0.2	14
15	0.2	0.3	2.3	11	2.4	5.6	2.4	1.5	0.7	0.2	0.3	0.2	15
16	0.2	0.3	14	9.6	2.4	4.8	2.3	1.4	0.6	0.2	0.3	0.2	16
17	0.2	0.2*	12	5.8	2.5	4.3	2.8	1.4	0.5	0.2	0.3	0.1	17
18	0.2	0.2	7.0	9.1	2.4	4.0	2.9	1.4	0.5	0.2	0.3	0.1	18
19	0.2	0.2	7.7	9.9	3.7	3.5	2.3	1.3	0.5	0.2	0.3	0.1	19
20	0.2	0.2	7.0	8.2	2.8	3.4	2.3	1.3	0.5	0.2	0.3	0.1	20
21	0.2	0.2	8.2	6.2	2.7	3.1	2.3	1.3	0.5	0.2	0.3	0.2	21
22	0.2	0.2	6.8	6.0	2.7	2.9	2.1	1.3	0.4	0.2	0.3	0.2	22
23	0.3	0.2	5.8	5.8	2.7	3.2	2.1	1.2	0.4	0.2	0.3	0.1	23
24	0.3	0.3	5.0	5.2	2.5	3.2	2.1	1.1	0.4	0.2	0.3	0.2	24
25	0.3	2.9	4.5	4.5	2.4	4.0	2.2	1.1	0.4	0.2	0.3	0.2	25
26	0.3	2.7	5.0	4.1	2.3	12	2.2	1.2	0.4	0.2	0.2	0.2	26
27	0.3	0.8	17	4.3	2.4	9.4	2.1	1.3	0.4	0.2	0.2	0.2	27
28	0.3	4.1	14	4.0	2.6	6.6	2.0	1.6	0.3	0.2	0.2	0.2	28
29	0.3	17 *	12	4.0*	5.2	1.8	1.5	0.3	0.2	0.2	0.2	0.2	29
30	0.3	5.6	10	3.7	4.8	1.7	1.4	0.3	0.2	0.2	0.2	0.4	30
31	0.3		8.4	3.7	4.3		1.4		0.2	0.2	0.2		31
MEAN	0.5	1.3	7.3	5.2	2.7	4.4	2.6	1.7	0.7	0.2	0.3	0.2	MEAN
MAX.	2.2	17	20	11	3.7	12	4.0	2.7	1.3	0.3	0.3	0.4	MAX.
MIN.	0.2	0.2	2.3	1.4	2.3	2.5	1.7	1.1	0.3	0.2	0.2	0.1	MIN.
AC. FT.	32	80	447	320	151	273	156	102	40	12	16	12	AC. FT.

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

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2.3	36	2.58	12	2	0645	0.1	1.12	9	16	1900	1641

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 44 29	120 07 00	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE		1965		0.00	LOCAL

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.2	6.1*	5.4	2.2	2.8	3.8	1.3	0.7	0.1*			1
2	0.1	0.3	32	6.7	2.2	2.4*	3.4	1.4	0.7*	0.1			2
3	0.1	0.3	8.2	4.9	2.2	2.2	3.0	2.2*	0.6	0.1			3
4	0.1	0.6	9.3	4.1	2.2	2.2	3.0	1.9	0.5	0.0			4
5	0.1	0.8*	6.1	3.8	2.1	2.2	2.8*	1.6	0.5	0.1			5
6	0.1*	0.8	3.4	3.4	2.1	2.2	2.6	1.8	0.5	0.0			6
7	0.1	0.8	2.8	3.2	2.1	2.2	2.6	2.1	0.5	0.0			7
8	0.1	0.5	3.0	3.0*	2.1	2.1	2.4	2.6	0.4	0.0			8
9	0.1	0.5	6.7	2.8	2.1	2.1	2.2	1.9	0.4	0.0			9
10	0.1	0.5	3.8	2.6	2.1	1.8	2.1	1.6	0.4	0.0			10
11	0.1	0.5	3.0	2.8	2.1	1.8	1.9	1.5	0.3	0.0			11
12	0.1	0.8	2.4	11	1.9	5.1	1.9	1.4	0.3	0.0			12
13	0.1	0.5	2.1	22	1.9	16	1.9	1.3	0.3	0.0			13
14	0.1	0.5	1.8	24	1.9	7.0	1.9	1.3	0.3	0.0			14
15	0.1	0.5	1.6	17	1.9	6.1	1.9	1.1	0.3	0.0			15
16	0.1	0.5	30	14	1.9	4.9	1.8	1.0	0.2	0.0			16
17	0.1	0.5	30	12	1.9	4.1	2.6	1.0	0.2	0.0			17
18	0.1	0.5	14	8.9	1.8	3.6	2.4	1.0	0.2	0.0			18
19	0.1	0.5	18	7.0	3.0	3.4	1.8	0.8	0.2	0.0			19
20	0.1	0.5	13	6.1	2.4	3.2	2.1	0.8	0.2	0.0			20
21	0.1	0.5	51 *	5.2	2.1	3.0	2.1	0.8	0.1	0.0			21
22	0.1	0.5	20	4.6	2.1	2.6	1.6	0.8	0.1	0.0			22
23	0.2	0.5	11	4.1	2.1	2.8	1.6	0.7	0.1	0.0			23
24	0.2	0.5	8.2	3.6	1.9	2.6	1.6	0.6	0.1	0.0			24
25	0.2	3.0	6.1	3.2	1.8	3.4	1.8	0.6	0.1	0.0			25
26	0.2	9.8	5.4	3.0	1.8	15	1.6	0.6	0.1	0.0			26
27	0.2	2.1	28	2.8	2.2	13	1.4	0.8	0.1	0.0			27
28	0.2	4.1	18	2.6	2.6	7.4	1.4	1.0	0.1	0.0			28
29	0.2	28 *	11	2.6*		6.1	1.4	0.9	0.1	0.0			29
30	0.2	7.4	8.9	2.4		4.9	1.4	0.8	0.1	0.0			30
31	0.2		6.7	2.2		4.1		0.8		0.0			31
MEAN	0.1	2.2	12.0	6.5	2.1	4.6	2.1	1.2	0.3	0.0			MEAN
MAX.	0.2	28	51	24	3.0	16	3.8	2.6	0.7	0.1			MAX.
MIN.	0.1	0.2	1.6	2.2	1.8	1.8	1.4	0.6	0.1	0.0			MIN.
AC. FT.	8	133	737	399	116	282	127	75	17	1			AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE GAGE HT. MO. DAY TIME	MINIMUM DISCHARGE GAGE HT. MO. DAY TIME	TOTAL ACRE FEET
2.6	94 3.90 12 16 1550	0.0 2.55 6 22 1800	1896

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

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	805170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	59	86	143	656	295	171	98	57	86	55	58	72	1
2	59	84	146	664	309	168	117	62	93	62	62	68	2
3	59	98	145	668	306	171	123	79	76	65	59	79	3
4	63	126	145	699	309	171	114	107	65	60	65	82	4
5	65	126	143	707	309	158	109	77	82	57	67	84	5
6	56	126	141	699	320	145	130	84	77	67	60	93	6
7	218	130	145	699	323	156	116	98	84	75	60	98	7
8	247	123	143	643	554	166	109	98	82	76	65	106	8
9	254	124	145	341	866	141	111	75	76	71	65	92	9
10	254	130	313	320	881	126	93	58	77	71	71	86	10
11	163	133	673	314	851	139	112	60	84	65	80	83	11
12	135	132	664	314	775	141	103	60	83	64	72	79	12
13	92	132	664	309	341	160	114	63	84	64	71	76	13
14	87	137	677	303	320	154	121	65	96	73	69	71	14
15	84	135	694	289	311	158	79	75	98	69	68	64	15
16	83	133	694	286	309	160	90	64	116	75	72	76	16
17	80	135	690	284	295	148	106	64	68	99	75	76	17
18	82	135	699	289	297	126	117	56	63	82	65	77	18
19	80	132	725	284	297	128	99	75	89	76	54	80	19
20	60	145	673	286	295	132	86	71	89	72	58	77	20
21	67	137	775	292	292	139	71	79	84	77	73	82	21
22	84	135	699	297	295	141	62	63	87	60	69	87	22
23	89	133	681	297	222	139	58	71	75	67	65	92	23
24	92	132	643	292	148	119	50	69	69	64	72	92	24
25	89	141	686	289	173	123	57	77	72	64	63	95	25
26	89	135	699	292	173	141	63	86	77	72	64	106	26
27	89	132	699	286	175	148	60	92	72	73	69	96	27
28	87	135	686	289	181	124	58	103	68	69	76	99	28
29	87	148	677	292	123	47	89	72	57	77	77	99	29
30	90	150	677	292	112	73	73	98	65	54	82	107	30
31	86		673	292	106			86		58	82		31
MEAN	104	129	518	396	365	143	91.5	76.2	80.3	68.2	68.0	85.8	MEAN
MAX.	254	150	775	707	881	171	130	107	116	99	82	107	MAX.
MIN.	59	84	141	284	148	106	47	56	63	54	54	64	MIN.
AC.FT.	6405	7696	31850	24330	20280	8795	5447	4683	4778	4191	4181	5105	AC.FT.

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

MEAN DISCHARGE		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	176	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
		926	6.74	12	21	0630	24	5.62	7	22	1050	127700

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-Snellings 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-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	142	147	247	693	380	246 *	143 #	150	143	70	51	80	1
2	151 *	142 *	239	698	385	235	153	132	122	64	62	101	2
3	150	141	292	689	385 *	232	171	135 *	110	60	61	88	3
4	148	161	259	702	386	238	160	156	109	75	55 *	107	4
5	136	200	234	725	382	235	187	171	92	85	58	122	5
6	131	205	226	693	382	181	156	165	92	71	62	122	6
7	133	208	223	718	385	202	184	161	97	63	62	125	7
8	230	202	219	720	386	208	183	179	76	68	54	133	8
9	333	190	219	597	668	205	151	192	82 E	87	56	151	9
10	335	187	217	426	828	200	169	176	82 E	83	66	165	10
11	336	189	381	402	829	177	166	153	84 E	86	65	156	11
12	275	195	691	411	818	191	177	129	84 E	87	67	160	12
13	213	192	642	436	654	219	176	137	85 E	66	67	166	13
14	184	189	652	446	415	239	194	123	84 E	45	70	158	14
15	160	192	669	413	396	232	204	108	84 E	39	79	139	15
16	152	192	691	395	383	230	171	111	87	48	101	127	16
17	154	188	722	388	373	231	176	113	109	57	80	116	17
18	146	188	726	382	367	216	197	101	87	91	68	118	18
19	131	188	788	379	382	196	213	89	62	96	83	128	19
20	135	181	819	374	370	193	199	103	66	65	70	146	20
21	133	196	912	372	362	192	186	115	91	52	82	173	21
22	121	192	911	377	361	196	166	123	79	57	78	165	22
23	137	189	759	377	363	190 E	158	121	73	59	84	177	23
24	155	187	731	380	288	184 E	147	127	74	42	88	190	24
25	156	195	721	375	239	177 E	138	109	81	55	83	185	25
26	152	207	719	373	245	172 E	143	95	71	76	80	182	26
27	146	197	724	376	241	167 E	133	107	80	74	62	193	27
28	147	198	725	371	246	161 E	132	138	88	81	48	192	28
29	143	221	713	373	156 E	134	148	74	103	54	202	29	29
30	142	238	705	375	151 E	128	143	65	89	67	205	30	30
31	156		698	378	146 E	146	154		70				31
MEAN	173	190	564	378	425	200	167	134	87.1	69.8	68.6	149	MEAN
MAX.	336	238	912	725	829	246	213	192	143	103	101	205	MAX.
MIN.	121	141	217	371	239	146	128	89	62	39	48	80	MIN.
AC. FT.	10640	11300	34660	29380	23600	12290	9947	8259	5181	4292	4217	8870	AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE			MINIMUM DISCHARGE			TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO DAY TIME	DISCHARGE	GAGE HT.	MO DAY TIME	
225	1280	14.82	12 21 2000	31	10.44	7 14 2230	162600

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 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24 86.23	USCGS USCGS

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

a Reflects present datum.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	800525	MUSTANG CREEK NEAR BALLICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	3.9	0.0		0.0*	0.0*						1
2	0.0*	0.0*	3.2*	0.1		0.0	0.0						2
3	0.2	0.0	1.8	0.1	*	0.0	0.0	*	*			*	3
4	0.6	0.0	0.7	0.0*		0.0	0.0						4
5	1.9	0.0	0.3	0.0		0.0	0.0						5
6	0.7	0.0	0.1	0.0		0.0	0.0						6
7	0.0	0.0	0.0	0.0		0.0	0.0						7
8	0.0	0.0	0.0	0.0		0.0	0.5						8
9	0.0	0.0	0.0	0.0		0.0	0.1						9
10	0.0	0.0	0.0	0.0		0.0	1.0						10
11	0.0	0.0	0.1	0.0		0.0	0.1						11
12	1.2	0.0	1.4	0.0	N	0.0	0.0	N	N	N*	N	N	12
13	1.3	0.0	2.0	0.0	O	0.0	0.0	O	O	O	O	O	13
14	0.0	0.0	1.1	0.0		0.0	0.0						14
15	0.0	0.0	0.2*	0.0		0.0	0.5						15
16	0.0	0.0	0.2	0.0	F	0.0	0.9	F	F	F	F	F	16
17	0.0	0.0	2.5	0.0	L	0.0	1.0	L	L	L	L	L	17
18	0.0	0.0	2.3	0.0	O	0.0	3.5	O	O	O	O	O	18
19	0.0	0.0	6.6	0.0	W	0.0	2.6	W	W	W	W	W	19
20	0.0	0.0	4.4	0.0		0.0	1.2						20
21	0.0	0.0	6.1*	0.0		0.0	0.5						21
22	0.0	0.0	5.6	0.0		0.0	0.0						22
23	0.0	0.0	3.8	0.0		0.0	0.1						23
24	0.0	0.0	2.4	0.0		0.0	1.0						24
25	0.0	0.0	1.6	0.0		0.0	0.5						25
26	0.4	0.0	1.0	1.6		3.0	0.0						26
27	0.4	0.0	0.9	0.8		3.1	0.3						27
28	0.2	0.0	0.5	1.7		1.5	1.8						28
29	0.6	8.7*	0.3	0.5		0.7	1.4						29
30	0.3	5.4	0.1	0.1		0.2	0.6						30
31	0.0		0.0	0.0		0.0							31
MEAN	0.3	0.5	1.7	0.2		0.3	0.6						MEAN
MAX.	1.9	8.7	6.6	1.6		3.1	3.5						MAX.
MIN.	0.0	0.0	0.0	0.0		0.0	0.0						MIN.
AC.FT.	16	28	105	10		17	35						AC.FT.

† - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - EAND *

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
0.3		9.69	1.92	11	29	1500	0		10	1	0000	210

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OR GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
37 29 58	120 39 48	NW16 5S 12E	281	5.63	1-21-69	NOV 65 ⁸ -DATE		1965		0.00	LOCAL

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

a Station installed in November 1965, but data were insufficient to publish prior to 1969. Discharge measurements and partial gage height records are available in DWR files.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B08720	ORESTIMBA CREEK NEAR CROWS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.5	0.0	1.7	0.0	0.1*	6.5	23	20	89 *	14	11	33	1
2	5.9	0.0	1.3*	0.4	0.1	11 #	42 *	12	64	12	35	56	2
3	4.4	0.0	0.2	0.1	0.1	4.4	15	16	74	11	26	22	3
4	11	5.5	0.0	0.1	0.1	15	12	37	29	31	16	14	4
5	33 *	16 *	0.0	0.1	0.1	9.2	23	44 *	32	4.3	15	14	5
6	17	13	0.0	0.1*	0.1	6.5	19	31	15	39	15 *	7.5	6
7	2.2	6.3	0.0	0.1	0.1	4.4	14	28	19	26	15	24 *	7
8	0.6	6.8	0.0	0.0	0.1	8.5	15	43	15	25	25	43	8
9	0.0	11	0.0	0.0	0.1	32	12	31	14	15	27	31	9
10	0.0	13	0.0	0.1	1.2	21	11	55	16	26	15	3.7	10
11	0.0	26	0.0	0.1	1.7	24	26	94	23	39	13	2.1	11
12	0.2	12	0.0	0.1	0.4	15	33	36	15	35	22	13	12
13	1.1	23	0.0	0.2	0.0	46	9.8	6.8	16	24	15	32	13
14	1.0	7.7	0.0	18	0.0	22	12	5.0	35	17	16	44	14
15	0.2	0.8	0.0	53	0.0	21	57	5.9	34	12	11	26	15
16	0.4	0.1	0.0	2.0	0.0	28	83	9.0	17	15	22	8.7	16
17	0.4	0.0	0.0	5.4	0.0	6.5	115	9.2	23	13	12	8.5	17
18	0.6	0.0*	0.2	0.7	0.0	8.7	83	18	16	23	11	4.8	18
19	0.7	0.0	0.5	0.2	0.0	20	70	24	22	19	13	4.2	19
20	0.1	0.0	22	0.1	0.2	14	90	20	28	17	13	3.9	20
21	0.5	0.0	99 *	0.1	6.5	15	59	10	30	22	11	4.0	21
22	0.8	0.0	88 *	0.0	6.1	16	24	25	22	28	14	8.2	22
23	0.6	0.0	25	0.0	92	11	15	63	14	18	45	6.8	23
24	0.0	0.0	5.8	0.0	128 E	11	13	51	27	21	17	5.4	24
25	0.0	0.0	0.6	0.0	79 E	44	11	73	13	23	12	5.4	25
26	0.0	0.0	0.2	0.0	36 E	121 *	16	33	13	28	19	1.7	26
27	0.0	0.0	0.2	0.0	7.0E	71	19	28	39	16	9.5	4.4	27
28	16	18	0.1*	0.0	1.1E	44	11	66	35	14	6.5	10	28
29	18	12	0.0	0.1	67	20	94	32	18	12	12	0.9	29
30	2.0	4.4	0.0	0.1	21	19	19	65	35	16	14	0.6	30
31	0.2	0.0	0.0	0.1	12	12	12	39	12	12	8.0		31
MEAN	3.9	5.9	7.9	3.2	12.9E	25.8	32.4	35.2	28.5	21.4	16.6	14.8	MEAN
MAX.	33	26	99	53	128 E	121	115	94	89	43	45	56	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	4.4	9.8	5.0	13	11	6.5	0.6	MIN.
AC FT.	239	348	486	197	714E	1583	1926	2166	1698	1313	1023	878	AC FT.

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

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
17.4	224	52.25	12	21	1545	0		10	9	0400	12570

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 24 51	121 00 52	NE18 6S 9E	2650E	12.08a	2-1-63	DEC 57-DATE		1957	1968	0.00	LOCAL USCGS
								1968		0.00	

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-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	514	449	1110	1510	1020	727	768	550	829	442	327	395	1
2	519	457	1190	1490	988	727	746	579	826	413	337	416	2
3	522	434	1270	1420	969	794	690	611	784	390	332	416	3
4	528	444	1280	1390	954	832	647	638	711	403	327	382	4
5	562	525	1230	1350	924	803	677	659	656	395	305	364	5
6	519	577	1130	1320	890	730	690	662	632	418	303	408	6
7	473	610	1080	1280	876	683	708	677	629	421	301	410	7
8	467	631	1030	1270	872	683	724	765	602	400	291	426	8
9	465	650	1010	1270	861	690	727	875	556	377	312	392	9
10	505	640	980	1170	976	699	717	972	516	367	315	349	10
11	522	625	938	1000	1180	742	736	918	527	410	320	379	11
12	536	610	927	927	1230	721	777	784	522	423	315	410	12
13	511	625	1110	909	1240	780	724	742	505	403	305	447	13
14	470	628	1190	924	1170	829	780	696	533	395	332	426	14
15	446	598	1240	1010	965	898	852	674	530	347	308	387	15
16	431	634	1310	996	887	925	955	638	516	344	327	374	16
17	408	622	1350	973	861	918	1060	608	536	322	327	382	17
18	379	598	1370	1010	826	885	1090	588	491	347	320	397	18
19	365	580	1400	1180	819	868	1040	564	475	384	315	405	19
20	362	580	1530	1260	822	842	983	547	475	379	301	405	20
21	374	571	1790	1290	808	832	885	547	469	379	329	374	21
22	403	571	1970	1270	808	806	724	573	445	372	347	369	22
23	426	571	2160	1250	872	755	690	623	434	315	392	390	23
24	454	562	2150	1250	901	746	687	629	458	317	387	382	24
25	441	577	2110	1240	829	784	632	635	418	344	379	390	25
26	452	592	1990	1190	750	898	626	594	434	352	372	382	26
27	452	613	1830	1150	714	921	611	582	445	344	344	405	27
28	481	681	1710	1110	714	925	567	653	480	337	332	423	28
29	467	815	1620	1070	962	556	721	477	342	315	408	29	29
30	431	965	1580	1050	918	547	761	477	325	342	437	30	30
31	431		1560	1040	842		765		298	384		31	31
MEAN	462	598	1424	1180	919	812	754	672	546	371	330	398	MEAN
MAX.	562	965	2160	1510	1240	962	1090	972	829	442	392	437	MAX.
MIN.	362	434	927	909	714	683	547	547	418	298	291	349	MIN.
AC. FT.	28400	35570	87560	72530	51030	49910	44860	41320	32470	22820	20320	23660	AC. FT.

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

MEAN DISCHARGE	DISCHARGE	MAXIMUM			MINIMUM				TOTAL ACRE FEET		
705	2180	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	510400
		43.27	12	23	2100	284	38.31	8	8	0400	

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	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65	1959	1959	0.00	USED
								1959		0.00	USGS
								1959		3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing.
Flows regulated by upstream reservoirs, and diversions.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	807200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	638 E	469	1180	1680	1170 *	688 *	777	536	777	434	333	438	1
2	658 E	475	1280	1660	1130	677	770	531	794	417	364	448	2
3	682 E	467	1340	1600	1100	727	691	689	760	421	342	439	3
4	705 E	463	1380	1570	1070	851	607	753	710	443	331	431	4
5	728 #	539	1350	1530	1040	816	615	775 *	595	433	308	433	5
6	682	596	1260	1510	1000	741	597	784	592	425	313 *	486	6
7	602	634	1200	1470 *	969	695	635	779	602	424	320	486	7
8	590	643	1160	1440	950	698	645	863	565	416	332	486	8
9	569	660 *	1130	1440	936	682	662	1020	499	363	313	444	9
10	595	665	1100	1390	980	698	662	1100	477	340	312	427	10
11	606	650	1060	1220	1170	707	737	1000	501	376	314	457	11
12	622	627	1030	1130	1230	698	765	855	504	413	314	529	12
13	619	632	1160	1100	1250	796	685	812	482	376 *	310	561	13
14	586	657	1280	1100	1220	875	777	747	528	376	315	541	14
15	577	628	1330	1170	1030	947	865	690	490	339	349	506	15
16	566	636	1400	1180	928	992	1040	636	457	323	318	473	16
17	516	646	1440	1160	893	970	1150	610	479	346	318	475	17
18	472	612	1470	1170	862	869	1220	587	465	365	315	480	18
19	451	599	1530	1310	833	859	1150	588	450	384	316	506	19
20	438	592	1610	1420	812	798	1070	584	465	375	318	536	20
21	426	588	1820	1440	812	787	960	603	442	366	342	505	21
22	448	579	2020	1440	799	754	799	606	392	373	416	483	22
23	459	581	2200	1420	815	701	770	672	387	340	456	509	23
24	498	581	2230	1410	866	708	718	671	436	302	420	535	24
25	481	599	2200	1410	814	751	654	620	423	333	402	549	25
26	482	616	2130	1360	721	925	629	585	437	334	400	548	26
27	484	621	2000	1310	679	978	631	549	475	318	390	562	27
28	502	699	1880	1260	681	979	601	641	510	322	390	560	28
29	511	944	1790	1230		1020	590	694	510	345	393	544	29
30	466	1040	1740	1210		1000	592	739	467	316	406	549	30
31	460		1720	1190		896		739		305	416		31
MEAN	552	625	1530	1353	956	816	769	713	522	369	351	498	MEAN
MAX.	728	1040	2230	1680	1250	1020	1220	1100	794	443	456	562	MAX.
MIN.	426	463	1030	1100	679	677	590	536	387	302	308	427	MIN.
AC. FT.	33960	37170	94060	83170	53080	50150	45750	43870	31080	22700	21590	29610	AC. FT.

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

MEAN DISCHARGE	MAXIMUM					MINIMUM				TOTAL ACRE FEET	
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY		TIME
754	2240	37.20	12	24	0330	280	32.00	7	24	0415	546200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 29 52	121 04 52	SW15 5S 8E	54.0	6-13-38			APR 38-SEP 66	1938	1959	0.00	USED
			50.47a	6-13-38			OCT 69-DATE	1959		0.00	EGGS
			5460b	42.65	3- 9-70			1959		3.53	USED

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Station reactivated 10-1-69.

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

WATER YEAR	STATION NO.	STATION NAME
1971	804175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

(IN CUBIC FEET PER SECOND)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11	0.1	199 *	2400	1860	848	344	33	10	6.9*	18	11	1
2	61 *	0.1*	197	2600	1910 *	598	498	36	12 *	8.6	19	11	2
3	17	0.1	364	2600	1550	605	264	24	12	9.1	23	11	3
4	9.6	0.2	1380	2390	1440	611	236	20	11	9.4	29	10	4
5	9.6	0.3	2500	1540 *	1600	647	769	19 *	12	8.5	120	5.1	5
6	10	0.3	2480	931	1680	957	612	19	11	9.7	16	6.6	6
7	11	0.4	1750	930	1580	1020	527 *	21	11	8.2	15	11	7
8	12	11	903	928	1670	698	449	29	12	8.1	13	11	8
9	12	138	600	924	1520	601	416	7.2	12	18	15 *	11	9
10	12	233	556	874	1530	623	226	15	14	28	24	11	10
11	5.7	231	596	905	1730	614	226	11	13	25	17	6.8	11
12	5.2	231	774	1440	1520	607	458	10	13	23	14	5.4	12
13	7.7	226	912	2410	530	747	287	8.6	11	35	14	4.8	13
14	8.3	223	1080	2330	685	902	158	8.5	11	24	13	8.7	14
15	8.5	221	1190	2200	1670	802	141	8.7	13	15	13	8.6	15
16	1.5	207	1400	1720	1730	652	125	8.3	13	16	14	8.3	16
17	5.0	207 *	2050	1530	1670	595	123	8.8	12	18	17	7.6	17
18	8.2	207	2190	1520	1660	581	121	9.4	13	14	19	7.2	18
19	17	207	2300	1540	1640	397	130	9.5	12	15	18 *	5.6	19
20	4.7	208	2280	1530	1680	251	126	10	11	20	18	8.7	20
21	2.5	209	2220	1570	1640	274	129	25	11	21	10	7.7	21
22	1.5*	207	2220	1730	1400	273	129	11	13	19	8.7	7.3	22
23	1.2	208	2230	2050	1530	250	127	9.9	14	18	8.9	7.4	23
24	1.0	209	2330	1870	1470	266	126	76	12	17	13	8.9	24
25	0.6	208	2390	1560	1330	261	125	21	10	15	12	8.7	25
26	0.4	207	2440	1280	1210	259	124	11	9.4	15	71	8.8	26
27	0.3	206	2480	1030	744	178	125	11	7.2	17	12	9.5	27
28	0.2	205	2500	895	863	207	126	11	6.9	19	12	9.7	28
29	0.1	204	2140	932	140	248	125	11	8.1	19	11	9.9	29
30	0.1	200	2060	1440	238	238	124	9.5	5.8	18	11	21 *	30
31	0.1	2130	1360	231	231	231	124	9.0	18	12	12		31
MEAN	7.9	154	1640	1580	1466	517	250	16.8	11.2	16.6	20.3	9.1	MEAN
MAX.	61	233	2500	2600	1910	1020	769	76	14	35	120	21	MAX.
MIN.	0.1	0.1	197	874	530	178	121	7.2	5.8	6.9	8.7	4.8	MIN.
AC.FT.	486	9153	100800	97150	81410	31820	14870	1034	667	1021	1251	539	AC.FT.

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

MEAN		MAXIMUM				MINIMUM		TOTAL			
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACR FEET
470	2770	72.32a	12	29	0315	0.0		11	3	1200	34020

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
			CF5	GAGE HT.	DATE			FROM	TO		
37 39 59	120 27 40	NW20 3S 14E	52200	188.0 186.29	12- 8-50 1-26-69	OCT 36-SEP 60 OCT 61-DATE		1937		1.76	USGS

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

a The annual maximum gage height was 72.42 and occurred at 1900 hours on 2-1-71.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	108	99	319	2250	1570	993	319	157	91	67	64	70	1
2	108	99	328	2670	2260	742	458	118	91	65	65	65	2
3	150	99	323	2670	1800	694	493	112	89	67	59	70	3
4	143	105	852	2540	1530	687	349	105	91	72	61	73	4
5	116	103	2360	2050	1650	681	404	97	91	70	61	73	5
6	105	105	2670	1030	1680	806	771	95	93	67	112	72	6
7	100	105	2380	984	1670	1000	640	97	91	65	72	68	7
8	97	103	1280	968	1660	912	538	112	86	62	65	70	8
9	100	99	784	968	1600	674	496	109	80	62	62	68	9
10	102	201	784	944	1550	674	439	125	84	65	64	70	10
11	105	291	728	952	1680	681	303	101	89	73	65	73	11
12	102	299	835	952	1730	756	321	91	88	77	68	77	12
13	97	299	952	2380	946	904	509	93	84	72	64	75	13
14	105	295	1100	2390	661	1090	291	91	80	70	64	64	14
15	161	295	1260	2450	1390	1100	226	86	73	72	65	65	15
16	108	287	1230	1920	1710	784	197	64	73	68	64	67	16
17	102	280	2000	1530	1660	721	215	88	75	65	61	68	17
18	97	280	2180	1540	1660	661	340	91	77	65	70	70	18
19	97	280	2420	1540	1590	636	349	89	78	65	73	72	19
20	105	280	2390	1540	1650	367	353	89	80	67	72	72	20
21	105	287	2420	1570	1590	336	265	88	80	65	77	68	21
22	105	287	2310	1590	1440	367	174	89	78	64	84	68	22
23	102	287	2290	2080	1480	340	174	93	78	64	73	68	23
24	100	287	2290	2040	1420	349	165	86	75	64	64	70	24
25	97	311	2480	1710	1390	448	163	109	75	65	59	70	25
26	94	299	2550	1450	1250	540	163	107	78	62	62	72	26
27	92	295	2580	1200	904	517	160	97	78	61	105	73	27
28	92	311	2540	1040	1010	443	163	109	77	61	82	72	28
29	92	332	2490	968		367	163	91	70	62	75	72	29
30	92	323	2040	1360		328	163	89	68	64	75	72	30
31	94		2050	1470		315		93		65	72		31
MEAN	106	237	1717	1637	1505	642	325	99.4	81.4	66.2	70.3	70.2	MEAN
MAX.	161	332	2670	2670	2260	1100	771	157	91	77	112	77	MAX.
MIN.	92	99	319	944	661	315	160	84	68	61	59	64	MIN.
AC. FT.	6492	14110	105600	100700	83570	39470	19370	6111	4842	4072	4322	4179	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - END *

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
542	2920	73.23	12	29	0900	58	69.55	8	25	2000	392700

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
			CF5	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		-1.13	USCGS

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	86	15	253	48	26	16	130	96	88	79	59	66	1
2	86	15	237	47	25	16	79	89	83	69	62	79	2
3	80	15	407	43	25	16	77	99	87	71	52	79	3
4	83	21	192	43	24	16	80	91	86	79	49	71	4
5	90	35	133	49	24	16	93	107	92	79	59	78	5
6	81	51	157	39	23	17	106	101	97	83	59	80	6
7	94	80	105	34	23	17	122	93	91	78	62	78	7
8	94	74	83	32	22	33	112	113	99	74	65	80	8
9	104	43	69	31	21	56	111	126	93	71	63	74	9
10	104	29	57	28	21	37	122	95	88	68	56	74	10
11	94	23	59	28	21	57	117	82	84	65	69	72	11
12	90	19	59	30	21	69	105	60	78	65	59	68	12
13	90	16	48	33	21	113	105	69	74	52	53	77	13
14	93	22	40	136	20	104	113	74	82	48	51	77	14
15	97	23	35	448	19	78	122	68	87	55	51	62	15
16	104	21	32	178	19	63	113	78	90	59	74	71	16
17	102	19	30	115	19	49	114	91	93	65	65	76	17
18	96	18	83	92	19	44	158	83	86	65	69	71	18
19	85	16	108	81	19	37	127	71	86	66	76	77	19
20	63	20	311	69	18	47	115	69	76	63	63	76	20
21	43	21	186	57	18	68	112	57	76	60	66	59	21
22	33	17	447	48	18	48	96	63	80	65	63	74	22
23	26	16	269	42	17	79	88	60	72	55	71	86	23
24	22	14	140	38	17	90	88	68	66	52	69	80	24
25	20	19	104	36	17	100	82	77	77	46	78	94	25
26	19	40	86	34	17	169	102	72	93	60	79	94	26
27	19	38	77	32	17	163	107	80	90	62	78	92	27
28	16	66	66	30	17	113	97	94	97	66	83	93	28
29	16	334	72	29	17	95	96	96	87	60	83	86	29
30	16	428	65	28	17	84	101	98	86	62	80	80	30
31	16		53	28	17	96		90		59	78		31
MEAN	66.5	52.3	131	64.7	20.3	64.7	106	84.2	85.5	64.5	65.9	77.5	MEAN
MAX.	104	428	447	448	26	169	158	126	99	83	83	94	MAX.
MIN.	16	14	30	28	17	16	77	57	66	46	49	59	MIN.
AC FT.	4090	3110	8063	3979	1127	3979	6327	5177	5086	3969	4054	4610	AC FT.

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

- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRES FEET		
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRES FEET
74.0	578	72.89	1	15	0520	14	67.56	11	24	0900	53570

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
				CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE 24 35 9E	7710	88.04	12-23-55	MAR 41-DATE			1941		0.00	USCGS

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	804105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	329	239	759	2210	1690	1170	669	382	280	236	248	251	1
2	346	238	643	2400	1930	1100	692	407	268	236	255	246	2
3	333	238	739	2580	2210	910	746	399	277	229	246	239	3
4	340	266	746	2600	1940	849	729	382	282	255	239	239	4
5	353	262	1130	2490	1770	828	649	371	277	268	253	251	5
6	340	254	2210	1990	1850	818	807	366	287	246	260	246	6
7	340	270	2500	1360	1910	987	1030	347	280	236	287	241	7
8	335	266	2160	1260	1850	1140	976	371	282	234	270	243	8
9	338	256	1460	1230	1890	1040	892	450	280	239	268	246	9
10	355	241	1030	1200	1800	864	814	407	260	248	253	239	10
11	353	285	939	1170	1770	857	759	410	265	241	246	241	11
12	333	368	899	1170	1880	881	666	342	270	246	241	234	12
13	321	388	994	1400	1820	1110	676	313	265	251	241	227	13
14	329	393	1090	2270	1140	1320	794	305	270	239	251	236	14
15	359	399	1230	2690	965	1500	656	305	246	232	258	229	15
16	426	399	1370	2610	1590	1500	570	292	248	241	260	232	16
17	366	393	1460	2130	1820	1290	570	303	246	246	251	236	17
18	333	388	2020	1840	1800	1180	662	305	246	272	248	246	18
19	314	388	2300	1800	1800	1000	773	300	246	260	258	243	19
20	304	388	2510	1790	1760	860	790	292	258	243	258	243	20
21	288	393	2640	1780	1780	682	780	290	243	227	260	248	21
22	280	396	2630	1810	1740	627	640	297	241	229	277	234	22
23	270	390	2740	1890	1600	617	503	272	253	232	295	239	23
24	266	390	2530	2190	1640	617	464	280	253	239	255	246	24
25	258	418	2490	2140	1590	653	435	282	248	268	241	248	25
26	253	430	2540	1900	1500	950	435	275	251	258	248	265	26
27	251	424	2570	1680	1370	1070	453	275	270	246	270	272	27
28	249	473	2570	1460	1110	983	415	290	260	241	282	265	28
29	245	653	2560	1320	899	899	410	303	265	239	282	255	29
30	243	797	2410	1280	835	399	290	290	253	253	277	268	30
31	239		2220	1620		752		290		246	251		31
MEAN	313	369	1810	1847	1697	964	662	329	262	244	259	245	MEAN
MAX.	426	797	2740	2690	2210	1500	1030	450	287	272	295	272	MAX.
MIN.	239	238	643	1170	965	617	399	272	241	227	239	227	MIN.
AC. FT.	19220	21980	111300	113600	94240	59280	39380	20220	15610	15010	15930	14570	AC. FT.

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

MEAN DISCHARGE		MAXIMUM				MINIMUM				TOTAL ACFT FEET		
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
746		2850	29.60	12	23	0300	213	22.74	7	21	1900	540300

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LDNGITUDE	1.4 SEC. T & R M.D.B. & M.		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
				CF5	GAGE HT.	DATE			FROM	TO			
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE				1960	1959	0.00	USED
				37900b	42.86	1-27-69				1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	8074	SAN JOAQUIN RIVER AT MALE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1080	796	2170	4030	2990	1930	1570	971	114	64	64		1
2	1080	801	2140	4100	3060	1900	1510	1070	112	6	64	768	2
3	1110	811	2270	4210	3360	1750	1490	122	117	727	632	36	3
4	1130	834	2360	4230	3210	1740	144	1260	144	66	623	64	4
5	1180	897	2470	4170	3010	1740	1280	1310	956	837	57	76	5
6	1200	971	3290	3910	3000	1630	1250	132	882	764	575	759	6
7	1150	1050	3700	3310	3020	1680	1530	1247	921	727	615	759	7
8	1120	1070	3670	3060	3010	1810	1540	1210	921	731	632	768	8
9	1070	1060	3110	3000	2970	1750	1490	1180	911	736	632	768	9
10	1110	1050	2500	2950	2960	1540	1450	1160	901	736	566	1	10
11	1100	1060	2190	2840	2990	1520	1510	1130	891	75	553	736	11
12	1110	1150	2220	2700	3150	1550	1440	1100	881	801	536	844	12
13	1120	1150	2380	2690	3230	1800	1310	1070	870	768	536	873	13
14	1120	1180	2620	3330	2830	2050	1490	1050	860	727	583	806	14
15	1170	1180	2790	3780	2410	2350	1600	1020	850	736	685	745	15
16	1250	1160	2980	3950	2600	2420	1550	991	840	727	690	690	16
17	1180	1180	3060	3600	2900	2240	1700	995	830	727	649	699	17
18	1020	1150	2830	3290	2900	2050	1880	974	820	731	588	713	18
19	931	1110	3820	3260	2880	1840	1940	952	803	750	605	722	19
20	882	1100	4040	3320	2810	1720	1920	930	786	736	658	792	20
21	839	1100	4350	3360	2820	1520	1820	943	768	727	623	792	21
22	825	1100	4480	3380	2780	1470	1550	956	751	722	740	722	22
23	830	1100	4720	3390	2690	1380	1300	946	781	727	792	736	23
24	849	1100	4670	3600	2610	1390	1230	991	811	727	754	849	24
25	858	1140	4590	3630	2510	1460	1170	936	841	727	695	854	25
26	834	1190	4600	3470	2370	1950	1080	858	871	722	658	873	26
27	830	1180	4570	3230	2180	2210	1060	820	901	717	731	907	27
28	825	1250	4480	3010	1980	2180	1050	912	931	704	731	897	28
29	849	1740	4410	2810	2070	995	1070	961	903	690	796	839	29
30	830	2170	4340	2700	1990	971	1150	903	885	685	787	868	30
31	792		4110	2850	1810	1810	1180			667	768		31
MEAN	1008	1128	3417	3392	2830	1823	1437	1062	894	739	655	782	MEAN
MAX.	1250	2170	4720	4230	3360	2420	1940	1320	1140	845	796	907	MAX.
MIN.	792	796	2140	2690	1980	1380	971	820	751	667	536	690	MIN.
AC.FT.	61990	67100	210100	208600	157200	112100	85520	65290	53180	45460	40280	46550	AC.FT.

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

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
1593	4767	20.55	12	23	1400	477	13.21	8	12	2300	1153000

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	CFS	OF RECORD		DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
				GAGE HT	DATE				FROM	TO			
37 38 28	121 13 37	SW29 3S 7E	45,550	36.87		2-28-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED	
							OCT 65-DATE	APR 52-SEP 65	1959	1959	0.00	USCGS	
											3.41	USED	

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	25	143	1020	1790	1690	557	102	56	46	333	30	46	1
2	27	145	1100	1810	1690	539	84	56	41	302	34	41	2
3	28	147	850	1790	1680	525	62	58	39	130	32	37	3
4	26	155	1440	1790	1680	595	61	57	39	213	30	35	4
5	31	153	1940	1780	1680	690	71	111	41	84	31	30	5
6	34	151	1920	1780	1670	664	51	276	42	53	33	28	6
7	32	157	1900	1770	1670	557	46	288	129	49	31	48	7
8	29	149	1890	1770	1670	595	40	436	1160	45	35	52	8
9	28	147	420	1760	1660	614	49	619	1550	36	32	37	9
10	28	147	674	1750	1660	548	86	711	2150	33	33	31	10
11	41	143	1900	1750	1660	552	78	530	1280	34	38	28	11
12	37	149	1890	1750	1660	466	71	363	1270	33	37	31	12
13	31	145	1890	1800	1660	269	51	308	1470	30	37	30	13
14	31	145	1880	1940	1650	393	50	295	2820	29	37	28	14
15	59	143	1870	1780	1650	444	64	367	2540	30	36	26	15
16	170	145	1880	1760	1640	548	66	1410	2040	30	34	29	16
17	174	145	1870	1750	1640	499	66	1580	1920	29	37	23	17
18	200	147	1870	1750	1640	460	55	1560	2750	29	37	25	18
19	262	149	1960	1560	1640	477	65	952	2130	30	37	30	19
20	183	248	1880	1730	1640	566	58	301	1860	31	42	28	20
21	176	507	2020	1730	1630	659	48	221	1680	30	45	27	21
22	176	521	1900	1730	1590	664	67	68	1570	30	43	28	22
23	176	521	1850	1730	848	566	252	51	1190	30	41	28	23
24	178	507	1840	1730	587	557	285	46	1140	31	42	28	24
25	176	529	1830	1720	559	471	282	46	1070	30	39	27	25
26	168	579	1820	1710	544	165	239	46	729	28	41	31	26
27	102	638	1820	1710	540	342	64	46	3550	27	39	35	27
28	97	1020	1810	1700	552	356	54	56	2400	28	42	49	28
29	94	1230	1800	1700	338	338	60	571	457	33	45	87	29
30	94	1010	1800	1700	360	360	60	377	652	29	47	100	30
31	132		1790	1700	255	255		64		29	49		31
MEAN	98.2	337	1688	1749	1431	493	89.6	383	1325	61.6	37.6	36.8	MEAN
MAX.	262	1230	2020	1940	1690	690	285	1580	3550	333	49	100	MAX.
MIN.	25	143	420	1560	540	165	40	46	39	27	30	23	MIN.
AC. FT.	6040	20060	103800	107500	79500	30330	5330	23570	78850	3788	2313	2188	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
640		5570	10.23	6	27	1630	23	1.33	9	17	0000	463300

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				
			CFS	GAGE HT.	DATE			FROM	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					117.21	USGSGS
						APR 40-DATE						

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	311	227	1250	1700	1640	673	597	383	585	1010	276	277	1
2	340	244	1170	1710	1640	663	553	441	495	788	293	260	2
3	327	248	1280	1710	1640	654	504	448	453	708	284	263	3
4	319	263	1020	1700	1630	667	455	436	415	605	253	253	4
5	322	277	1270	1690	1640	716	446	426	438	628	239	298	5
6	341	286	1640	1690	1630	775	392	450	507	497	250	309	6
7	315	291	1680	1690	1630	766	391	522	470	423	256	319	7
8	327	329	1690	1690	1620	748	376	656	415	425	248	264	8
9	332	290	1650	1680	1620	783	391	837	988	416	250	241	9
10	314	267	902	1670	1620	727	375	842	1430	380	260	228	10
11	319	260	800	1670	1620	691	425	826	1780	361	267	260	11
12	319	257	1500	1660	1610	669	426	781	1480	359	263	261	12
13	356	255	1650	1670	1610	725	408	687	1430	353	253	264	13
14	361	253	1680	1710	1610	585	441	609	1600	327	309	222	14
15	392	252	1690	1780	1600	595	392	537	2340	327	340	211	15
16	484	251	1700	1710	1600	599	433	615	2420	292	286	228	16
17	531	250	1720	1680	1600	714	465	1160	2130	284	286	222	17
18	416	250	1720	1680	1590	719	506	1430	2010	358	277	232	18
19	373	250	1740	1670	1590	757	518	1460	2370	324	237	223	19
20	391	250	1810	1580	1590	755	513	1070	2170	291	255	221	20
21	334	269	1760	1640	1580	721	484	755	1990	255	260	234	21
22	312	415	1850	1650	1580	823	394	632	1750	247	284	264	22
23	299	493	1800	1650	1520	810	399	495	1660	237	349	347	23
24	294	520	1740	1650	1090	806	490	436	1370	260	349	334	24
25	288	540	1720	1650	851	781	572	402	1320	279	287	340	25
26	283	576	1720	1650	766	904	578	386	1250	340	280	378	26
27	279	619	1720	1640	719	832	529	372	1090	315	244	463	27
28	255	638	1720	1640	696	844	436	448	2490	315	263	520	28
29	233	1100	1710	1650	862	384	481	481	2430	298	297	470	29
30	224	1530	1710	1640	761	387	682	682	1020	263	318	479	30
31	221		1710	1640	736		764			248	306		31
MEAN	329	398	1572	1672	1469	737	455	660	1413	394	278	297	MEAN
MAX	531	1530	1850	1780	1640	904	597	1460	2490	1010	349	520	MAX
MIN.	221	227	800	1580	696	585	375	372	415	237	237	211	MIN.
AC. FT.	20260	23700	96640	102800	81580	45350	27090	40600	84070	24220	17090	17660	AC. FT.

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

MEAN DISCHARGE	DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
803	3410	38.85	6	29	0140	198	27.13	9	15	1900	581100	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USCGGS	
								1963	1969	0.37	USCGGS	
								1970		0.00	USCGGS	

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	807020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1420	1120	3580	5880	4730	2620	2270	1390	1910	2040	780	1000	1
2	1530	1140	3430	5920	4740	2570	2130	1560	1760	1700	870	1010	2
3	1550	1150	3590	6080	5100	2420	2050	1760	1650	1530	870	980	3
4	1590	1190	3590	6110	4980	2380	2000	1830	1600	1490	790	986	4
5	1600	1270	3640	6040	4710	2400	1820	1860	1500	1530	775	1020	5
6	1640	1360	4620	5780	4670	2380	1820	1900	1440	1370	770	1010	6
7	1570	1470	5230	5100	4700	2390	1930	1860	1480	1180	830	1030	7
8	1530	1530	5270	4780	4700	2470	1980	1960	1380	1140	845	986	8
9	1500	1520	4730	4710	4580	2440	1940	2360	1550	1090	850	997	9
10	1540	1480	3830	4660	4600	2280	1950	2620	2030	1050	795	930	10
11	1570	1470	3260	4560	4620	2280	2050	2430	2470	1080	757	940	11
12	1560	1550	3590	4410	4740	2300	2000	2240	2450	1110	762	1110	12
13	1550	1560	3900	4380	4690	2470	1740	1980	2350	1050	734	1150	13
14	1590	1590	4150	5070	4290	2690	1980	1860	2330	940	795	1040	14
15	1650	1600	4350	5660	4010	3020	2150	1650	2760	900	950	935	15
16	1820	1570	4550	5900	4140	3140	2060	1590	3060	865	1010	890	16
17	1860	1600	4660	5530	4630	3060	2240	1840	2890	860	945	890	17
18	1670	1570	5060	5150	4670	2860	2440	2260	2700	945	875	945	18
19	1530	1540	5470	5080	4670	2630	2570	2330	2860	1040	870	986	19
20	1440	1520	5760	5140	4580	2500	2500	2270	3030	930	890	1050	20
21	1370	1520	6100	5160	4560	2330	2440	1840	2960	830	830	1020	21
22	1300	1620	6330	5220	4510	2320	2110	1700	2590	762	930	1050	22
23	1280	1750	6630	5230	4410	2290	1700	1530	2510	757	1070	1120	23
24	1280	1800	6610	5460	3980	2290	1660	1520	2360	748	1080	1260	24
25	1290	1860	6500	5560	3830	2310	1720	1390	2210	805	970	1300	25
26	1250	1950	6510	5370	3470	2880	1680	1300	2400	935	870	1350	26
27	1240	1990	6500	5030	2990	3220	1580	1230	2280	905	945	1440	27
28	1200	2040	6400	4780	2660	3100	1550	1310	2860	905	925	1510	28
29	1200	2750	6310	4560	2970	2970	1410	1590	3900	875	1060	1480	29
30	1190	3570	6240	4440	2760	2760	1370	1790	2390	855	1120	1500	30
31	1140		5970	4560	2500			2060		825	1080		31
MEAN	1466	1655	5044	5204	4391	2589	1961	1833	2322	1066	892	1097	MEAN
MAX.	1860	3570	6630	6110	5100	3220	2570	3900	2040	1120	1510	1510	MAX.
MIN.	1140	1120	3260	4380	2660	2280	1370	1230	1380	748	734	890	MIN.
AC. FT.	90150	98480	310100	320000	243900	159200	116700	112700	138200	65540	54830	65290	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
2452	6710	16.69	12	23	1530	734	9.11	8	13	DAILY MEAN	1775000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.O.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE NT.	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12-9-50	JUL 22-DEC 25		1931	1959	8.4	USCGS
			52600	34.55	1-27-69	JAN 24-FEB 25 JUN 25-OCT 28 MAY 29-DATE		1931	1959	5.06	USCGS
								1959		0.00	USCGS

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

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C01120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #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													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.

NO FLOW

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

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

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 10	119 50	NW20 20S 20E	4102a		6-12-69	1937-DATE					

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

a Maximum discharge since 1950.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	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													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 MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

NO FLOW

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- END *

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

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 12 42	119 34 05	NE 10 20S 22E				1921-DATE					

Station located downstream from Cross Creek Weir, 4 miles east of Guernsey, Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03913	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4	0			0	0	9	6	0	9	8	9	1
2	4	0			0	0	9	6	0	12	8	9	2
3	4	0			0	0	9	5	4	13	8	9	3
4	4	0			5	0	9	4	5	12	8	6	4
5	4	0			6	0	7	3	5	12	7	4	5
6	4	0			5	0	6	3	5	12	6	4	6
7	4	0			5	3	6	3	5	13	5	4	7
8	1	0			5	4	6	1	2	10	6	4	8
9	0	0			5	5	6	0	0	9	6	4	9
10	0	0			5	5	4	0	3	9	6	1	10
11	0	4			5	5	4	0	4	9	6	0	11
12	0	1			5	5	4	0	5	10	6	0	12
13	3	0			5	3	3	0	6	11	9	0	13
14	4	0			5	3	3	2	6	9	9	0	14
15	1	0			5	3	3	3	6	6	9	3	15
16	0	0			5	3	3	3	6	4	9	4	16
17	0	0			5	5	3	2	5	4	11	4	17
18	0	0			5	7	3	2	3	5	13	4	18
19	0	0			5	7	3	2	3	7	13	4	19
20	0	0			5	8	3	2	3	10	13	4	20
21	3	0			5	9	3	2	3	12	11	4	21
22	4	0			5	9	3	2	3	13	10	4	22
23	1	0			5	9	3	3	5	15	10	4	23
24	0	0			0	7	3	3	6	16	8	4	24
25	0	0			0	6	3	3	7	16	6	4	25
26	0	0			0	5	3	4	7	15	6	1	26
27	0	0			0	4	3	5	6	11	7	0	27
28	0	0			0	4	3	6	5	10	8	0	28
29	0	0			0	5	3	4	5	8	8	0	29
30	0	0			0	8	3	4	5	8	9	0	30
31	0	0			0	9	3	1	8	8	9	0	31
MEAN	1.5	0.2			3.5	4.6	4.4	2.7	4.3	10.3	8.3	3.3	MEAN
MAX.	4	4			6	9	9	6	7	16	13	9	MAX.
MIN.	0	0			0	0	3	0	0	4	5	0	MIN.
AC.FT.	89	10			192	282	264	167	254	631	512	194	AC.FT.

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

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3.6	17	0.49	7	24	0800	0					2595

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LDNGITUDE	1/4 SEC T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD			ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT	DATE			FROM	TO				
36 05 00	119 04 50	SW20 21S 27E											

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					114								1
2					171								2
3					182								3
4					175								4
5					139								5
6					120								6
7					120								7
8					124								8
9					126								9
10					139								10
11					147								11
12	N	N	N	N	41	N	N	N	N	N	N	N	12
13	O	O	O	O	0	O	O	O	O	O	O	O	13
14					0								14
15					0								15
16	F	F	F	F	0	F	F	F	F	F	F	F	16
17	L	L	L	L	0	L	L	L	L	L	L	L	17
18	O	O	O	O	98	O	O	O	O	O	O	O	18
19	W	W	W	W	130	W	W	W	W	W	W	W	19
20					130								20
21					130								21
22					130								22
23					130								23
24					126								24
25					109								25
26					34								26
27					0								27
28					0								28
29													29
30													30
31													31
MEAN					93.4								MEAN
MAX.					182								MAX.
MIN.					0								MIN.
AC.FT.					5187								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
7.2		182	2.03	2	2	0900	0		10	1	0000	5187

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 25	119 05 15	NW29 21S 27E				MAY 50-DATE					

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	115.0	191.0	75.7	5.8							1
2		0	195.0	200.0	157.0	0							2
3		0	222.0*	93.0	174.0*	0							3
4		0	182.0	0	174.0	0							4
5		0	169.0	0	136.0	0							5
6		0	169.0	146.6*	111.0	0							6
7		0	157.0 *	240.0	115.0	0							7
8		0	87.0	253.0	123.0*	0							8
9		0	0.5	249.0	123.0	0							9
10		0	0	240.0	136.0	0							10
11		0	0	144.0	152.0	0							11
12	N	0	0	9.0*	53.0	0	N	N	N	N	N	N	12
13	O	0	0	80.0	0	0	O	O	O	O	O	O	13
14		0	0	132.0	0	0							14
15		0	109.2	144.0	0	0							15
16	F	0	182.0	144.0	0	0	F	F	F	F	F	F	16
17	L	0	191.0	140.0	0	0	L	L	L	L	L	L	17
18	O	0	200.0*	132.0*	81.7	0	O	O	O	O	O	O	18
19	W	0	209.0	152.0	144.0	0	W	W	W	W	W	W	19
20		0	195.0	187.0	148.0	0							20
21		0	195.0	204.0	136.0*	0							21
22		0	191.0*	128.0	128.0	0							22
23		0	222.0	2.8	128.0	0							23
24		0	8.2	0	128.0	0							24
25		0	0	0	111.0	0							25
26		0	0	0	35.8	0							26
27		0	0	0	0	0							27
28		0	1.4	0	3.6	0							28
29		0	165.0	0	0	0							29
20		5.8	191.0	0	0	0							30
31			191.0	0	0	0							31
MEAN		0.2	114.4	103.6	91.9	0.2							MEAN
MAX.		5.8	222.0	253.0	174.0	5.8							MAX.
MIN.		0	0	0	0	0							MIN.
AC. FT.		12	7036	6370	5105	12							AC. FT.

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

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL
25.6	267	0.0	18535

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	8850	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
				CF5	GAGE HT.	DATE			FROM	TO		
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 and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	7.5	13.5			0	15.5*	0	9.0	12.2*	11.3	11.3	9.6	1
2	14.5	13.2*			0	15.5	0	11.0	13.2	11.3	11.6*	9.6	2
3	13.2	13.5			0	15.5	0	8.4*	13.2	11.3	13.9	9.6	3
4	12.5	13.5			0	15.5	0	7.8	13.2	11.3	15.5	9.6	4
5	11.9	10.7			0	14.8	0	8.1	12.9	11.3	15.5	9.6	5
6	11.3	6.8			0	9.6	0	10.7	12.5	11.0*	14.8	9.6	6
7	11.3	7.2			0	6.0	0	12.2	14.2*	10.7	14.2	11.9*	7
8	10.7	7.2			0	6.5*	0	12.2	14.2	10.7	13.2	12.9	8
9	10.4	7.2*			0	6.8	9.4	12.2	10.4	11.0	13.9	13.2	9
10	10.7	7.5			0	6.8	15.2	12.9*	6.8	11.3	14.8	12.9	10
11	11.3	7.2			0	6.8	15.2	12.5	7.2	11.6	14.5	13.2	11
12	11.0*	7.5	N	N	0	6.8	16.5	12.9	7.2	11.9*	14.5	13.5	12
13	11.6	7.5	O	O	0	6.8	16.2*	14.5	7.2	11.6	14.5	13.2*	13
14	12.5	7.5			0	6.8	15.5	16.5	10.7*	11.6	14.5	12.9	14
15	12.9	7.5			0	6.0*	15.5	15.8	11.6	11.9	14.5	12.9	15
16	13.2	7.2*	F	F	0	5.4	14.5	16.2	11.9	11.9	14.5*	12.9	16
17	12.2	6.2	L	L	0	5.2	12.9	15.8*	11.9	11.9	14.2	13.5	17
18	12.2	6.5	O	O	9.1	5.0	12.2	15.8	11.9	11.6	13.9	14.5	18
19	11.9	6.5	W	W	15.2*	2.7	11.9*	15.8	11.6	11.3*	13.9	15.2	19
20	12.9	7.2			14.8	0	12.5	15.8	11.3	11.0	13.5	12.2*	20
21	13.2	7.5			14.8	0	11.9	16.5	10.7*	11.0	14.5	11.0	21
22	12.5	6.8			14.8*	0	11.6	16.5	11.3	11.0	14.5	13.2	22
23	12.5	6.8*			14.8	0	11.6	15.8	12.2	11.3	15.5*	15.5	23
24	13.9	6.8			14.8	0	11.9	18.6*	12.2	11.3	15.8	15.2	24
25	14.2	7.2			14.5	0	11.6	19.6	12.2	11.3	16.2	15.5	25
26	13.9	7.2			14.5	0	11.0*	20.0	11.6	11.0*	15.8	15.5	26
27	13.5*	2.7			14.8	0	11.0	7.1	10.4	10.7	13.2	15.2	27
28	13.5	0			14.8	0	11.9	0	10.4*	11.0	13.2	15.2	28
29	13.9	0			0	0	11.0	0	11.3	11.6	13.2	14.8	29
30	13.5	0			0	0	8.7*	0	11.3	11.6	13.2	14.5	30
31	13.2				0	0	0	7.4	0	11.3	11.0*		31
MEAN	12.4	7.2			5.6	5.3	9.3	12.2	11.3	11.3	14.1	12.9	MEAN
MAX.	14.5	13.5			15.2	15.5	16.5	20.0	14.2	11.9	16.2	15.5	MAX.
MIN.	7.5	0			0	0	0	0	6.8	10.7	11.0	9.6	MIN.
AC. FT.	761	429			311	325	555	749	672	695	867	770	AC. FT.

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

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRES FEET		
8.5	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	6134

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

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	0	64.0	0		0	0	0		0	0	0	1
2	0	0	96.2	0.6		0	0	0		0	0	0	2
3	0	0	102.8	0.6		0	0	0		0	0	0	3
4	0	0	96.2	0		0	0	0		0	1.8	0	4
5	0	0	29.4	0		0	0	0		0	29.4*	0	5
6	0	0	0.2	0		0	0	0		8.3	35.4	0	6
7	0	0	0	0		0	0	0		37.0*	36.2	0	7
8	0	0	0	0		0	0	0		44.8	37.0	0	8
9	0	0	0	0		0	0	0		42.8	38.3*	0	9
10	0	0	0	0		0	0	0		37.0	33.4	0	10
11	0	0	0	0		0	0	0		32.8	28.0	0	11
12	0	0	0	0	N	0.2	0	0	N	33.4*	24.0	0	12
13	0	0	0	0.1	O	11.8	0	0	O	33.4	19.4	0.8	13
14	0	0	0	0		32.2	0	0		35.4	18.6	0	14
15	0	0	0	0		32.2*	0	0		36.2	17.8	0	15
16	0	0	0	0	F	24.8	0	0	F	34.8	16.8*	0	16
17	2.4	0	0.2	0	L	18.6	0.7	0	L	35.4	9.8	0	17
18	18.6	0	0	0	O	17.8	0.2	0	O	34.0	0	0	18
19	22.8	0	0	40.3	W	17.8	0	0	W	29.4*	0	0	19
20	24.0	0	0	82.6*		18.6	0	0		27.0	0	24.4*	20
21	24.0	0	0.9	47.2		19.4	0	0		27.0	0	32.2	21
22	22.8	0	0.9	20.0		20.0*	0	0		27.0	4.5	30.4	22
23	23.4	0	0.1	0		15.8	0	0		10.6	21.0	25.8	23
24	7.0	0	0	0		0.8	0	0		0	22.8*	25.8	24
25	0	0.9	0	0		0	0	0		0	18.2	26.2	25
26	0	0.9	0	0		0	0	0		0	21.9*	26.2	26
27	0	0	0	0		0	0	0.8		0	23.4	27.0	27
28	0	0	0	0		0	0	0		0	22.4	27.0	28
29	0	1.0	0	0		0	0	0		0	22.8	27.0	29
30	0	21.0	0	0		0	0	0		0	8.4	27.0	30
31	0		0	0		0	0	0		0	0	0	31
MEAN	4.7	0.8	12.6	6.2		7.4	0.0	0.0		18.3	16.5	10.0	MEAN
MAX	24.0	21.0	102.8	82.6		32.2	0.7	0.8		44.8	38.3	32.2	MAX
MIN.	0	0	0	0		0	0	0		0	0	0	MIN.
AC. FT.	288	47	775	380		456	2	2		1123	1014	595	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
6.5											4682

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	GATE			FROM	TO			
36 03 29	118 59 08	SE31 21S 28E						JAN 42-DATE			0.00	LICAL

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	0	0.4			0	0	0	0	0	0	1.8	1
2	0	0	1.3			0	0	0	0	0	0	2.6	2
3	0	0	1.4			0	0	0	0	0	0	0	3
4	0	0	1.4			0	0	0	1.3	0	0	0	4
5	0	0	0.8			0	0	0	4.5	0	3.6	0	5
6	0	0	0			0	0	0	3.6	0	10.2*	0	6
7	0	0	0			0	0	0	3.8	0	11.3	0	7
8	0	0	0			0	0	0	3.6	5.5*	11.9	0	8
9	0	0	0			0	0	0	5.6	7.6	12.0*	0	9
10	0	0	0			0	0	0	2.6	7.2	11.6	0	10
11	0	0	0			0	0	0	0	7.2	10.9	0	11
12	0	0	0	N	N	0	0	0	0	8.7	10.2	0	12
13	0	0	0	O	O	0	0	0	0	9.8	8.2	0	13
14	0	0	0			6.4*	0	0	0	10.2	7.0	0	14
15	0	0	0			9.0*	0	0	0	10.5	6.3	0	15
16	0	0	0	F	F	7.8	0	0	1.7	10.5	6.5*	0	16
17	0	0	0	L	L	7.2	0	0	5.0	10.3	4.7	0	17
18	0	0	0	O	O	7.0	0	0	5.3	9.4	2.5	0	18
19	2.3	0	0	W	W	6.3	0	0	5.2	9.9*	2.7	0	19
20	5.0	0	0			6.2	0	0	5.2	10.4	1.6	1.7	20
21	5.3	0	0.2			7.0	0	0	5.6	10.4	0	7.9*	21
22	5.3	0	0			6.7*	0.6	0	5.5	10.4	0	8.6	22
23	5.3	0	0			6.1	3.5	0	5.0	7.4	5.3	7.6	23
24	3.4	0	0			1.1	3.5	0	5.2	0.1	8.8*	7.2	24
25	0	0.2	0			0	4.1	0	0	0	5.8	7.5	25
26	0	0.1	0			0	3.6	0	0	0	8.0*	7.9	26
27	0	0	0			0	3.6	0.3	0	0	8.8	8.0	27
28	0	0	0			0	3.5	0	0	0	8.8	8.5	28
29	0	0.2	0			1.6	3.0	0	0	0	9.1	8.7*	29
30	0	0	0			4.0	1.7	0	0	0	6.6	8.8	30
31	0	0	0			2.4		0	0	0	0.2		31
MEAN	0.9	0.0	0.2			2.5	0.9	0.0	2.2	4.7	5.9	2.9	MEAN
MAX.	5.3	0.2	1.4			9.0	4.1	0.3	5.6	10.5	12.0	8.8	MAX.
MIN.	0	0	0			0	0	0	0	0	0	0	MIN.
AC. FT.	53	1	11			156	54	1	132	289	362	172	AC. FT.

E - ESTIMATED
 NE - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
1.7	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
											1231

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 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-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	CO3965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0	5.6*		0	3.8*	0	5.9	5.7	1
2					0	5.4		0	4.0	0	6.1*	5.7	2
3					0	5.4		0	4.0	0	6.2	5.8	3
4					0	5.3		0	4.0	0	6.2	2.1	4
5					0	5.2		0	4.0	0	6.1	0	5
6					0	3.0		0	4.4	0	6.1	0	6
7					0	5.3		0	5.0	3.3	5.3	0	7
8					0	4.7*		0	5.0	5.9*	4.8	0	8
9					0	3.4		0	5.0	5.7	4.7*	0	9
10					0	3.2		0	4.9	5.2	4.7	0	10
11					0	3.2		0	4.8	5.3	4.6	0	11
12	N	N	N	N	0	3.2	N	0	4.8	5.3*	4.7*	0	12
13	O	O	D	D	0	3.0	O	1.0*	5.0	5.3	4.8	0	13
14					0	2.9		2.7	2.3*	6.4	4.7	0	14
15					0	2.6*		2.8	0.3	6.4	4.5	0	15
16	F	F	F	F	0	2.4	F	2.9	0.2	6.2	4.4*	0	16
17	L	L	L	L	0	2.2	L	3.2*	0.2	6.2	4.4	0	17
18	O	O	O	O	2.6	2.2	O	3.5	0.1	6.2	4.2	0	18
19	W	W	W	W	5.0*	1.4	W	3.6	0.1	6.4*	4.1	0	19
20					4.8	0.4		3.6	0.2	6.4	4.1	0	20
21					5.0	0.3		3.6	0	6.2	4.1	0	21
22					5.0*	0.2		3.8	0	6.1	4.0	0	22
23					5.3	0.1		3.8	0	6.1	3.9*	0	23
24					5.3	0		4.5*	0	5.9	4.1	0	24
25					5.2	0		3.8	0	5.9	4.1	0	25
26					5.2	0		4.5	0	6.1*	4.1	0	26
27					5.4	0		4.7	0	6.2	3.6	0	27
28					5.3	0		4.4	0.1	6.2	3.7	0	28
29					0	0		4.1	0	6.2	3.5	0	29
30					0	0		4.1	0	6.1	3.9*	0	30
31					0	0		3.9	0	6.1	5.6	0	31
MEAN					1.9	2.3		2.2	2.1	4.8	4.7	0.6	MEAN
MAX.					5.4	5.6		4.7	5.0	6.4	6.2	5.8	MAX.
MIN.					0	0		0	0	0	3.5	0	MIN.
AC. FT.					107	140		136	123	292	288	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
1.6												1124

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

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.4	0.2	51.0	47.6	0.3	0.6	0.1	1.1	0.9	48.6	2.9	0.4	1
2	8.3	0.1	62.7	44.2	0.3	0.6	0.2	1.1	0	52.8	0.3	0.4	2
3	11.4	0	65.4*	34.8	0.3	0.6	0.3	1.1	0	50.5	3.6	0.4	3
4	11.8	0	62.7	13.2*	0.3	0.6	0.3	1.2	0	48.6	15.7	0.5	4
5	11.6	0	61.3	14.6	0.3	1.8	0.3	1.2	0	19.2	23.5*	0.6	5
6	11.4	0	61.3	51.0	0.3	1.4	0.1	1.3	0	0.3	22.6	0.6	6
7	9.4	0	61.8*	52.8	0.3	3.4	0.1	1.3	0	22.0	21.5	0.4	7
8	5.1	0	17.1	52.8	0.3	22.2*	0.2	1.3	0	30.7	21.5	0.3	8
9	2.5	0	0.1	52.4	0.3	31.4	0.3	1.2	0	0.6	21.6*	0.1	9
10	2.5	0	0	52.4	0.4	29.0	4.3	1.5	0	0.3	23.2	0	10
11	2.8	0	0	21.3*	0.4	33.9	10.8	2.6	0	0.1	26.2	0.2	11
12	0.6	0	0	0	0.4	36.5	39.1*	0.2	0	17.4	25.6	0.3	12
13	0	0	0	0	0.4	37.8	49.5	0	0	26.6*	23.5	0.1	13
14	0.6	0	22.0	0	0.4	35.2	59.4	0	40.5	26.2	21.3	0	14
15	0.5	0	53.4	0.3	0.4	9.0*	58.4	0	47.0*	26.6	18.1	0	15
16	0.6	0	54.0	0.4	0.3	0.3	57.0*	0.1	49.0	26.6	18.4*	0	16
17	0.7	0	51.0	0.4	0.3	0.2	45.1	0.1	50.0	22.9	21.0	0	17
18	0.7	0	50.0*	0.4	0.3	0.1	37.8	0	47.0*	20.7	9.4	0	18
19	0.6	0	50.0	0.4	0.4	0.1	14.2*	0	47.0	19.8*	0.7	0	19
20	0.3	0	50.0	32.4	0.4	0.1	1.6	0	47.6	20.4	0.5	0	20
21	0.4	0	50.0	52.0*	0.4	0	1.7	0	47.0*	20.4	0.4	0	21
22	0.4	0	50.5*	46.1	0.4	0	1.2	0	20.9	23.2	0.4	0	22
23	0.1	0	45.0	7.7	0.4	0	0.5	0	0.3	26.6	0.4	0	23
24	0	0	17.2	0.5	0.5	0	0.4	37.4	2.5	28.6	0.4	0	24
25	0.2	0	9.4	0.4	0.5	0	0.5	39.6	3.9	28.6	0.4	0	25
26	0.3	0	7.6	0.4	0.5	0	0.7	40.6*	0.2	30.6*	0.4*	0	26
27	0	0	6.6	0.4	0.5	0	0.8	37.0	0.3	28.0	0.3	0	27
28	0	0.2	20.4	0.4	0.6	0.6	1.0	24.1	31.8*	26.2	0.4	0	28
29	0	0.3	50.0*	0.4	0.6	1.1	1.1	18.1	48.0	25.8	0.5	0	29
30	0	28.2	50.0	0.4	0.1	0.1	1.1	17.8	48.6	24.5	0.4	0	30
31	0	0	50.0	0.3	0	0	0	10.6	0	13.7	0.4	0	31
MEAN	2.8	1.0	36.6	18.7	0.4	8.0	12.9	7.6	17.8	24.4	10.5	0.1	MEAN
MAX.	11.8	28.2	65.4	52.8	0.6	37.8	59.4	40.6	50.0	52.8	26.2	0.6	MAX.
MIN.	0	0	0	0	0	0	0.1	0	0	0.1	0.3	0	MIN.
AC. FT.	173	57	2248	1151	21	489	770	477	1056	1502	646	9	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
11.9												8599

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

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0					0	3.0	0	0	6.5*	5.9	2.4	1
2	0					0	5.0	2.0	0	5.9	0.6	0	2
3	0					0	6.4	6.0	0	5.6	3.2	0	3
4	0					0	6.2	8.8*	0	5.5	6.7*	0	4
5	0					0	6.1*	8.4	0	3.3	6.8	0	5
6	0					0	6.5	4.0	0	1.0	6.8	0	6
7	0					0	7.4	0	4.7*	0.9	5.9	0	7
8	0					0.8	7.5	0	7.7*	4.3	5.7	0	8
9	0					6.6	7.6	0	7.9	5.3*	6.7*	2.2*	9
10	0					8.7*	5.8	0	7.9	5.2	7.2	3.3	10
11	0					9.6	0	0	6.4	4.0	4.5	2.8	11
12	0	N	N	N	N	10.6	0	0	5.6	3.7*	0	3.1	12
13	0	O	O	O	O	9.6	0	0	5.5	5.1	0	3.2*	13
14	0					8.4	0	0	5.2*	5.7	0	2.5	14
15	0					9.6*	0	0	5.9	5.2	0	2.1	15
16	0	F	F	F	F	9.9	0	0	6.1	4.6	4.1	0.5	16
17	0	L	L	L	L	3.9	0	0	5.8	4.5	7.5*	0.6	17
18	0	O	O	O	O	0	0	0	7.6	4.6	7.0	0	18
19	1.2	W	W	W	W	0	0	0	7.4	5.1*	6.8	0.4	19
20	1.7					0	0	0	7.4	5.8	6.8	0.6*	20
21	0.6					0	0	0	7.2*	6.0	8.3	0.7	21
22	0					0	0	0	7.8	6.0	8.3	0.6	22
23	0					0	0	0	7.0	5.9	4.5*	0.9	23
24	0					0	0	0	5.6	5.8	1.3	1.2	24
25	0					0	0	0	3.6	5.7	3.9*	1.7	25
26	0					0	0	0.7	2.9	5.7	5.2	2.5	26
27	0					0	0	0.6	0.4	7.4*	5.5	1.6	27
28	0					0	0	0	0	8.7*	6.0	0.2	28
29	0					0	0	0	0	9.4	6.0	0.2*	29
30	0					0	0	0	4.9	9.0	5.8*	0.3	30
31	0					2.3		0		9.1	5.0		31
MEAN	0.1					2.6	2.0	1.0	4.4	5.5	4.9	1.1	MEAN
MAX.	1.7					10.6	7.6	8.8	7.9	9.4	8.3	3.3	MAX.
MIN.	0					0	0	0	0	0.9	0	0	MIN.
AC. FT.	7					159	122	60	259	338	301	67	AC. FT.

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

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1.8												1313

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

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

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	29.4	46.1					0	162.0	188.0	103.0	1
2		0	53.6	46.7					0	168.0	181.0*	107.0*	2
3		0	54.2**	28.6					0	163.0	177.0	101.0	3
4		0	47.2	0.2					0	169.0	178.0	94.8	4
5		0	45.1	0					0	175.0	179.0	109.2	5
6		0	50.9	32.7					0	184.0*	175.0	116.0	6
7		0	52.6**	44.0*					0	164.0	167.0	94.3	7
8		0	34.8	45.6					0	151.0	170.0	14.6	8
9		0	3.3	44.0					0	177.0	181.0*	0	9
10		0	0	43.0					0	182.0	180.0	0	10
11		0	0	25.4*					0	181.0	176.0	0	11
12	N	0	0	0.6	N	N	N	N	0	174.0*	166.0*	0	12
13	O	0	0	15.2	O	O	O	O	0	157.0	171.0	0	13
14		0	0	47.7					0	160.0	164.0	0	14
15		0	38.1	42.5					0	164.0	158.0	0	15
16	F	0	47.2	42.0	F	F	F	F	0	158.0	154.0*	0	16
17	L	0	42.5	42.0	L	L	L	L	0	161.0	146.0	0	17
18	O	0	40.0*	42.5*	O	O	O	O	0	160.0	138.0	0	18
19	W	0	40.5	41.5	W	W	W	W	0	161.0*	134.0	0	19
20		0	39.5	47.2					0	163.0	126.0	0	20
21		0	41.0	54.7					0	162.0	122.0	0	21
22		0	43.0*	40.0					0	159.0	126.0	0	22
23		0	46.7	1.0					0	154.0	132.0*	0	23
24		0	2.0	0					0	149.0	156.0	0	24
25		0	0	0					0	154.0	177.0*	0	25
26		0	0	0					0	164.0*	171.0	0	26
27		0	0	0					0	181.0	98.6	0	27
28		0	4.0	0					16.1	186.0	64.1*	0	28
29		0	48.3*	0					121.0*	185.0	62.2	0	29
30		6.5	46.1	0					155.0	187.0	64.1*	0	30
31			46.1	0						180.0	90.5*	0	31
MEAN		0.2	28.9	24.9					9.7	167.6	147.5	24.3	MEAN
MAX.		6.5	54.2	54.7					155	187	188	116	MAX.
MIN.		0	0	0					0	149	62.2	0	MIN.
AC. FT.		13	1777	1534					579	10304	9070	1448	AC. FT.

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

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
	DISCHARGE	GAGE HT	MD	DAY	TIME	DISCHARGE	GAGE HT	MD	DAY	TIME	ACRE FEET
34.2											24725

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC. T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	CO5150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	395	308	418	336	564	882	591	453	447	1372	1353	539	1
2	391	298	378	325	556	879	528	461	439	1320	1385	514	2
3	386	339	349	331	582	868	533	505	452	1277	1426	467	3
4	388	344	402	327	604	881	564	531	479	1251	1435	434	4
5	378	350	361	324	601	874	583	549	502	1301	1370	410	5
6	388	353	126	325	572	846	619	568	570	1351	1289	413	6
7	421	332	94	331	566	824	601	548	609	1367	1216	409	7
8	440	327	77	382	594	918	603	472	624	1334	1218	401	8
9	439	338	53	337	598	977	564	443	657	1338	1239	392	9
10	388	247	31	342	612	993	527	459	710	1260	1267	396	10
11	287	236	26	337	604	985	639	502	773	1240	1297	400	11
12	302	214	36	344	611	971	665	451	817	1233	1283	393	12
13	310	210	98	348	622	947	622	444	904	1254	1180	404	13
14	346	205	176	362	631	872	561	446	922	1320	1061	423	14
15	345	201	254	352	643	902	499	442	952	1387	1079	461	15
16	333	195	259	343	686	909	460	489	1013	1361	1166	486	16
17	290	216	277	336	698	783	503	474	1084	1305	1163	481	17
18	304	272	309	384	682	719	471	487	1111	1328	1154	420	18
19	332	261	315	353	671	664	444	494	1119	1384	1146	409	19
20	334	251	323	334	597	652	439	527	1214	1463	1065	401	20
21	339	247	327	356	626	691	448	551	1224	1488	978	390	21
22	342	244	320	429	652	721	442	592	1237	1464	897	370	22
23	325	248	314	568	695	754	451	613	1272	1429	866	343	23
24	295	326	324	606	691	747	447	659	1341	1355	843	327	24
25	294	448	331	614	696	678	438	714	1365	1269	817	327	25
26	275	363	338	636	704	644	449	772	1377	1306	661	335	26
27	311	389	343	631	726	618	451	646	1419	1304	605	304	27
28	335	402	331	623	824	598	458	481	1434	1286	530	282	28
29	362	474	339	591	579	579	471	455	1425	1348	539	265	29
30	346	552	333	611	586	586	462	446	1408	1364	541	262	30
31	310		326	579	535	535		434		1347	522		31
MEAN	346	306	258	422	640	790	518	520	963	1336	1051	395	MEAN
MAX.	440	552	418	636	824	993	665	772	1434	1488	1435	539	MAX.
MIN.	275	195	26	324	556	535	438	434	439	1233	522	262	MIN.
AC. FT.	21285	18228	15844	25978	35520	48589	30809	31950	57322	82128	64643	23520	AC. FT.

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

MEAN		MAXIMUM				MINIMUM				TOTAL		
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
630		1506		7			22		12			455800

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
35 25 9	118 56 8	SW 2 29S 28E	36000	14.2	11-19-50	1893-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-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C07120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													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 MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

INSUFFICIENT DATA TO PUBLISH DAILY FLOWS

E - ESTIMATED
NR - NO RECORD
o - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND

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

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1.4 SEC. T. & R. M D B. & M.	OF RECORD	CF5	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
									FROM	TO			
35 12 21	119 24 35	NW28 31S 24E			2.9	8-14-65			NOV 64-DATE	1964		0.00	LOCAL

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

DIVERSIONS

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

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

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

TABLE B-4
 DIVERSIONS - SAN JOAQUIN RIVER
 (Fremont Ford Bridge to Gravelly Ford)
 October 1970 through September 1971

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET		
			OCT.	NOV.	DEC.	JAN	FEB	MAR	APR.	MAY	JUNE	JULY	AUG	SEPT.			
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5																
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVINSON--	136.7																
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.0																
San Luis Canal Company	186.6L	Gravity	7918	4943	1932			3328	14539	13742	20594	25509	28951	27769	18798		168023
--FIREBAUGH BRIDGE--	198.4																
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--																	
--MENDOTA DAM--	208.63																
Central California I. D.	208.8 L	Gravity	11716	10322	22	752	16362	51553	44167	71044	74570	78833	81968	43478	a	484787	
--FRESNO SLOUGH--	b	209.0L															
--DELTA-MENDOTA CANAL--	b	(0.2L)															
Firebaugh Canal Company	b	(0.4L)	3003	123		926	4090	3217	5987	5341	6854	7087	6206	5402	c	48236	
Producers Cotton Oil d Company	b	(3.4L)					145	534	125	236	244	466	232	30		2012	
State of California Mendota Waterfowl Management	b	(6.45-8.20)	5830	1837	139				52	1317	2448	2479	3001	5429		22532	
Fresno Slough Water District	b	(9.20-10.50)	99			212	587	369	226	300	657	720	861	196		4227	
--JAMES BYPASS--	(11.80R)																
Traction Ranch	e	(0.75)				99	750	424	543	361	742	1053	1343	579		5894	
Reclamation District 1606	e	(1.50)					97		42		204	186	177			706	
James Irrigation District	e	(4.4)				365	6694	2247	2967	3634	6587	8319	7918	2967		41698	
Tranquillity Irrigation District	b	(12.00-13.75)	559			351	5633	1586	1650	1613	5772	6730	5693	1230		30817	
Melvin D. Hughes	b	(12.20)						35				32	30			97	
--LONE WILLOW SLOUGH--	219.8 R																
Columbia Canal Company	219.8 R		2840	1291	119	63	4372	4568	5214	6750	8509	9441	9104	6918		59189	
State Center Land Company	f	1-6		232	167									149		548	
M. Beck	g	1-8		23	18											41	
Tulle Gun Club	h	1-8		9												9	
Westlands Water District			768		258		2860	2708	2755	1284	3289	4610	4191	1003	i	23726	
Grasslands			21749	2678												11221	
J. W. Wilson							147	58			54	83	60			402	
Laguna Water District											50	200	99	51		400	
Pacheco Water District									1500	500	1000	2499	1500			6999	
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83																
--GRAVELLY FORD CANAL--	232.8 R																
<u>FREMONT FORD BRIDGE TO GRAVELLY FORD</u>																	
Total			54746	21379	2470	2768	45065	81890	78918	112974	136489	151689	150152	97451		935991	
Average cubic feet per second			890	359	40	45	811	1332	1326	1837	2294	2467	2442	1638		1293	
Monthly use in percent of seasonal			5.8	2.3	0.3	0.3	4.8	8.8	8.4	12.1	14.6	16.2	16.0	10.4			

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and include operational spill. Acre-foot 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 Formerly listed as M. L. Dudley.

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

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

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

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

i Does not include 990 acre-feet delivered from the Delta-Mendota Canal via San Luis Water District to Westlands Water District.

TABLE B-4 (Cont.)
 DIVERSIONS - TULE RIVER
 October 1970 through September 1971

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																
Tampbell-Moreland Ditch	2.4 L	Grav.	61	429			311	325	555	749	672	695	877	775			6134
--PORTER SLOUGH--	2.4 F																
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (8 LANE BRIDGE)--	a (2.4)																
--PIONEER SPILL--	a (3.7R)																
Porter Slough Ditch	a (4.5F)	Gravity	53	1	11			156	54	1	132	289	362	112			1231
--NEWCOMB AVENUE BRIDGE--	a (6.1)																
Vandalia Ditch	3.1 L	Gravity					107	140		136	123	292	288	38			1124
--SANTA FE RAILROAD BRIDGE--	5.1																
Poplar Ditch	5.8 L	Gravity	173	57	2248	1151	21	489	770	477	1056	1502	646	9			8599
--MAIN STREET BRIDGE--	5.9																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0																
Hubbs-Miner Ditch	6.4 R	Gravity						159	122	60	259	338	301	67			1313
--STATE HIGHWAY 65 BRIDGE--	6.6																
--OLIVE AVENUE BRIDGE--	9.9																
--FRIANT-KERN CANAL CROSSING--	10.5																
Woods-Central Ditch	11.0 L	Gravity		13	1777	1534					579	10304	9070	1448			24725
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.8																
--OTTLE BRIDGE--	14.4																
<u>TULE RIVER</u>																	
Total			994	500	4036	2685	439	1269	1501	1423	2821	13420	11534	2504			43126
Average cubic feet per second			16	8	66	44	8	21	25	23	47	218	188	42			60
Monthly use in percent of seasonal			2.3	1.2	9.4	6.2	1.0	2.9	3.5	3.3	6.5	31.1	26.8	5.8			

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 B-5
DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
October 1970 through September 1971

WATER USER	DIVERSION												ACREAGE IRRIGATED						
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL	RICE				
<u>Friant-Kern Canal</u>				<u>San Joaquin River^a</u>															
Total acre-feet diverted	15430	14900	0	12130	125700	106700	72400	51850	123200	213700	210700	97920	1092700		Not Available				
Average cubic feet per second	576	252	0	197	2263	1736	1218	843	2070	3801	3546	1646	1509						
Monthly use in percent of seasonal	3.2	1.4	0	1.1	11.5	9.8	6.6	4.7	11.3	21.4	20.0	9.8							
<u>Madera Canal</u>				<u>Merced River</u>															
Total acre-feet diverted	14920	599	0	0	10130	10380	9840	13210	47720	70350	65890	17520	280000		Not Available				
Average cubic feet per second	243	10	0	0	182	494	161	215	802	1134	1072	295	368						
Monthly use in percent of seasonal	5.3	0.2	0	0	3.6	10.8	3.6	4.7	17.0	25.1	23.5	6.2							
<u>Merced Irrigation District</u>				<u>Merced River</u>															
<u>Main Canal</u>				15196	655	2535	3743	4723	39013	46390	53689	79346	108567	88196	6038	502435	106994	6046	
<u>Northside Canal</u>				1250	69	123	97	46	1158	2406	2944	3771	4503	4211	2870				
Total acre-feet diverted	16446	724	2658	3840	4769	40171	48796	56633	83117	113070	92409	63250	525883						
Average cubic feet per second	267	12	43	62	86	653	820	921	1397	1839	1503	1063	726						
Monthly use in percent of seasonal	3.1	0.1	0.5	0.7	0.9	7.7	9.3	10.8	15.8	21.5	17.6	12.0							
<u>Turlock Irrigation District</u>				<u>Tuolumne River</u>															
Total acre-feet diverted	20313	250	179	28689	6976	62497	61577	79990	74461	103815	100249	49833	588849	e	172308				
Average cubic feet per second	330	4	3	467	126	1016	1034	1301	1251	1669	1630	837	813						
Monthly use in percent of seasonal	3.5	0	0	4.9	1.2	10.6	10.5	13.6	12.6	17.6	17.0	8.5							
	*																		
<u>Modesto Irrigation District</u>				<u>San Joaquin River</u>															
Total acre-feet diverted	9986	0	0	0	32	33028	37995	32840	41208	52356	45051	18560	273038	g	62713	16			
Average cubic feet per second	162	0	0	0	1	537	638	534	693	851	733	312	374						
Monthly use in percent of seasonal	3.7	0	0	0	0	12.2	14.0	12.1	15.2	19.3	16.6	6.9							
<u>Waterford Irrigation District</u>				<u>San Joaquin River</u>															
Total acre-feet diverted	2414	0	0	0	2402	6235	6510	6962	7692	6899	4950	44044	1	7288					
Average cubic feet per second	39	0	0	0	39	104	106	117	125	112	83	61							
Monthly use in percent of seasonal	5.5	0	0	0	5.4	14.1	14.8	15.8	17.5	15.7	11.2								
<u>Oakdale Irrigation District</u>				<u>Stanislaus River</u>															
<u>Northside Canal</u>				8699	0	0	0	0	6171	17819	21666	23220	20248	19554	16712	134089	3	23772	3929
<u>Southside Canal</u>				12940	0	0	0	0	10987	25303	27243	30641	29253	28922	24664	189953	4	34668	532
Total acre-feet diverted	21639	0	0	0	0	17158	43122	48909	53861	49501	48476	41376	324042	m	58440	4461			
Average cubic feet per second	352	0	0	0	0	279	725	795	905	805	788	695	448						
Monthly use in percent of seasonal	6.7	0	0	0	0	5.3	13.3	15.1	16.6	15.3	15.0	12.7							
<u>South San Joaquin Irrigation District</u>				<u>San Joaquin River</u>															
Total acre-feet diverted	4715	0	0	0	4367	25220	43627	46253	46196	48435	47464	34661	300930	n	64121	253			
Average cubic feet per second	77	0	0	0	79	410	733	752	776	788	732	583	416						
Monthly use in percent of seasonal	1.6	0	0	0	1.4	8.4	14.5	15.4	15.3	16.1	15.8	11.5							

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 Of this acreage, 2,809 were double cropped. Does not include an undetermined amount of riparian water users acreage.

c An additional 161,522 acre-feet of water was pumped from wells.

d An additional 156,766 acre-feet of water was pumped from wells.

e Of this acreage, 26,445 were double cropped.

f An additional 70,740 acre-feet of water was pumped from wells.

g Of this acreage, 9,118 were double cropped.

h An additional 1,218 acre-feet of water was pumped from wells.

i Of this acreage, 219 were double cropped.

j Of this acreage, 713 were double cropped.

k Of this acreage, 599 were double cropped.

l This acreage also received 49,775 acre-feet of water from wells and controlled drainage.

m This acreage also received an undetermined amount of well water and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 3,653 were double cropped.

n This acreage also received an undetermined amount of well water and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 3,653 were double cropped.

TABLE 8-6
 DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
 October 1970 through September 1971

WATER USER	MILE POST FROM CANAL HEAD		MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	FROM	TO	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
			<u>Delta-Mendota Canal</u>												
Plain View Water District	4.22	24.96	805	16	3	3	3	852	1696	2867	3084	3570	3644	2382	1962.
Westside Irrigation District	14.79		0	0	0	0	0	0	235	392	783	1378	706		3494
Hospital Water District	18.05	30.96	837	39	0	5	181	2069	2805	3881	4871	5537	3682	1914	25821
Banta-Carbona Irrigation District	20.42		36	0	0	0	275	81	469	1471	736	3096	2443	0	8607
Gordon H. Ball, Incorporated	22.50		5	3	0	0	3	4	7	3	5	3	1	4	38
Kern Canon Water District	31.31	35.18	100	109	0	0	113	1217	1332	1035	1595	1254	1416	576	8747
West Stanislaus Irrigation District	21.21	38.14	0	0	0	2	1	140	1757	3775	9103	11090	5564	0	31432
Del Puerto Water District	35.73	42.51	326	0	0	0	328	2335	1615	1841	2475	2830	1806	1191	14747
Salado Water District	42.10	46.85	56	0	0	4	455	1094	1826	1756	1854	2266	1389	219	10919
Patterson Water District	42.51		88	0	0	0	320	1379	941	454	1852	760	1202	127	7123
Sunflower Water District	44.22	52.02	31	0	0	0	289	1412	2496	2023	2319	2993	2114	879	14556
Orestimba Water District	46.83	51.41	130	84	0	0	305	1502	3691	2116	2714	3821	2536	679	17578
Foothill Water District	51.65	57.46	443	4	0	0	143	869	1461	1349	1405	2248	1613	990	10525
Davis Water District	53.64	56.82	0	0	0	0	8	480	326	732	922	1130	587	430	4615
Mustang Water District	56.80	62.67	321	0	0	0	46	1319	893	1545	2093	2484	1857	1239	11797
Central California Irrigation District	58.26	76.06	703	20	0	0	0	2677	4079	6143	7248	11018	9215	4963	46066
Quinto Water District	64.32	67.55	136	0	0	0	9	737	479	1157	1220	1619	1293	949	7599
Centinella Water District	66.20		0	0	0	0	0	296	217	300	305	431	212	144	1905
Romero Water District	66.70	68.03	68	0	0	0	0	252	211	789	737	837	676	678	4248
San Luis Water District Municipal and Industrial	69.21		48	54	40	11	57	44	53	55	127	93	28	48	658
San Luis Water District	69.21	90.53	2901	1605	65	1938	7129	11591	6993	6572	10331	13783	9978	4050	67936
Grasslands Water District	70.00		12247	3199	0	0	0	0	0	0	0	0	0	0	4278
Sam Hamburg Farms	90.53		2	1	1	1	1	1	2	2	3	4	3	3	24
Fanoche Water District	93.25	96.70	1709	1996	1053	1758	6291	8775	5668	6092	7865	12376	8649	2707	64939
Eagle Field Water District	93.27	94.57	221	189	0	0	298	264	323	771	757	1015	723	375	4936
Oro Loma Water District	95.50	96.62	109	0	0	0	23	0	675	1060	979	1143	1010	184	5183
West Side Golf Club, Incorporated	95.95		14	5	7	4	4	9	12	17	21	25	20	19	157
Mercy Springs Water District	97.70	99.81	73	0	0	0	0	204	781	1265	904	1512	1227	417	6383
Fanoche Water District Municipal and Industrial	100.84		1	1	1	1	1	1	1	1	1	1	1	1	12
Widren Water District	102.03		0	0	0	0	0	68	23	229	221	302	371	132	1346
Broadview Water District	102.95		87	1088	376	704	2588	2200	1008	1573	3244	3064	1215	51	17198
Firebaugh Canal Company	109.45		0	0	0	0	1515	0	660	7198	6872	8031	8162	1441	33879
Total			21497	8413	1546	4431	20386	41872	42735	58464	77146	99714	73543	31070	480817
Net Deliveries DMC to Mendota Pool	115.62		66354	19954	540	7095	52097	90152	86883	119716	151036	167649	162441	105223	1029140
Net Deliveries DMC to O'Neill Forebay	69.30		35920	3904	2163	12419	48223	95379	70049	48801	42039	22191	32334	34792	411240
			<u>Madera Canal</u>												
Madera Irrigation District	6.10	32.2	13170	772	0	0	7103	16086	9838	7510	29324	41646	38105	3620	167174
Adobe Ranch	20.6		92	62	0	0	0	0	0	0	0	0	18	23	195
Chowchilla Water District	35.9		0	0	0	0	901	13884	0	5556	17471	25712	26704	15260	105484
Total			13262	834	0	0	8004	29970	9838	13066	46795	67358	64827	18903	272857
			<u>Sillerton Lake</u>												
Fresno County Water District #18			9	5	2	3	3	5	8	9	17	22	22	14	119
County of Madera			2	1	0	2	1	1	2	3	1	4	2	2	21
Total			11	6	2	5	4	6	10	12	18	26	24	16	140

TABLE B-6 (Cont.)
 DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
 October 1970 through September 1971

WATER USER	MILE POST FROM CANAL HEAD		MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	FROM	TO	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
			<u>Exant-Kern Canal</u>												
Garfield Water District	7.53		239	137	0	0	225	281	347	470	476	535	520	333	3563
Dog Creek Water District	14.8		0	0	0	0	0	0	0	0	0	0	0	0	0
International Water District	14.9		92	0	0	0	0	36	73	125	196	258	202	190	1172
Academy Water District	17.63		0	0	0	0	0	0	0	0	0	0	0	0	0
Round Mountain Ranch	20.22		0	0	0	0	0	0	0	0	0	5	11	3	19
Consolidated Irrigation District	28.50		0	0	0	0	15810	0	0	0	0	0	0	0	15810
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	1666	0	0	0	0	0	0	0	1666
Corcoran Irrigation District	28.50		0	0	0	0	3332	0	0	0	0	0	0	0	3332
Stratford Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Tulare Lake Basin Water Storage District	28.50 & 95.64		0	0	0	0	0	0	0	0	0	0	0	0	0
Alta Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
City of Fresno	25.51		0	0	0	0	0	0	0	0	0	15000	0	0	15000
Fresno Irrigation District	25.51 & 28.50		40	0	0	0	1595	15289	7420	16	3606	28921	13916	38	70841
Murphy Slough Association	28.50		0	0	0	0	1331	0	0	0	0	0	0	0	1331
Cohn Central Consolidated R.D. #761	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Empire Westside Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings River Water Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings County Water District	28.50 71.29		0	0	0	0	9983	0	0	0	0	0	0	0	9983
Hills Valley Irrigation District	41.12		0	0	0	0	0	0	0	0	0	0	0	0	0
Orange Cove Irrigation District	35.87 53.31		2928	1018	0	0	795	2039	1775	4499	6623	6815	5318		31810
City of Orange Cove	43.44		29	8	0	0	5	19	26	26	50	62	60	44	329
Stone Corral Irrigation District	56.90 64.40		375	179	0	0	56	228	595	347	976	1607	1803	932	7098
Ivanhoe Irrigation District	65.04 68.13		1154	198	0	0	200	61	198	305	1607	2658	3172	2321	11874
Tulare Irrigation District	68.14 71.29		0	0	0	0	24419	0	0	0	18865	24342	37735	0	105361
Lakeside Irrigation Water District	69.42		0	0	0	0	6661	0	0	0	0	0	0	0	6661
Kaweah-Delta Water Conservation District	69.08 71.29		0	0	0	0	8323	0	0	0	0	0	0	0	8323
Exeter Irrigation District	72.52 79.24		734	189	0	0	36	564	1066	1287	2365	3620	4218	2570	16649
Lewis Creek Water District	81.54		55	14	0	0	0	34	83	152	175	197	254	159	1123
Lindsay-Strathmore Irrigation District	85.56		3032	1423	0	0	0	910	2033	2178	3336	4861	5214	4412	27399
Lindmore Irrigation District	86.17 91.12		3182	1022	0	0	497	3570	3586	3332	5855	9289	9345	6536	46214
Porterville Irrigation District	93.93 98.62		680	149	0	0	1226	2059	2154	2095	3578	5764	5609	2346	25660
Lower Tule Irrigation District	95.67 98.62		1117	0	0	0	16614	24115	12589	11145	17905	25214	26133	18224	153056
Tea Pot Dome	99.35		532	246	0	0	0	145	253	284	516	840	915	781	4512
Saucelito Irrigation District	98.62 107.37		644	635	0	0	1135	4334	2219	1399	3079	7012	7466	3726	31649
Floor Community Service District	101.60		0	0	0	0	0	0	0	0	0	0	0	0	0
Terra Bella Irrigation District	102.65		1904	831	0	0	0	191	1384	1265	2003	3862	4096	3038	18574
Paxley Irrigation District	102.69		0	0	0	0	2184	0	0	0	0	0	0	0	2184
Delano-Edlmarl Irrigation District	109.48 118.45		4842	2489	0	0	3740	16516	12615	8438	18306	29535	26389	11746	134434
Alpaugh Irrigation District	112.96		0	0	0	0	336	0	0	0	0	0	0	0	336
Southern San Joaquin Municipal Utility District	117.44 127.97		3132	1891	0	0	1666	16702	8752	6435	13389	25282	23295	11429	111973
Rag Gulch Water District	117.96		0	0	0	0	0	0	0	0	0	0	0	0	0
Kern County Water Agency	130.03		0	0	0	0	0	0	0	0	0	0	0	0	0
Shafter-Wasco Irrigation District	134.42 137.17		2445	2029	166	0	1374	7478	3798	3109	7371	12105	11184	5264	56323
Rosedale Rio Bravo Water Storage District	151.0		0	0	0	0	8355	0	0	0	0	0	0	0	8355
Bue Vista Water Storage District	151.80		0	0	0	0	8001	0	0	0	0	0	0	0	8001
Arvin-Edison Water Storage District	151.80		**92	6418	1904	0	4847	11088	13200	10546	15037	23197	21850	13184	129063
Total			32948	20876	2070	0	123617	104415	74430	54729	123190	230607	210202	92594	41069678

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

- a Includes 990 acre-feet delivered to Westlands Water District under separate agreement.
- b Net delivery of (minus) acre-feet results from water being taken from O'Neill Forebay to Delta-Mendota Canal for delivery downstream.
- c Includes water transported from Wutchunna.
- d Does not include wasteway spills of 1,349 acre-feet in November and 490 acre-feet in December to Kern River.

TABLE B
DELIVERIES FROM CALIFORNIA AQUEDUCT^a
October 1970 through September 1971

WATER USER	MONTHLY DELIVERIES IN ACRE FEET												TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
	<u>North San Joaquin Division</u>												
South Bay Aqueduct	4388	3513	5071	5228	6338	7805	14919	12679	11883	13441	14806	7353	107424
Oak Flat Water District	76	7	0	0	121	445	1386	722	1024	1759	1252	371	7163
Mustang Water District	0	0	0	0	0	37	100	263	2	407	334	46	1438
Total	4464	3520	5071	5228	6459	8287	16405	13664	13178	15607	16372	7770	118025
	<u>O'Neill Forebay</u>												
San Luis Water District Total	49	37	5	7	77	643	861	695	788	1261	866	260	5549
	<u>San Luis Division</u>												
San Luis Water District	2	2	1	2	2	704	717	355	1015	2086	812	58	5756
Panoche Water District	984	836	1370	2369	3529	3721	2616	646	2618	5195	3774	662	28320
Westlands Water District	27073	20628	14222	27299	49402	62326	40642	50223	80665	96265	79095	28312	576152
City of Huron	42	30	26	31	23	40	45	46	59	73	68	50	533
City of Coalinga	48	63	79	93	70	87	93	100	89	94	87	88	991
Total	28149	21559	15698	29794	53026	66878	44113	51370	84446	103713	83836	29170	611752
	<u>South San Joaquin Division</u>												
Tulare Lake Basin Water Storage District	0	0	0	278	1571	2393	4353	297	1149	8816	21274	25164	65295
Empire West Side Irrigation District	458	725	0	0	0	0	627	1227	384	1464	808	0	5693
Kings County	0	0	0	0	165	16	0	0	188	188	664	664	1885
Hacienda Water District	2388	273	0	0	0	604	436	307	852	1136	949	1061	8006
Dudley Ridge Water District	1937	1319	536	669	1375	1954	3925	4263	4816	7160	7898	5094	40946
Kern County Water Agency	4740	4953	2572	3069	10529	28672	20328	14680	36327	58526	47607	19839	251842
Buena Vista Farms	0	0	0	0	58	919	1607	416	0	0	2847	789	6636
Buena Vista Water Storage District	0	0	0	0	0	0	0	0	0	1154	7080	7	8241
Total	9523	7270	3108	4016	13698	34558	31276	21190	43716	78444	89127	52618	388544
	<u>Coastal Branch</u>												
Devils Den Water District	611	754	672	256	895	1378	1073	872	889	932	784	777	9893
Kern County Water Agency	2926	0	484	1909	4816	8744	8593	5889	9950	19725	22714	12222	97972
Total	3537	754	1156	2165	5711	10122	9666	6761	10839	20657	23498	12999	107865
Delta Pumping Plant to California Aqueduct	26008	88178	113385	111758	42318	50790	60219	44791	68250	101590	123348	50719	881354

Data furnished by the Division of Operations and Maintenance.

a Entitlement, Surplus and Repayment Preconsolidation water have been combined in this table and do not include operational losses or change in storage.

TABLE B-8
IMPORTS AND EXPORTS
October 1970 through September 1971

WATER USER	IN ACRE-FEET											TOTAL	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG.		SEPT.
	<u>Imports from Delta</u>												
California Aqueduct (a)	21620	84660	108300	106500	35980	42980	49300	32110	56370	88150	108500	43370	773800
Delta-Mendota Canal	125930	27970	470	1450	128390	233940	198430	221940	264160	280580	268830	165400	1917490
Total Imports from Delta	147600	112600	108800	108000	164400	276900	243700	254000	320500	368700	377300	208800	2691000
	<u>Exports from Tuolumne River</u>												
City and County of San Francisco (b)	21579	15955	15653	11058	10457	9485	18773	22237	21858	22877	22814	21999	214745

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 pumped at Delta Pumping Plant less deliveries to South Bay Aqueduct.
(b) Includes water delivered to Lawrence Radiation Laboratory.

TABLE B-9

WATER YEAR	STATION NO.	STATION NAME
1971	C03110	TULARE LAKE

DAILY MEAN GAGE HEIGHT
(IN FEET)

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

DATA NOT AVAILABLE AT TIME OF PUBLICATION

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

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

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07885	SAN JOAQUIN RIVER BELOW PRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.89	1.67	1.74	1.88	2.05	1.86	1.76	1.97	2.04	2.41	2.60	2.29	1
2	1.90	1.68	1.74	1.91	2.08	1.85	1.78	1.98	2.05	2.41	2.57	2.35	2
3	1.90	1.68	1.75	1.91	2.05	1.84	1.74	2.03	2.05	2.41	2.55	2.31	3
4	1.91	1.68	1.75	1.89	2.03	1.84	1.76	1.97	2.06	2.41	2.54	2.26	4
5	1.92	1.68	1.75	1.88	2.02	1.84	1.75	1.93	2.06	2.41	2.54	2.26	5
6	1.92	1.69	1.75	1.89	2.01	1.84	1.76	1.80	2.07	2.41	2.53	2.26	6
7	1.93	1.70	1.75	1.89	2.01	1.83	1.76	1.82	2.05	2.41	2.53	2.26	7
8	1.93	1.69	1.77	1.89	2.00	1.84	1.77	1.93	2.04	2.42	2.52	2.25	8
9	1.93	1.69	1.78	1.89	2.00	1.84	1.76	1.97	2.03	2.43	2.51	2.26	9
10	1.93	1.69	1.77	1.90	1.99	1.85	1.84	1.94	2.03	2.42	2.50	2.26	10
11	1.93	1.70	1.77	1.89	1.96	1.85	1.94	1.93	2.05	2.42	2.52	2.26	11
12	1.93	1.71	1.77	1.90	1.93	1.86	1.94	1.96	2.04	2.41	2.52	2.26	12
13	1.93	1.76	1.77	1.94	1.89	1.95	1.94	1.94	2.04	2.41	2.52	2.30	13
14	1.93	1.89	1.77	1.96	1.89	1.89	1.94	1.94	2.10	2.40	2.52	2.35	14
15	1.93	1.89	1.77	1.90	1.88	1.87	1.95	1.93	2.28	2.39	2.51	2.37	15
16	1.93	1.90	1.80	1.89	1.87	1.87	1.95	1.94	2.40	2.43	2.51	2.43	16
17	1.93	1.92	1.82	1.89	1.88	1.86	1.97	1.95	2.47	2.50	2.49	2.49	17
18	1.92	1.98	1.81	1.89	1.87	1.87	1.98	1.96	2.69	2.50	2.47	2.49	18
19	1.92	1.99	1.80	1.89	1.86	1.87	1.93	1.97	2.77	2.51	2.42	2.49	19
20	1.92	2.02	1.80	1.89	1.86	1.87	1.79	1.97	2.84	2.54	2.40	2.49	20
21	1.93	2.06	1.91	1.89	1.85	1.86	1.79	1.97	2.89	2.58	2.34	2.49	21
22	1.89	2.07	1.94	1.89	1.84	1.84	1.79	1.98	2.89	2.58	2.28	2.47	22
23	1.84	2.07	1.88	1.89	1.85	1.86	1.79	1.98	2.82	2.60	2.27	2.45	23
24	1.84	2.08	1.87	1.89	1.85	1.86	1.80	1.98	2.81	2.64	2.26	2.45	24
25	1.84	2.06	1.86	1.89	1.85	1.87	1.80	1.98	2.81	2.65	2.26	2.45	25
26	1.83	1.98	1.86	1.89	1.84	1.77E	1.83	1.99	2.81	2.67	2.26	2.45	26
27	1.84	1.90	1.87	1.90	1.84	1.94	1.88	2.02	2.72	2.67	2.26	2.42	27
28	1.80	1.86	1.93	1.93	1.86	1.92	1.91	2.03	2.63	2.65	2.26	2.39	28
29	1.67	1.77	1.91	1.97	1.89	1.89	1.96	2.03	2.49	2.61	2.25	2.36	29
30	1.67	1.74	1.88	1.99	1.69E	1.69E	2.04	2.03	2.41	2.61	2.26	2.33	30
31	1.67		1.88	2.03		1.73		2.03		2.60	2.26		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
6-22-71	1630	3.07									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
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 Priant 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-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	62.92	62.71	63.71	64.03	63.09	62.24	62.22	62.04	62.60	61.72	61.59	61.76	1
2	62.84	62.66	63.57	63.99	63.07	62.24	62.13	61.96	62.53	61.69	61.57	61.91	2
3	62.74	62.65	63.50	63.94	63.06	62.21	62.08	62.04	62.34	61.69	61.59	61.99	3
4	62.56	62.91	63.58	63.70	63.04	62.20	62.13	61.97	62.31	61.75	61.65	62.04	4
5	62.44	63.08	63.43	63.47	63.01	62.18	62.09	62.17	62.28	61.73	61.69	62.04	5
6	62.31	63.24	63.26	63.34	63.00	62.20	62.07	62.20	61.98	61.70	61.66	62.03	6
7	62.24	63.24	63.17	63.33	62.99	62.23	62.10	62.26	61.85	61.73	61.66	62.01	7
8	62.39	63.13	63.10	63.27	62.99	62.18	62.13	62.47	61.78	61.70	61.64	61.98	8
9	62.47	62.95	63.01	63.18	62.98	62.22	62.06	63.17	61.80	61.67	61.68	61.97	9
10	62.56	62.80	63.01	63.13	62.97	62.26	61.98	62.84	61.83	61.63	61.71	61.94	10
11	62.55	62.65	62.99	63.09	62.97	62.27	61.95	62.40	61.90	61.63	61.77	61.99	11
12	62.43	62.70	62.92	63.12	62.97	62.32	61.93	62.39	61.96	61.66	61.76	61.93	12
13	62.35	62.79	62.88	63.22	62.95	62.41	61.89	62.38	61.82	61.67	61.74	61.91	13
14	62.28	62.63	62.90	63.32	62.91	62.47	61.99	62.24	61.73	61.65	61.72	61.98	14
15	62.23	62.56	62.86	63.51	62.87	62.60	62.37	62.22	61.69	61.69	61.72	62.08	15
16	62.10	62.51	62.82	63.61	62.86	62.71	63.35	62.12	61.67	61.65	61.70	62.10	16
17	62.15	62.49	62.83	63.60	62.85	62.76	63.21	61.97	61.63	61.59	61.74	61.91	17
18	62.16	62.37	62.88	64.01	62.89	62.66	63.31	61.95	61.62	61.58	61.76	61.87	18
19	62.17	62.33	63.76	64.11	62.88	62.46	63.23	61.98	61.66	61.56	61.69	61.81	19
20	62.65	62.36	64.25	64.10	62.67	62.37	62.47	62.00	61.74	61.56	61.65	61.81	20
21	62.81	62.33	64.46	64.00	62.41	62.33	62.20	61.95	61.78	61.60	61.61	61.88	21
22	62.83	62.29	65.25	63.87	62.38	62.27	62.11	61.97	61.82	61.66	61.68	61.84	22
23	62.89	62.26	65.94	63.75	62.43	62.23	62.11	61.90	61.82	61.64	61.76	61.81	23
24	62.85	62.26	65.75	63.62	62.38	62.21	62.06	61.94	61.70	61.64	61.82	61.86	24
25	62.82	62.26	65.42	63.53	62.42	62.22	62.00	61.95	61.64	61.66	61.82	61.97	25
26	62.77	62.53	64.92	63.44	62.41	62.39	61.89	61.90	61.65	61.66	61.88	61.91	26
27	62.75	62.71	64.50	63.37	62.36	62.54	61.90	62.09	61.64	61.67	61.88	61.91	27
28	62.60	62.65	64.35	63.31	62.20	62.63	61.88	62.11	61.65	61.66	61.83	62.04	28
29	62.55	62.95	64.24	63.25	62.56	61.94	62.57	61.69	61.65	61.65	61.82	62.07	29
30	62.69	63.46	64.15	63.16	62.38	62.38	61.94	62.39	61.71	61.68	61.83	61.97	30
31	62.71		64.06	63.11		62.30		62.62		61.65	61.81		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	1245	65.99									
1-19-71	0100	64.43									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flow regulated by upstream reservoirs and diversions.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	807375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55.73	55.16	56.96	56.90	56.21	55.88	56.22	55.58	56.66	55.49	54.93	55.20	1
2	55.65	55.09	57.14	56.82	56.18	56.00	56.01	55.58	56.57	55.32	54.94	55.33	2
3	55.61	55.01	57.33	56.79	56.19	55.97	55.88	55.75	56.40	55.18	54.98	55.37	3
4	55.58	55.20	57.31	56.60	56.14	55.85	55.83	55.90	56.26	55.22	54.89	55.23	4
5	55.52	55.62	57.22	56.41	56.04	55.83	55.85	55.98	56.14	55.31	54.87	55.30	5
6	55.37	55.85	57.03	56.21	55.97	55.79	55.85	56.09	55.91	55.35	54.90	55.34	6
7	55.23	55.96	56.92	56.18	55.95	55.74	55.85	56.12	55.92	55.35	54.80	55.38	7
8	54.97	55.95	56.81	56.14	55.94	55.73	55.78	56.25	55.83	55.21	54.82	55.38	8
9	54.91	55.92	56.78	56.06	55.93	55.78	55.81	56.64	55.66	55.16	55.01	55.22	9
10	55.02	55.85	56.69	55.93	55.89	55.82	55.84	56.77	55.60	55.16	55.07	55.21	10
11	55.08	55.70	56.60	55.78	55.86	55.81	55.94	56.48	55.76	55.11	55.14	55.26	11
12	55.05	55.73	56.50	55.73	55.85	55.85	56.06	56.27	55.70	55.11	55.05	55.24	12
13	54.74	55.87	56.49	55.78	55.84	55.93	56.14	56.25	55.74	55.19	55.08	55.32	13
14	54.76	55.83	56.50	55.87	55.80	56.20	56.17	56.12	55.73	55.22	55.08	55.28	14
15	54.79	55.75	56.51	56.03	55.78	56.34	56.16	55.94	55.87	55.33	55.00	55.28	15
16	54.81	55.64	56.50	56.17	55.76	56.36	56.69	55.77	55.80	55.32	55.09	55.26	16
17	54.67	55.54	56.49	56.12	55.69	56.48	56.97	55.66	55.83	55.18	55.03	55.28	17
18	54.60	55.47	56.48	56.50	55.72	56.41	56.86	55.58	55.74	55.25	55.06	55.16	18
19	54.75	55.44	56.76	56.99	55.78	56.23	56.85	55.68	55.66	55.25	55.03	54.93	19
20	54.77	55.47	57.31	57.12	55.84	56.18	56.53	55.70	55.54	55.27	55.01	54.88	20
21	55.18	55.46	57.62	57.12	55.75	56.21	56.12	55.67	55.48	55.25	55.08	54.83	21
22	55.31	55.41	58.00	57.05	55.87	56.18	56.00	55.82	55.53	55.07	55.10	54.80	22
23	55.39	55.34	58.72	57.06	55.92	56.07	55.93	55.84	55.49	54.91	55.19	54.80	23
24	55.30	55.32	58.69	57.04	55.84	56.00	55.89	55.83	55.27	54.93	55.21	54.78	24
25	55.23	55.33	58.54	56.96	55.81	56.04	55.78	55.78	55.26	54.95	55.14	54.72	25
26	55.19	55.37	58.08	56.81	55.78	56.25	55.68	55.70	55.32	55.03	55.10	54.78	26
27	55.31	55.55	57.64	56.63	55.79	56.58	55.63	55.70	55.40	54.99	55.08	54.89	27
28	55.30	55.65	57.35	56.50	55.80	56.69	55.59	55.84	55.56	55.00	55.10	54.93	28
29	55.04	55.94	57.18	56.39		56.66	55.60	56.31	55.56	54.80	55.17	54.92	29
30	55.11	56.49	57.10	56.34		56.60	55.57	56.51	55.62	54.84	55.28	54.86	30
31	55.22		56.99	56.35		56.36		56.59		54.88	55.35		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-3-70	1600	57.37									
12-23-70	0900	58.83									
1-22-71	0030	57.07									

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 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-	DATE	1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. 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 During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	805170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.95	6.15	6.46	8.17	7.14	6.64	6.21	6.02	6.14	5.94	5.96	6.03	1
2	5.95	6.14	6.48	8.19	7.19	6.63	6.33	6.07	6.18	6.00	5.98	6.00	2
3	5.95	6.23	6.47	8.20	7.18	6.64	6.37	6.20	6.06	6.03	5.96	6.08	3
4	5.98	6.40	6.47	8.27	7.19	6.64	6.32	6.39	5.98	6.00	6.01	6.10	4
5	6.00	6.40	6.46	8.29	7.19	6.58	6.30	6.18	6.10	5.97	6.02	6.12	5
6	5.92	6.40	6.46	8.27	7.23	6.50	6.42	6.23	6.07	6.05	5.97	6.18	6
7	6.80	6.42	6.48	8.27	7.24	6.56	6.34	6.32	6.13	6.11	5.97	6.21	7
8	6.96	6.38	6.47	8.13	7.85	6.61	6.31	6.31	6.11	6.12	6.01	6.26	8
9	6.99	6.38	6.48	7.30	8.63	6.48	6.32	6.15	6.07	6.08	6.00	6.17	9
10	6.99	6.41	7.04	7.23	8.66	6.40	6.21	6.01	6.08	6.08	6.04	6.13	10
11	6.54	6.43	8.19	7.21	8.60	6.47	6.34	6.03	6.13	6.05	6.11	6.11	11
12	6.40	6.42	8.17	7.21	8.42	6.48	6.28	6.13	6.13	6.04	6.05	6.09	12
13	6.19	6.42	8.17	7.19	7.30	6.58	6.36	6.04	6.14	6.04	6.01	6.07	13
14	6.16	6.45	8.20	7.17	7.23	6.55	6.40	6.06	6.22	6.11	6.03	6.03	14
15	6.14	6.44	8.24	7.12	7.20	6.57	6.13	6.12	6.23	6.08	6.02	5.98	15
16	6.13	6.43	8.24	7.11	7.19	6.58	6.22	6.04	6.30	6.11	6.05	6.07	16
17	6.11	6.44	8.23	7.10	7.14	6.51	6.32	6.04	6.02	6.28	6.07	6.07	17
18	6.12	6.43	8.25	7.12	7.16	6.39	6.39	5.96	5.98	6.16	6.00	6.08	18
19	6.11	6.41	8.32	7.10	7.16	6.40	6.29	6.11	6.18	6.12	5.89	6.10	19
20	5.96	6.48	8.20	7.11	7.15	6.42	6.20	6.08	6.18	6.09	5.93	6.08	20
21	6.01	6.44	8.43	7.13	7.14	6.46	6.10	6.13	6.15	6.12	6.05	6.11	21
22	6.14	6.43	8.26	7.15	7.15	6.47	6.03	6.01	6.17	5.99	6.02	6.15	22
23	6.17	6.42	8.22	7.15	6.84	6.46	6.00	6.06	6.09	6.04	5.99	6.18	23
24	6.19	6.41	8.13	7.13	6.53	6.35	5.94	6.05	6.05	6.02	6.04	6.18	24
25	6.17	6.46	8.23	7.12	6.65	6.37	6.00	6.11	6.07	6.02	5.97	6.20	25
26	6.17	6.43	8.26	7.13	6.65	6.47	6.05	6.16	6.11	6.08	5.98	6.28	26
27	6.17	6.41	8.26	7.11	6.66	6.50	6.04	6.20	6.07	6.08	6.02	6.22	27
28	6.16	6.43	8.23	7.12	6.69	6.37	6.02	6.26	6.04	6.05	6.07	6.24	28
29	6.16	6.49	8.21	7.13	6.36	6.36	5.93	6.17	6.07	5.95	6.08	6.24	29
30	6.18	6.50	8.21	7.13	6.30	6.30	6.15	6.23	6.03	5.92	6.10	6.29	30
31	6.15	8.20	7.13	7.13	6.26	6.26	6.14	6.14	5.96	6.10	6.10	6.29	31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-21-70	0630	8.74									
2-10-71	0130	8.70									

LOCATION			MAXIMUM DISCHARGE				PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.A.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-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.76	10.89	11.29	12.82	11.65	11.20	10.84E	10.81	10.87	10.60	10.48	10.66	1
2	10.79	10.87	11.26	12.83	11.67	11.16	10.87	10.74	10.79	10.58	10.52	10.74	2
3	10.79	10.87	11.45	12.80	11.67	11.15	10.94	10.76	10.74	10.57	10.51	10.69	3
4	10.79	10.95	11.33	12.85	11.67	11.17	10.97	10.83	10.74	10.63	10.49	10.76	4
5	10.75	11.09	11.23	12.93	11.66	11.16	10.99	10.90	10.67	10.67	10.50	10.81	5
6	10.73	11.11	11.20	12.81	11.66	10.96	10.88	10.88	10.68	10.61	10.52	10.81	6
7	10.75	11.12	11.19	12.89	11.68	11.04	10.98	10.86	10.70	10.58	10.52	10.82	7
8	11.11	11.10	11.17	12.90	11.69	11.06	10.98	10.93	10.61	10.60	10.49	10.85	8
9	11.50	11.06	11.17	12.47	12.68	11.06	10.85	10.99	10.64E	10.68	10.50	10.92	9
10	11.51	11.05	11.16	11.87	13.23	11.04	10.92	10.93	10.64E	10.66	10.54	10.97	10
11	11.51	11.06	11.75	11.78	13.23	10.95	10.90	10.84	10.65E	10.67	10.55	10.93	11
12	11.30	11.08	12.85	11.80	13.20	11.01	10.94	10.76	10.65E	10.67	10.56	10.94	12
13	11.07	11.07	12.68	11.89	12.63	11.11	10.94	10.79	10.66E	10.59	10.55	10.96	13
14	10.96	11.06	12.72	11.93	11.80	11.19	11.01	10.73	10.66E	10.50	10.57	10.92	14
15	10.88	11.07	12.77	11.81	11.73	11.16	11.05	10.68	10.66E	10.47	10.61	10.85	15
16	10.85	11.07	12.84	11.75	11.68	11.16	10.92	10.70	10.67	10.51	10.70	10.80	16
17	10.86	11.06	12.95	11.71	11.65	11.16	10.93	10.71	10.75	10.54	10.62	10.75	17
18	10.84	11.06	12.96	11.69	11.63	11.10	11.01	10.66	10.67	10.67	10.57	10.76	18
19	10.78	11.06	13.17	11.68	11.68	11.03	11.07	10.62	10.57	10.69	10.63	10.79	19
20	10.80	11.03	13.28	11.66	11.65	11.02	11.02	10.68	10.58	10.57	10.59	10.85	20
21	10.79	11.09	13.59	11.65	11.62	11.01	10.97	10.73	10.68	10.51	10.63	10.96	21
22	10.75	11.07	13.59	11.66	11.62	11.03	10.89	10.76	10.63	10.53	10.62	10.92	22
23	10.82	11.06	13.06	11.66	11.62	11.01E	10.86	10.76	10.61	10.53	10.65	10.96	23
24	10.89	11.05	12.97	11.67	11.35	10.99E	10.81	10.78	10.61	10.46	10.67	11.01	24
25	10.89	11.09	12.93	11.66	11.17	10.97E	10.78	10.71	10.64	10.52	10.65	10.99	25
26	10.88	11.14	12.93	11.65	11.20	10.95E	10.79	10.67	10.60	10.59	10.64	10.97	26
27	10.87	11.10	12.94	11.65	11.19	10.93E	10.76	10.72	10.64	10.58	10.57	11.01	27
28	10.87	11.10	12.94	11.63	11.20	10.91E	10.75	10.83	10.67	10.61	10.52	11.01	28
29	10.86	11.19	12.89	11.64		10.89E	10.76	10.88	10.61	10.70	10.54	11.04	29
30	10.86	11.25	12.87	11.65		10.87E	10.73	10.86	10.58	10.64	10.60	11.05	30
31	10.91		12.84	11.66		10.85E		10.91		10.56	10.58		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-12-70	1115	13.88						
12-21-70	2000	14.82						
2-10-71	1715	13.27						

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	TD			
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24 86.23	USCGS USCGS	

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

a Reflects present datum.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	48.42	48.26	50.52	51.58	50.17	49.18	48.90	48.22	48.98	47.77	47.31	47.45	1
2	48.42	48.26	50.75	51.46	50.09	49.22	48.76	48.28	49.00	47.62	47.26	47.47	2
3	48.43	48.10	50.96	51.39	50.02	49.26	48.62	48.40	48.80	47.55	47.28	47.65	3
4	48.45	48.22	50.94	51.27	49.96	49.33	48.51	48.41	48.59	47.47	47.26	47.53	4
5	48.45	48.60	50.75	51.18	49.88	49.34	48.61	48.49	48.44	47.53	47.18	47.53	5
6	48.30	48.76	50.50	51.12	49.79	49.12	48.71	48.57	48.28	47.61	47.15	47.76	6
7	48.20	48.90	50.37	50.99	49.74	48.89	48.73	48.68	48.30	47.62	47.10	47.70	7
8	48.14	48.97	50.22	51.00	49.74	48.95	48.83	48.93	48.22	47.50	47.11	47.66	8
9	48.27	49.01	50.17	50.96	49.72	48.96	48.82	49.33	48.02	47.42	47.17	47.56	9
10	48.50	48.90	50.06	50.54	50.31	48.99	48.79	49.47	47.90	47.39	47.15	47.58	10
11	48.56	48.79	49.90	50.06	50.78	49.11	48.83	49.20	48.01	47.56	47.17	47.72	11
12	48.61	48.79	50.04	49.89	50.88	49.06	48.90	48.81	47.97	47.58	47.12	47.70	12
13	48.42	48.91	50.69	49.87	50.90	49.25	48.87	48.78	47.96	47.51	47.22	47.79	13
14	48.22	48.88	50.78	49.95	50.48	49.38	49.01	48.70	47.99	47.51	47.25	47.65	14
15	48.14	48.81	50.99	50.08	49.91	49.60	49.09	48.57	47.95	47.43	47.08	47.58	15
16	48.16	49.02	51.13	50.10	49.73	49.64	49.37	48.38	47.97	47.38	47.26	47.56	16
17	48.03	48.85	51.23	50.05	49.63	49.69	49.67	48.40	48.01	47.28	47.26	47.59	17
18	47.90	48.80	51.28	50.36	49.55	49.69	49.74	48.19	47.91	47.35	47.28	47.67	18
19	47.85	48.76	51.36	50.84	49.54	49.47	49.55	48.12	47.81	47.54	47.19	47.58	19
20	47.83	48.76	51.81	50.99	49.56	49.39	49.30	48.13	47.79	47.44	47.17	47.51	20
21	47.97	48.74	52.15	51.02	49.47	49.34	49.00	48.10	47.76	47.50	47.25	47.41	21
22	48.12	48.77	52.62	50.94	49.48	49.26	48.66	48.16	47.72	47.31	47.29	47.51	22
23	48.25	48.75	53.03	50.90	49.53	49.16	48.57	48.22	47.68	47.16	47.45	47.58	23
24	48.28	48.71	52.97	50.90	49.54	49.09	48.55	48.29	47.62	47.27	47.49	47.56	24
25	48.26	48.76	52.86	50.85	49.37	49.19	48.42	48.23	47.58	47.32	47.47	47.55	25
26	48.30	48.85	52.53	50.71	49.19	49.35	48.45	48.17	47.66	47.38	47.44	47.52	26
27	48.33	48.98	52.18	50.56	49.15	49.60	48.39	48.18	47.66	47.36	47.42	47.59	27
28	48.37	49.15	51.94	50.45	49.15	49.77	48.27	48.36	47.82	47.30	47.31	47.68	28
29	48.20	49.55	51.81	50.34		49.65	48.22	48.60	47.75	47.21	47.28	47.70	29
30	48.13	50.19	51.76	50.26		49.37	48.18	48.79	47.79	47.23	47.42	47.76	30
31	48.18		51.69	50.29		49.13		48.88		47.22	47.57		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	1600	53.05									
1-21-71	0430	51.03									
2-13-71	1330	50.91									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	34700a	65.90	2-26-69	APR 12-DATE		1912		47.24	USCGS
								1959		47.31	USCGS
								1959		0.00	USCGS

Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,990 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". Flows regulated by upstream reservoirs and diversions.

a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (33,300 cfs) includes flow in Merced River Slough.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	39.37	39.02	41.01	42.01	40.77	39.87	39.99	39.32	40.08	38.89	38.48	38.80	1
2	39.40	39.04	41.21	41.97	40.70	39.86	39.92	39.42	40.08	38.78	38.52	38.88	2
3	39.41	38.95	41.40	41.84	40.64	40.06	39.75	39.53	39.95	38.69	38.50	38.88	3
4	39.43	38.98	41.44	41.76	40.60	40.17	39.61	39.63	39.72	38.74	38.48	38.76	4
5	39.55	39.28	41.31	41.67	40.52	40.08	39.71	39.70	39.55	38.72	38.39	38.69	5
6	39.40	39.45	41.08	41.61	40.42	39.85	39.75	39.71	39.47	38.81	38.38	38.86	6
7	39.22	39.56	40.96	41.50	40.38	39.70	39.81	39.76	39.46	38.82	38.37	38.87	7
8	39.20	39.62	40.84	41.47	40.36	39.70	39.86	40.03	39.38	38.74	38.34	38.93	8
9	39.18	39.68	40.80	41.47	40.33	39.73	39.87	40.37	39.22	38.65	38.43	38.79	9
10	39.33	39.64	40.72	41.25	40.64	39.76	39.84	40.65	39.08	38.61	38.44	38.62	10
11	39.38	39.59	40.61	40.82	41.13	39.90	39.91	40.49	39.13	38.78	38.46	38.74	11
12	39.43	39.55	40.59	40.62	41.25	39.83	40.04	40.07	39.11	38.83	38.44	38.85	12
13	39.33	39.60	41.06	40.57	41.28	40.02	39.87	39.93	39.05	38.75	38.41	38.99	13
14	39.18	39.61	41.26	40.60	41.10	40.17	40.05	39.78	39.16	38.72	38.52	38.90	14
15	39.09	39.52	41.38	40.83	40.59	40.38	40.27	39.70	39.15	38.54	38.42	38.75	15
16	39.02	39.64	41.53	40.78	40.38	40.46	40.58	39.57	39.10	38.53	38.50	38.70	16
17	38.93	39.60	41.62	40.72	40.30	40.44	40.88	39.47	39.11	38.44	38.50	38.72	17
18	38.80	39.53	41.68	40.82	40.20	40.34	40.97	39.39	39.02	38.54	38.47	38.78	18
19	38.74	39.47	41.75	41.23	40.17	40.29	40.85	39.30	38.97	38.69	38.46	38.80	19
20	38.72	39.47	42.03	41.42	40.18	40.21	40.67	39.24	38.97	38.67	38.40	38.80	20
21	38.77	39.45	42.55	41.47	40.14	40.18	40.38	39.23	38.95	38.67	38.52	38.68	21
22	38.88	39.45	42.89	41.43	40.13	40.10	39.88	39.31	38.87	38.64	38.59	38.65	22
23	38.97	39.46	43.24	41.39	40.31	39.95	39.78	39.48	38.83	38.42	38.77	38.73	23
24	39.07	39.43	43.23	41.38	40.39	39.92	39.77	39.49	38.92	38.43	38.76	38.69	24
25	39.02	39.48	43.16	41.36	40.18	40.04	39.59	39.50	38.78	38.54	38.73	38.72	25
26	39.05	39.53	42.95	41.24	39.95	40.39	39.57	39.36	38.84	38.57	38.70	38.69	26
27	39.05	39.61	42.65	41.12	39.84	40.46	39.52	39.31	38.88	38.54	38.59	38.77	27
28	39.15	39.83	42.41	41.02	39.83	40.47	39.37	39.54	39.02	38.51	38.54	38.84	28
29	39.10	40.23	42.24	40.93		40.58	39.34	39.76	39.01	38.53	38.48	38.77	29
30	38.95	40.65	42.17	40.86		40.45	39.31	39.88	39.01	38.46	38.59	38.88	30
31	38.95		42.11	40.83		40.22		39.89		38.35	38.76		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	2100	43.27									
2-13-71	1600	41.30									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 26 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65		1959	0.00	USED
									1959	0.00	USGS
									1959	3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing. Flows regulated by upstream reservoirs and diversions.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33.31E	32.77	34.85	35.95	34.65	33.64	33.75	32.90	33.60	32.58	32.17	32.44	1
2	33.37E	32.79	35.12	35.90	34.57	33.61	33.73	33.07	33.65	32.52	32.28	32.47	2
3	33.44E	32.76	35.26	35.76	34.49	33.75	33.49	33.37	33.55	32.54	32.19	32.43	3
4	33.51E	32.75	35.36	35.68	34.44	34.10	33.23	33.55	33.40	32.61	32.15	32.40	4
5	33.58E	32.99	35.28	35.58	34.35	34.00	33.25	33.61	33.06	32.58	32.05	32.41	5
6	33.48	33.17	35.06	35.54	34.26	33.78	33.19	33.64	33.05	32.56	32.07	32.58	6
7	33.23	33.29	34.90	35.45	34.19	33.63	33.30	33.62	33.08	32.56	32.10	32.58	7
8	33.19	33.32	34.80	35.37	34.15	33.64	33.33	33.86	32.97	32.53	32.14	32.58	8
9	33.13	33.37	34.71	35.37	34.12	33.59	33.38	34.29	32.75	32.34	32.06	32.44	9
10	33.20	33.39	34.64	35.23	34.25	33.63	33.37	34.51	32.69	32.26	32.06	32.38	10
11	33.23	33.34	34.53	34.83	34.76	33.65	33.59	34.24	32.77	32.40	32.06	32.48	11
12	33.29	33.28	34.44	34.58	34.93	33.62	33.67	33.83	32.78	32.53	32.06	32.72	12
13	33.28	33.29	34.76	34.50	34.99	33.90	33.42	33.71	32.71	32.40	32.04	32.82	13
14	33.17	33.37	35.06	34.50	34.92	34.12	33.69	33.52	32.86	32.40	32.05	32.76	14
15	33.14	33.28	35.18	34.69	34.44	34.31	33.94	33.35	32.74	32.25	32.18	32.64	15
16	33.11	33.31	35.35	34.71	34.18	34.43	34.40	33.19	32.63	32.19	32.06	32.54	16
17	32.95	33.35	35.44	34.65	34.10	34.37	34.71	33.11	32.70	32.28	32.05	32.54	17
18	32.80	33.24	35.51	34.67	34.02	34.08	34.88	33.03	32.66	32.34	32.04	32.56	18
19	32.72	33.20	35.64	35.03	33.95	34.05	34.70	33.04	32.61	32.41	32.04	32.64	19
20	32.67	33.18	35.84	35.28	33.91	33.87	34.47	33.03	32.66	32.37	32.04	32.74	20
21	32.63	33.17	36.32	35.34	33.92	33.83	34.18	33.09	32.59	32.33	32.13	32.64	21
22	32.71	33.15	36.76	35.33	33.89	33.73	33.73	33.09	32.42	32.36	32.39	32.57	22
23	32.75	33.16	37.14	35.29	33.95	33.57	33.64	33.30	32.40	32.22	32.53	32.65	23
24	32.88	33.16	37.18	35.27	34.10	33.59	33.48	33.29	32.57	32.08	32.41	32.74	24
25	32.82	33.21	37.12	35.25	33.97	33.71	33.29	33.14	32.53	32.19	32.33	32.78	25
26	32.83	33.27	36.98	35.15	33.71	34.20	33.21	33.03	32.58	32.19	32.32	32.78	26
27	32.83	33.29	36.69	35.02	33.59	34.34	33.21	32.90	32.71	32.13	32.29	32.83	27
28	32.88	33.53	36.41	34.90	33.61	34.33	33.12	33.19	32.83	32.14	32.28	32.82	28
29	32.91	34.22	36.21	34.81		34.43	33.07	33.35	32.83	32.23	32.29	32.77	29
30	32.76	34.48	36.10	34.74		34.38	33.08	33.49	32.69	32.11	32.33	32.79	30
31	32.74		36.04	34.70		34.09		33.49		32.06	32.36		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-24-70	0330	37.20									
1-21-71	1000	35.36									
2-13-71	2115	35.01									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38	OCT 69-DATE	APR 38-SEP 66	1938	1959	0.00	USED
				50.47a	6-13-38			1959		0.00	USCGS
			5460b	42.65	3- 9-70			1959		3.53	USED

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Station reactivated 10-1-69.

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

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	67.30	66.62	68.38	71.94	71.56	69.65	68.80	67.61	67.35	67.25	67.42	66.46	1
2	67.64	66.61	68.39	72.14	71.60	69.36	69.17	67.62	67.36	67.27	67.42	66.46	2
3	67.39	66.60	68.85	72.14	71.16	69.37	68.58	67.54	67.37	67.28	67.46	66.46	3
4	67.27	66.63	70.74	71.92	71.02	69.37	68.50	67.52	67.36	67.28	67.51	66.45	4
5	67.26	66.65	72.12	70.88	71.25	69.44	69.61	67.50	67.35	67.28	67.86	66.36	5
6	67.26	66.66	72.12	70.09	71.34	70.01	69.38	67.50	67.35	67.28	67.41	66.38	6
7	67.27	66.67	71.27	70.09	71.19	70.12	69.22	67.51	67.35	67.28	67.40	66.45	7
8	67.29	66.92	70.10	70.10	71.30	69.55	69.05	67.57	67.36	67.27	67.38	66.45	8
9	67.28	68.00	69.57	70.10	71.08	69.36	68.97	67.32	67.36	67.37	67.40	66.45	9
10	67.27	68.45	69.47	70.02	71.08	69.42	68.47	67.45	67.37	67.46	67.47	66.45	10
11	67.10	68.44	69.56	70.09	71.34	69.40	68.47	67.41	67.36	67.45	67.42	66.42	11
12	67.09	68.44	69.91	70.74	71.03	69.39	69.07	67.40	67.36	67.43	67.39	66.35	12
13	67.16	68.42	70.15	72.01	69.41	69.64	68.62	67.38	67.34	67.51	67.39	66.33	13
14	67.17	68.42	70.41	71.93	69.62	69.93	68.23	67.38	67.34	67.43	67.38	66.40	14
15	67.16	68.41	70.58	71.81	71.21	69.76	68.17	67.38	67.35	67.36	67.38	66.40	15
16	66.92	68.36	70.81	71.28	71.28	69.50	68.10	67.37	67.35	67.37	66.99	66.40	16
17	67.05	68.37	71.59	71.06	71.19	69.39	68.09	67.37	67.34	67.39	66.65	66.39	17
18	67.04	68.37	71.80	71.06	71.16	69.36	68.09	67.38	67.35	67.36	66.52	66.38	18
19	67.27	68.37	71.90	71.08	71.14	68.88	68.12	67.38	67.33	67.37	66.51	66.35	19
20	67.02	68.38	71.88	71.09	71.17	68.48	68.11	67.38	67.32	67.42	66.51	66.40	20
21	66.94	68.38	71.81	71.14	71.10	68.56	68.11	67.50	67.32	67.42	66.41	66.38	21
22	66.88	68.39	71.81	71.34	70.75	68.56	68.11	67.39	67.34	67.40	66.39	66.37	22
23	66.85	68.39	71.81	71.72	70.91	68.49	68.10	67.37	67.35	67.40	66.40	66.37	23
24	66.82	68.40	71.91	71.52	70.82	68.55	68.10	67.67	67.32	67.39	66.45	66.40	24
25	66.78	68.40	71.97	71.16	70.59	68.54	68.09	67.46	67.30	67.38	66.45	66.40	25
26	66.74	68.40	72.02	70.80	70.44	68.54	68.08	67.38	67.29	67.38	66.80	66.40	26
27	66.72	68.40	72.05	70.43	69.68	68.19	68.09	67.38	67.26	67.40	66.46	66.40	27
28	66.69	68.40	72.06	70.22	69.89	68.32	68.10	67.37	67.26	67.41	66.45	66.40	28
29	66.67	68.39	71.63	70.25		68.51	68.09	67.36	67.26	67.42	66.45	66.40	29
30	66.65	68.39	71.54	71.05		68.48	68.09	67.35	67.23	67.41	66.45	66.53	30
31	66.64		71.65	70.99		68.46		67.34		67.42	66.46		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW
a - SEE (a) BELOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-28-70	2015	72.32									
2-1-71	1900	72.42a									

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	52200	88.0 86.29	12-8-50 1-26-69	OCT 36-SEP 60 OCT 61-DATE		1937		1.76	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. To change gage height to elevation add 100 feet.

a The annual maximum gage height of 72.42 does not represent the maximum discharge, which occurred at gage height 72.32 feet on 12-29-70.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	69.79	69.75	70.52	72.78	72.23	71.58	70.54	70.06	69.69	69.59	69.61	69.62	1
2	69.79	69.75	70.54	73.07	72.79	71.24	70.84	69.89	69.68	69.58	69.62	69.58	2
3	69.92	69.75	70.53	73.07	72.43	71.17	70.89	69.86	69.67	69.59	69.58	69.61	3
4	69.91	69.78	71.41	72.98	72.18	71.16	70.62	69.83	69.68	69.62	69.59	69.63	4
5	69.82	69.77	72.82	72.63	72.29	71.15	70.69	69.79	69.68	69.62	69.59	69.63	5
6	69.78	69.78	73.06	71.67	72.32	71.34	71.31	69.78	69.70	69.60	69.87	69.62	6
7	69.79	69.78	72.86	71.62	72.31	71.59	71.15	69.78	69.69	69.59	69.67	69.60	7
8	69.75	69.77	71.94	71.60	72.30	71.48	70.99	69.85	69.66	69.57	69.63	69.61	8
9	69.76	69.75	71.35	71.60	72.25	71.15	70.92	69.84	69.63	69.57	69.61	69.60	9
10	69.77	70.16	71.35	71.57	72.20	71.16	70.80	69.91	69.65	69.59	69.62	69.61	10
11	69.78	70.47	71.27	71.58	72.31	71.17	70.52	69.79	69.68	69.64	69.63	69.63	11
12	69.77	70.49	71.42	71.58	72.35	71.28	70.56	69.74	69.68	69.66	69.65	69.65	12
13	69.75	70.49	71.57	72.87	71.52	71.48	70.93	69.75	69.66	69.64	69.61	69.64	13
14	69.78	70.48	71.75	72.88	71.16	71.71	70.47	69.74	69.64	69.63	69.61	69.57	14
15	69.96	70.48	71.92	72.92	72.00	71.72	70.30	69.70	69.60	69.64	69.62	69.58	15
16	69.79	70.46	71.89	72.53	72.32	71.33	70.21	69.69	69.60	69.62	69.61	69.59	16
17	69.77	70.44	72.58	72.19	72.28	71.24	70.25	69.71	69.61	69.60	69.59	69.60	17
18	69.75	70.44	72.72	72.20	72.28	71.16	70.60	69.72	69.63	69.60	69.64	69.61	18
19	69.75	70.44	72.90	72.20	72.22	71.12	70.62	69.71	69.64	69.60	69.66	69.62	19
20	69.78	70.44	72.88	72.20	72.26	70.62	70.63	69.71	69.65	69.61	69.65	69.62	20
21	69.78	70.45	72.90	72.23	72.21	70.56	70.39	69.70	69.65	69.60	69.68	69.60	21
22	69.78	70.45	72.82	72.25	72.07	70.63	70.12	69.70	69.64	69.60	69.72	69.60	22
23	69.77	70.45	72.81	72.65	72.11	70.57	70.12	69.72	69.64	69.60	69.65	69.60	23
24	69.76	70.45	72.81	72.62	72.05	70.59	70.09	69.68	69.63	69.60	69.59	69.61	24
25	69.75	70.51	72.94	72.35	72.01	70.80	70.08	69.60	69.63	69.61	69.56	69.61	25
26	69.74	70.48	72.99	72.12	71.87	70.98	70.08	69.78	69.65	69.59	69.58	69.62	26
27	69.73	70.47	73.01	71.67	71.47	70.38	70.07	69.73	69.65	69.58	69.82	69.63	27
28	69.73	70.50	72.98	71.68	71.60	70.80	70.08	69.78	69.64	69.58	69.69	69.62	28
29	69.73	70.55	72.95	71.60	70.65	70.08	70.08	69.69	69.61	69.60	69.65	69.62	29
30	69.73	70.53	72.62	72.03	70.56	70.08	70.08	69.68	69.60	69.61	69.65	69.62	30
31	69.74		72.63	72.14	70.53			69.70		69.62	69.63		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-7-70	0500	73.08	12-25-70	0230	73.10	2-2-71	0500	73.05			
12-17-70	1345	73.13	12-29-70	0900	73.23						
12-21-70	1200	73.04	1-15-71	1400	73.06						

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		1932		-1.13	USCGS
						JAN 37-MAR 37					
						JUL 37-FEB 38					
						JUL 38-DEC 38					
						MAR 39-DATE					

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-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.30	67.55	70.12	68.01	67.72	67.61	68.74	68.46	68.39	68.15	68.00	68.10	1
2	68.30	67.55	69.97	68.00	67.71	67.60	68.12	68.37	68.33	68.07	68.02	68.20	2
3	68.22	67.55	71.52	67.97	67.70	67.61	68.09	68.51	68.38	68.08	67.95	68.20	3
4	68.26	67.64	69.52	67.97	67.69	67.60	68.15	68.41	68.36	68.15	67.93	68.14	4
5	68.35	67.81	68.88	68.02	67.68	67.60	68.32	68.61	68.43	68.15	68.00	68.19	5
6	68.23	67.95	69.15	67.93	67.67	67.60	68.49	68.55	68.50	68.20	68.00	68.24	6
7	68.40	68.18	68.55	67.88	67.67	67.61	68.68	68.44	68.41	68.14	68.02	68.21	7
8	68.40	68.10	68.28	67.86	67.67	67.80	68.56	68.69	68.51	68.10	68.04	68.24	8
9	68.53	67.88	68.14	67.84	67.66	68.00	68.56	68.85	68.42	68.08	68.03	68.18	9
10	68.51	67.74	68.06	67.81	67.66	67.83	68.69	68.47	68.36	68.06	67.98	68.18	10
11	68.39	67.66	68.07	67.80	67.65	68.00	68.64	68.30	68.31	68.04	68.07	68.17	11
12	68.34	67.61	68.07	67.83	67.65	68.07	68.50	68.12	68.22	68.04	68.01	68.15	12
13	68.33	67.57	67.99	67.85	67.65	68.58	68.50	68.18	68.18	67.95	67.97	68.21	13
14	68.38	67.66	67.92	68.89	67.65	68.47	68.61	68.21	68.26	67.92	67.95	68.22	14
15	68.43	67.67	67.87	71.84	67.64	68.12	68.71	68.17	68.33	67.97	67.95	68.12	15
16	68.51	67.64	67.84	69.37	67.63	68.02	68.62	68.25	68.36	68.00	68.11	68.18	16
17	68.48	67.62	67.82	68.67	67.64	67.91	68.63	68.42	68.40	68.04	68.06	68.22	17
18	68.41	67.61	68.34	68.38	67.63	67.87	69.13	68.32	68.30	68.04	68.09	68.19	18
19	68.26	67.58	68.60	68.23	67.63	67.79	68.79	68.19	68.30	68.05	68.13	68.23	19
20	68.06	67.65	70.66	68.12	67.62	67.88	68.65	68.18	68.16	68.03	68.05	68.23	20
21	67.91	67.67	69.48	68.04	67.63	68.02	68.62	68.11	68.15	68.01	68.07	68.12	21
22	67.81	67.61	71.82	67.97	67.63	67.88	68.42	68.15	68.21	68.04	68.06	68.23	22
23	67.73	67.59	70.28	67.92	67.62	68.10	68.32	68.13	68.12	67.97	68.11	68.37	23
24	67.67	67.56	68.98	67.87	67.62	68.25	68.33	68.18	68.08	67.95	68.10	68.30	24
25	67.64	67.65	68.55	67.85	67.62	68.38	68.25	68.24	68.15	67.90	68.16	68.49	25
26	67.63	67.89	68.33	67.83	67.62	69.17	68.52	68.21	68.35	68.01	68.18	68.49	26
27	67.63	67.87	68.20	67.80	67.62	69.10	68.58	68.28	68.31	68.02	68.17	68.46	27
28	67.57	68.15	68.13	67.78	67.62	68.53	68.46	68.47	68.40	68.05	68.25	68.49	28
29	67.57	70.82	68.17	67.77		68.31	68.46	68.50	68.27	68.01	68.25	68.40	29
30	67.57	71.68	68.12	67.75		68.17	68.52	68.52	68.25	68.02	68.20	68.32	30
31	67.57		68.04	67.74		68.33		68.42		68.00	68.19		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11-29-70	2030	71.86									
12-22-70	1245	72.79									
1-15-71	0520	72.89									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CF5	GAGE HT.	DATE			FRDM	TD	
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00 USCS

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-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1971	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.16	41.00	41.74	42.98	42.41	42.04	41.48	41.27	41.15	41.05	41.06	41.08	1
2	41.14	41.00	41.67	43.39	42.94	41.90	41.52	41.27	41.15	41.05	41.08	41.08	2
3	41.14	41.00	41.87	43.61	42.86	41.74	41.65	41.25	41.16	41.08	41.04	41.06	3
4	41.20	41.08	41.82	43.62	42.52	41.72	41.50	41.24	41.16	41.10	41.04	41.07	4
5	41.17	41.06	42.52	43.29	42.45	41.71	41.46	41.24	41.15	41.13	41.06	41.09	5
6	41.15	41.08	43.52	42.41	42.54	41.74	41.82	41.22	41.19	41.09	41.08	41.09	6
7	41.16	41.10	43.59	42.06	42.59	41.94	41.87	41.13	41.15	41.07	41.11	41.07	7
8	41.15	41.09	42.65	42.03	42.52	42.03	41.79	41.25	41.16	41.05	41.08	41.07	8
9	41.19	41.05	42.05	42.02	42.60	41.83	41.71	41.34	41.14	41.04	41.07	41.08	9
10	41.20	41.04	41.85	42.01	42.47	41.73	41.67	41.28	41.13	41.06	41.06	41.08	10
11	41.20	41.25	41.80	41.98	42.48	41.75	41.53	41.28	41.13	41.06	41.07	41.08	11
12	41.16	41.31	41.82	41.99	42.60	41.81	41.48	41.16	41.14	41.08	41.05	41.08	12
13	41.17	41.32	41.93	42.57	42.36	42.07	41.62	41.17	41.16	41.07	41.07	41.08	13
14	41.17	41.32	42.03	43.39	41.82	42.25	41.61	41.15	41.14	41.07	41.08	41.11	14
15	41.35	41.33	42.15	44.12	41.93	42.32	41.44	41.13	41.11	41.08	41.08	41.08	15
16	41.31	41.32	42.19	43.35	42.50	42.23	41.37	41.13	41.11	41.09	41.10	41.08	16
17	41.20	41.30	42.52	42.67	42.57	42.09	41.37	41.16	41.09	41.07	41.10	41.11	17
18	41.15	41.30	42.88	42.51	42.53	41.95	41.61	41.16	41.08	41.14	41.09	41.09	18
19	41.12	41.30	43.24	42.49	42.50	41.81	41.66	41.13	41.11	41.13	41.12	41.08	19
20	41.10	41.30	43.69	42.49	42.51	41.61	41.67	41.13	41.12	41.06	41.09	41.11	20
21	41.07	41.31	43.64	42.49	42.50	41.47	41.65	41.12	41.08	41.05	41.10	41.08	21
22	41.05	41.31	43.84	42.51	42.47	41.44	41.39	41.14	41.09	41.05	41.13	41.08	22
23	41.03	41.30	43.69	42.71	42.37	41.47	41.32	41.14	41.10	41.04	41.15	41.10	23
24	41.02	41.30	43.34	42.95	42.39	41.46	41.28	41.17	41.09	41.05	41.07	41.10	24
25	41.01	41.36	43.38	42.75	42.35	41.57	41.27	41.13	41.10	41.08	41.06	41.14	25
26	41.00	41.36	43.47	42.50	42.23	41.90	41.30	41.16	41.13	41.09	41.07	41.14	26
27	41.00	41.35	43.50	42.31	42.11	41.91	41.30	41.14	41.12	41.04	41.11	41.16	27
28	41.00	41.47	43.51	42.14	41.94	41.78	41.28	41.21	41.11	41.04	41.14	41.14	28
29	40.99	41.70	43.60	42.07	41.73	41.29	41.29	41.19	41.09	41.03	41.12	41.14	29
30	40.99	41.89	43.09	42.13	41.65	41.29	41.29	41.18	41.07	41.09	41.14	41.15	30
31	40.99		42.89	42.41	41.54		41.17	41.17	41.06	41.06	41.07		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE			TIME			GAGE HT.			DATE			TIME			GAGE HT.		
E - ESTIMATED	12-6-70	2200	43.61	2-2-71	2200	43.33												
NR - NO RECORD	12-22-70	2000	44.18															
NF - NO FLOW	1-15-71	1330	44.24															

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B. & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	1878-1884 1891-1894	1940		0.00	USCGS

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

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23.30	22.98	24.75	28.35	27.07	25.86	24.22	23.42	23.14	22.90	22.83	22.92	1
2	23.38	22.98	24.40	28.75	27.61	25.68	24.28	23.52	23.09	22.90	22.85	22.90	2
3	23.32	22.98	24.68	29.12	28.20	25.16	24.43	23.50	23.13	22.87	22.81	22.87	3
4	23.35	23.13	24.70	29.15	27.63	24.98	24.38	23.45	23.15	22.98	22.77	22.87	4
5	23.41	23.12	25.76	28.94	27.25	24.91	24.13	23.41	23.13	23.03	22.83	22.92	5
6	23.35	23.09	28.26	27.90	27.44	24.87	24.59	23.39	23.16	22.93	22.85	22.90	6
7	23.36	23.17	28.85	26.45	27.56	25.33	25.22	23.33	23.13	22.89	22.96	22.88	7
8	23.35	23.15	28.15	26.19	27.44	25.73	25.08	23.42	23.14	22.88	22.90	22.89	8
9	23.36	23.11	26.60	26.11	27.52	25.45	24.85	23.70	23.13	22.90	22.89	22.90	9
10	23.44	23.04	25.51	26.03	27.33	24.97	24.64	23.56	23.05	22.94	22.84	22.87	10
11	23.44	23.22	25.28	25.94	27.27	24.94	24.49	23.57	23.06	22.90	22.81	22.89	11
12	23.36	23.53	25.17	25.93	27.50	25.00	24.22	23.32	23.08	22.92	22.79	22.86	12
13	23.30	23.60	25.43	26.48	27.37	25.61	24.26	23.21	23.06	22.94	22.80	22.83	13
14	23.34	23.62	25.69	28.45	25.76	26.15	24.61	23.19	23.08	22.89	22.84	22.87	14
15	23.49	23.63	26.05	29.28	25.30	26.55	24.21	23.19	22.98	22.85	22.88	22.84	15
16	23.78	23.63	26.39	29.13	26.86	26.54	23.95	23.14	22.98	22.88	22.89	22.85	16
17	23.53	23.61	26.63	28.13	27.39	26.03	23.96	23.19	22.97	22.86	22.85	22.87	17
18	23.38	23.59	27.89	27.51	27.34	25.75	24.25	23.20	22.97	23.00	22.85	22.91	18
19	23.30	23.58	28.49	27.40	27.34	25.28	24.59	23.18	22.97	22.95	22.89	22.90	19
20	23.25	23.58	28.93	27.38	27.26	24.88	24.65	23.15	23.02	22.87	22.90	22.90	20
21	23.18	23.60	29.18	27.35	27.30	24.35	24.63	23.15	22.95	22.80	22.91	22.92	21
22	23.14	23.60	29.17	27.41	27.23	24.17	24.21	23.18	22.94	22.80	22.98	22.86	22
23	23.10	23.58	29.39	27.58	26.90	24.13	23.78	23.08	22.99	22.81	23.06	22.88	23
24	23.08	23.58	28.97	28.21	26.98	24.12	23.66	23.12	22.99	22.83	22.90	22.91	24
25	23.05	23.68	28.91	28.10	26.88	24.23	23.57	23.13	22.97	22.95	22.85	22.92	25
26	23.02	23.71	29.01	27.58	26.67	25.08	23.57	23.10	22.97	22.90	22.88	22.99	26
27	23.02	23.69	29.07	27.08	26.37	25.40	23.64	23.10	23.05	22.85	22.98	23.03	27
28	23.01	23.86	29.08	26.57	25.70	25.15	23.52	23.17	23.01	22.82	23.03	23.00	28
29	23.00	24.43	29.06	26.22		24.91	23.51	23.22	23.03	22.80	23.03	22.96	29
30	22.99	24.86	28.76	26.11		24.73	23.47	23.17	22.98	22.86	23.02	23.01	30
31	22.98		28.36	26.92		24.48		23.18		22.82	22.91		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	0300	29.60									
1-15-71	2400	29.60									

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

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

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

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	807040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.92	14.24	16.80	19.50	18.11	16.40	15.72	14.49	14.89	14.54	13.63	13.86	1
2	14.93	14.25	16.75	19.60	18.21	16.35	15.61	14.69	14.86	14.19	13.60	13.90	2
3	15.08	14.26	16.96	19.75	18.65	16.08	15.57	14.97	14.76	14.05	13.57	13.83	3
4	15.03	14.31	17.10	19.78	18.44	16.07	15.49	15.06	14.69	14.12	13.55	13.89	4
5	15.13	14.43	17.28	19.69	18.14	16.07	15.18	15.15	14.53	14.23	13.43	13.86	5
6	15.18	14.58	18.54	19.33	18.11	15.87	15.12	15.16	14.38	14.08	13.43	13.87	6
7	15.08	14.74	19.13	18.47	18.15	15.95	15.64	15.01	14.46	13.98	13.53	13.87	7
8	15.00	14.78	19.08	18.11	18.13	16.18	15.65	15.12	14.46	13.97	13.56	13.83	8
9	14.90	14.77	18.26	18.01	18.07	16.07	15.56	15.62	14.38	13.97	13.57	13.89	9
10	14.97	14.75	17.32	17.95	18.05	15.70	15.49	15.79	14.45	13.95	13.42	13.78	10
11	14.96	14.77	16.82	17.78	18.10	15.68	15.59	15.64	14.84	13.97	13.39	13.81	11
12	14.96	14.94	16.86	17.58	18.34	15.73	15.45	15.28	14.87	14.06	13.35	14.04	12
13	14.95	14.95	17.13	17.56	18.46	16.15	15.19	15.01	14.79	13.97	13.35	14.10	13
14	14.98	15.02	17.50	18.54	17.85	16.57	15.52	14.91	14.80	13.87	13.46	13.98	14
15	15.08	15.02	17.76	19.18	17.20	17.06	15.71	14.70	15.13	13.87	13.69	13.86	15
16	15.22	14.98	18.04	19.43	17.50	17.18	15.62	14.55	15.38	13.85	13.71	13.76	16
17	15.08	15.02	18.17	18.93	17.96	16.88	15.88	14.57	15.29	13.85	13.62	13.79	17
18	14.77	14.96	17.81	18.50	17.95	16.57	16.18	14.74	15.14	13.85	13.48	13.84	18
19	14.58	14.89	19.26	18.45	17.92	16.22	16.28	14.75	15.31	13.89	13.52	13.87	19
20	14.48	14.86	19.57	18.55	17.81	16.01	16.23	14.70	15.54	13.85	13.64	14.04	20
21	14.38	14.86	19.99	18.60	17.83	15.65	16.06	14.47	15.44	13.83	13.56	14.05	21
22	14.35	14.86	20.17	18.63	17.77	15.56	15.59	14.50	15.04	13.82	13.62	13.92	22
23	14.35	14.87	20.49	18.66	17.63	15.40	15.13	14.49	14.98	13.82	13.94	13.96	23
24	14.39	14.87	20.41	18.96	17.50	15.41	15.01	14.58	14.77	13.82	13.86	14.22	24
25	14.40	14.96	20.30	19.02	17.35	15.54	14.89	14.47	14.68	13.81	13.73	14.24	25
26	14.35	15.05	20.32	18.79	17.12	16.39	14.71	14.31	14.86	13.80	13.65	14.30	26
27	14.33	15.04	20.27	18.45	16.81	16.82	14.67	14.24	14.84	13.78	13.81	14.38	27
28	14.32	15.17	20.15	18.12	16.47	16.77	14.65	14.43	15.44	13.75	13.81	14.38	28
29	14.37	16.05	20.04	17.82	16.59	14.54	14.74	16.25	13.72	13.96	14.27	29	29
30	14.32	16.79	19.94	17.66	16.44	14.49	14.90	14.84	13.70	13.94	14.35	30	30
31	14.24		19.63	17.90	16.14		14.97		13.66	13.90		31	31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	1400	20.55									
1-16-71	0730	19.53									

LOCATION					MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 38 28	121 13 37	SW29 3S 7E		38.31a	1-27-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED	
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	USCGS	
								1959		3.41	USED	

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

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

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.30	2.16	4.59	5.98	5.78	3.43	2.01	1.75	1.64	2.94	1.34	1.53	1
2	1.32	2.17	4.75	6.00	5.78	3.39	1.90	1.75	1.58	2.82	1.38	1.48	2
3	1.34	2.18	4.16	5.98	5.77	3.36	1.75	1.77	1.54	2.08	1.36	1.44	3
4	1.31	2.22	5.35	5.97	5.77	3.51	1.74	1.76	1.54	2.49	1.34	1.43	4
5	1.37	2.21	6.11	5.96	5.76	3.70	1.82	2.04	1.56	1.83	1.35	1.38	5
6	1.40	2.20	6.08	5.95	5.75	3.66	1.67	2.78	1.57	1.60	1.36	1.36	6
7	1.38	2.23	6.06	5.94	5.75	3.44	1.60	2.82	1.94	1.55	1.34	1.53	7
8	1.35	2.19	6.05	5.94	5.75	3.52	1.52	3.23	4.92	1.52	1.38	1.60	8
9	1.34	2.18	3.19	5.92	5.74	3.56	1.65	3.64	5.56	1.45	1.35	1.46	9
10	1.34	2.18	3.62	5.91	5.74	3.42	1.92	3.82	6.41	1.40	1.36	1.40	10
11	1.47	2.16	6.08	5.90	5.74	3.43	1.88	3.45	5.17	1.41	1.41	1.38	11
12	1.43	2.19	6.08	5.90	5.73	3.22	1.83	3.04	5.14	1.40	1.40	1.41	12
13	1.37	2.17	6.08	5.97	5.73	2.67	1.68	2.88	5.45	1.37	1.41	1.40	13
14	1.37	2.17	6.07	6.17	5.72	3.05	1.67	2.84	7.28	1.36	1.41	1.39	14
15	1.57	2.16	6.06	5.94	5.72	3.18	1.78	3.05	6.95	1.36	1.40	1.36	15
16	2.28	2.17	6.08	5.91	5.71	3.43	1.80	5.09	6.32	1.36	1.38	1.40	16
17	2.30	2.17	6.08	5.88	5.71	3.32	1.81	5.41	6.15	1.35	1.42	1.33	17
18	2.41	2.17	6.08	5.88	5.71	3.23	1.72	5.38	7.17	1.35	1.42	1.36	18
19	2.66	2.18	6.22	5.60	5.71	3.27	1.80	4.21	6.42	1.36	1.42	1.42	19
20	2.35	2.58	6.11	5.85	5.70	3.47	1.75	2.86	6.04	1.37	1.47	1.39	20
21	2.32	3.44	6.30	5.85	5.69	3.66	1.65	2.59	5.79	1.36	1.50	1.38	21
22	2.32	3.48	6.15	5.85	5.62	3.67	1.69	1.84	5.61	1.35	1.48	1.41	22
23	2.32	3.48	6.08	5.85	4.20	3.47	2.68	1.71	4.96	1.35	1.46	1.40	23
24	2.33	3.44	6.06	5.84	3.50	3.45	2.80	1.64	4.88	1.36	1.48	1.40	24
25	2.32	3.50	6.05	5.83	3.43	3.23	2.79	1.65	4.71	1.35	1.45	1.40	25
26	2.28	3.63	6.04	5.82	3.39	2.32	2.63	1.64	4.04	1.32	1.47	1.45	26
27	1.93	3.76	6.03	5.82	3.38	2.93	1.80	1.65	7.84	1.31	1.45	1.49	27
28	1.90	4.58	6.01	5.81	3.41	2.97	1.72	1.71	6.09	1.32	1.48	1.62	28
29	1.88	4.97	6.00	5.80		2.92	1.77	3.54	3.21	1.38	1.51	1.92	29
30	1.88	4.57	6.00	5.80		2.98	1.78	2.98	3.74	1.33	1.54	2.00	30
31	2.10	5.99	5.79			2.65		1.81		1.33	1.55		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
6-27-71	1630	10.23									

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				117.21	USCGS
						APR 40-DATE					

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-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	37.00	36.46	41.26	43.34	43.01	39.01	38.47	37.31	38.17	40.17	36.50	36.73	1
2	37.05	36.57	41.16	43.38	43.00	38.99	38.12	37.43	37.84	39.31	36.66	36.64	2
3	36.94	36.60	41.47	43.38	42.98	38.93	37.93	37.53	37.64	39.00	36.78	36.62	3
4	36.90	36.70	40.36	43.33	42.98	39.07	37.68	37.61	37.49	38.35	36.39	36.77	4
5	36.94	36.82	41.88	43.30	42.98	39.32	37.67	37.59	37.66	38.47	36.41	36.85	5
6	36.87	36.86	42.95	43.28	42.97	39.58	37.29	37.79	37.86	37.82	36.52	36.96	6
7	36.65	36.99	43.04	43.27	42.95	39.48	37.30	38.15	37.76	37.49	36.47	36.89	7
8	36.83	37.17	43.09	43.26	42.93	39.43	37.20	38.69	37.82	37.50	36.60	36.58	8
9	36.74	36.93	42.67	43.25	42.92	39.57	37.28	39.47	40.71	37.34	36.64	36.53	9
10	36.50	36.71	39.36	43.20	42.91	39.25	37.33	39.47	42.45	37.10	36.57	36.51	10
11	36.59	36.68	39.97	43.19	42.91	39.09	37.49	39.55	43.37	37.06	36.53	36.73	11
12	36.72	36.64	42.72	43.19	42.90	39.00	37.50	39.25	42.10	37.15	36.47	36.76	12
13	37.16	36.63	43.07	43.20	42.88	39.19	37.55	38.76	41.99	37.06	36.52	36.74	13
14	37.17	36.62	43.14	43.41	42.87	38.46	37.61	38.48	42.95	37.03	36.71	36.57	14
15	37.58	36.61	43.18	43.55	42.86	38.63	37.31	38.20	45.46	36.91	36.78	36.49	15
16	38.11	36.60	43.23	43.28	42.85	38.79	37.57	38.69	45.42	36.72	36.55	36.58	16
17	38.20	36.60	43.30	43.22	42.85	39.16	37.73	41.42	44.43	36.86	36.68	36.44	17
18	37.57	36.59	43.30	43.20	42.82	39.27	37.87	42.18	44.19	37.22	36.54	36.34	18
19	37.42	36.60	43.42	43.18	42.84	39.30	37.96	42.17	45.43	36.94	36.32	36.37	19
20	37.52	36.60	43.66	42.82	42.81	39.22	37.85	40.58	44.58	36.82	36.50	36.34	20
21	37.17	36.92	43.50	43.10	42.78	39.24	37.66	38.89	43.97	36.59	36.37	36.52	21
22	37.03	37.96	43.86	43.13	42.79	39.64	37.27	38.41	43.34	36.55	36.74	37.02	22
23	36.95	38.25	43.59	43.12	42.40	39.53	37.36	37.77	42.95	36.49	37.10	37.21	23
24	36.94	38.34	43.45	43.11	40.45	39.42	37.98	37.50	41.78	36.73	37.01	37.04	24
25	36.90	38.42	43.38	43.08	39.54	39.34	38.31	37.38	41.92	36.87	36.66	37.03	25
26	36.88	38.63	43.38	43.08	39.25	39.77	38.23	37.11	41.35	37.09	36.60	37.44	26
27	36.84	38.78	43.38	43.08	39.12	39.46	38.01	37.16	41.20	36.91	36.38	37.94	27
28	36.61	39.03	43.37	43.07	39.07	39.64	37.58	37.75	46.98	36.88	36.58	37.98	28
29	36.47	41.34	43.37	43.06		39.56	37.42	37.72	44.68	36.85	36.65	37.74	29
30	36.39	42.18	43.36	43.04		39.12	37.44	39.09	40.44	36.52	36.85	37.85	30
31	36.36		43.35	43.03		39.05		39.08		36.36	36.79		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E -- ESTIMATED
NR -- NO RECORD
NF -- NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-9-70	0100	43.12	6-11-71	0330	44.10	6-28-71	2300	48.97
12-22-70	1130	43.92	6-16-71	0030	45.92			
5-19-71	0700	42.29	6-19-71	0830	45.78			

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

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

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	28.08	27.47	32.48	34.12	33.82	30.22	29.69	28.36	29.55	31.67	27.70	27.72	1
2	28.28	27.61	32.18	34.14	33.81	30.17	29.46	28.71	29.06	30.72	27.80	27.59	2
3	28.19	27.64	32.59	34.13	33.80	30.12	29.18	28.75	28.82	30.34	27.75	27.61	3
4	28.14	27.75	32.59	34.11	33.79	30.19	28.90	28.68	28.60	29.83	27.52	27.55	4
5	28.16	27.86	32.52	34.09	33.80	30.41	28.85	28.62	28.74	29.94	27.40	27.88	5
6	28.29	27.92	33.76	34.08	33.79	30.68	28.51	28.76	29.14	29.24	27.48	27.96	6
7	28.11	27.96	33.88	34.06	33.77	30.64	28.50	29.18	28.93	28.80	27.52	28.04	7
8	28.19	28.23	33.93	34.05	33.75	30.55	28.40	29.88	28.60	28.81	27.46	27.64	8
9	28.24	27.95	33.80	34.04	33.75	30.70	28.49	30.72	31.37	28.75	27.46	27.46	9
10	28.11	27.78	31.06	34.00	33.74	30.44	28.39	30.74	33.05	28.52	27.54	27.37	10
11	28.15	27.73	30.61	33.98	33.73	30.26	28.69	30.67	34.20	28.39	27.60	27.62	11
12	28.15	27.71	33.36	33.97	33.72	30.15	28.70	30.47	33.24	28.38	27.57	27.78	12
13	28.40	27.69	33.87	33.98	33.70	30.41	28.58	30.03	33.07	28.33	27.50	27.66	13
14	28.43	27.68	33.97	34.11	33.70	29.72	28.78	29.64	33.62	28.15	27.91	27.33	14
15	28.63	27.67	34.00	34.33	33.68	29.76	28.48	29.27	35.82	28.14	28.12	27.24	15
16	29.18	27.66	34.05	34.08	33.68	29.78	28.72	29.68	36.06	27.90	27.75	27.38	16
17	29.44	27.65	34.11	34.01	33.68	30.34	28.91	32.00	35.25	27.83	27.75	27.34	17
18	28.78	27.65	34.12	33.98	33.65	30.36	29.14	33.02	34.89	28.34	27.69	27.42	18
19	28.51	27.65	34.20	33.96	33.66	30.53	29.20	33.11	35.96	28.10	27.38	27.35	19
20	28.62	27.65	34.42	33.67	33.65	30.52	29.17	32.04	35.42	27.87	27.52	27.34	20
21	28.25	27.80	34.30	33.84	33.61	30.35	29.01	30.36	34.94	27.59	27.57	27.45	21
22	28.10	28.77	34.58	33.89	33.62	30.82	28.46	29.78	34.27	27.53	27.75	27.68	22
23	28.01	29.22	34.42	33.89	33.43	30.75	28.49	29.05	34.00	27.44	28.20	28.28	23
24	27.98	29.26	34.25	33.87	31.92	30.73	29.02	28.71	33.05	27.62	28.20	28.19	24
25	27.94	29.46	34.18	33.86	30.96	30.61	29.47	28.50	32.94	27.75	27.77	28.23	25
26	27.90	29.65	34.17	33.85	30.60	31.15	29.50	28.40	32.70	28.18	27.73	28.49	26
27	27.87	29.86	34.17	33.84	30.40	30.83	29.23	28.31	32.14	28.00	27.46	29.01	27
28	27.69	29.95	34.16	33.84	30.31	30.88	28.70	28.79	36.46	28.00	27.60	29.33	28
29	27.52	31.97	34.15	33.84	30.95	28.38	28.97	28.97	36.25	27.87	27.85	29.06	29
30	27.45	33.48	34.15	33.83	30.50	28.39	30.01	31.84	27.61	28.00	28.00	29.11	30
31	27.42		34.13	33.82	30.37		30.42		27.50	27.93			31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-22-70	1500	34.66									
6-16-71	0400	36.42									
6-29-71	0140	38.85									

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			FRDM	TD			
37 41 57	121 10 08	SW 2 3S 7E							1950 1963	1962	-0.63 0.37	USC&GS USC&GS

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

TABLE B-9 (Cont.)

WATER YEAR	STATION NO.	STATION NAME
1971	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.19	10.53	13.44	15.88	14.73	12.56	11.92	10.51	11.29	11.47	9.23	9.65	1
2	11.36	10.56	13.25	15.92	14.74	12.50	11.71	10.79	11.07	10.99	9.40	9.67	2
3	11.39	10.58	13.45	16.07	15.10	12.28	11.60	11.07	10.91	10.74	9.39	9.61	3
4	11.45	10.63	13.44	16.10	14.98	12.20	11.52	11.17	10.84	10.67	9.23	9.62	4
5	11.47	10.75	13.51	16.04	14.72	12.24	11.26	11.22	10.68	10.74	9.20	9.69	5
6	11.52	10.89	14.67	15.78	14.68	12.17	11.25	11.27	10.58	10.46	9.19	9.67	6
7	11.40	11.05	15.33	15.10	14.71	12.21	11.41	11.22	10.65	10.15	9.31	9.70	7
8	11.33	11.15	15.37	14.78	14.71	12.38	11.48	11.36	10.49	10.09	9.34	9.62	8
9	11.28	11.14	14.78	14.71	14.62	12.33	11.42	11.93	10.76	10.00	9.35	9.64	9
10	11.34	11.07	13.73	14.66	14.63	11.93	11.42	12.27	11.46	9.93	9.24	9.51	10
11	11.38	11.06	12.98	14.56	14.64	11.93	11.56	12.03	12.09	9.98	9.16	9.53	11
12	11.35	11.18	13.42	14.39	14.74E	11.98	11.49	11.76	12.06	10.04	9.17	9.84	12
13	11.34	11.19	13.80	14.35	14.69E	12.38	11.12	11.39	11.92	9.93	9.11	9.90	13
14	11.40	11.24	14.12	15.07	14.26E	12.64	11.46	11.22	11.88	9.73	9.24	9.71	14
15	11.49	11.26	14.34	15.66	13.94E	13.00	11.70	10.91	12.45	9.65	9.55	9.52	15
16	11.77	11.22	14.56	15.90	14.09E	13.14	11.56	10.83	12.83	9.58	9.66	9.43	16
17	11.84	11.25	14.69	15.53	14.63E	13.05	11.81	11.18	12.61	9.56	9.54	9.43	17
18	11.52	11.22	15.13	15.15	14.68	12.83	12.10	11.79	12.38	9.72	9.40	9.54	18
19	11.27	11.16	15.53	15.08	14.68	12.58	12.26	11.89	12.57	9.89	9.39	9.62	19
20	11.13	11.14	15.82	15.14	14.62	12.42	12.18	11.80	12.79	9.67	9.43	9.73	20
21	11.00	11.14	16.15	15.16	14.60	12.06	12.09	11.18	12.70	9.46	9.31	9.69	21
22	10.88	11.29	16.35	15.22	14.56	12.04	11.61	10.98	12.24	9.30	9.51	9.73	22
23	10.84	11.49	16.62	15.23	14.47	11.96	11.03	10.73	12.14	9.28	9.76	9.85	23
24	10.84	11.56	16.60	15.46	13.91E	11.95	10.96	10.72	11.93	9.25	9.78	10.08	24
25	10.85	11.65	16.49	15.56	13.74E	12.01	11.04	10.50	11.72	9.36	9.59	10.15	25
26	10.78	11.78	16.50	15.37	13.34E	12.85	10.99	10.35	11.98	9.61	9.39	10.23	26
27	10.75	11.83	16.49	15.03	12.74E	13.23	10.84	10.24	11.81	9.54	9.54	10.38	27
28	10.69	11.90	16.40	14.78	12.32E	13.10	10.78	10.36	12.57	9.53	9.50	10.50	28
29	10.68	12.91	16.31	14.55	12.95	12.95	10.56	10.83	13.82	9.46	9.75	10.45	29
30	10.66	14.01	16.24	14.42	12.72	12.72	10.47	11.12	11.97	9.40	9.85	10.48	30
31	10.57		16.00	14.56		12.41		11.50		9.33	9.79		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
NR - NO RECORD	12-23-70	1530	16.69									
NE - NO FLOW	1-16-71	0800	15.97									
	6-29-71	1100	14.12									

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 40 34	121 15 55		79000	27.75	12- 9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12- 9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28					
						MAY 29-DATE		1959		0.00	USCGS

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

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

TABLE B-10
CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published 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-10

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE & BANK	LOCATION OF ERROR		ITEM	CHANGE		
		NAME			FROM	TO	
132		Bulletin No. 23-58 Surface Water Flow for 1958		July acre-feet Water Year Total		247300 1292000	24730 1069000
B-19		Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley		Table B-9 Miami Creek near Oakhurst	Maximum Discharge 1963 Water Year	1140E	804
B-29		Table B-19 Bear Creek near Cathay		Maximum Discharge 1963 Water Year	flow gage ht.	3850E 9.98	4170E 10.07
B-98	(12.00- 13.75)	Table B-87 Tranquillity Irrigation District		Maximum Discharge of record	flow gage ht.	3850E 9.98	4170E 10.07
68		Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley		Table B-4 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
78		Table B-4 Bear Creek near Catheys Valley		Maximum Discharge of record	flow gage ht.	3850E 9.98	4170E 10.07
61		Bulletin No. 130-65 Hydrologic Data 1965 Volume IV, San Joaquin Valley		Table B-5 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
72		Table B-5 Bear Creek near Catheys Valley		Maximum Discharge of record	flow gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
82		Table B-5 Orestimba Creek near Crows Landing		Daily Mean Discharge		0.0	B NR
				Jan. 8		0.0	A NR
				9		0.0	C NR
				10		0.0	K NR
				11		0.0	W NR
				12		0.0	A NR
				13		0.0	T NR
				14		0.0	E NR
				15		0.0	R NR
				16		0.0	R NR
				17		0.0	R NR
115	112.55E	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
76		Bulletin No. 130-66 Hydrologic Data 1966 Volume IV, San Joaquin Valley		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record	4166E 9.97 1-7-65	4170E 10.07 2-1-63
78		Table B-4 Burns Creek at Hornitos		Maximum Discharge 1966 Water Year		1330E	2020E

TABLE 8-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE & BANK	LOCATION OF ERROR		ITEM	CHANGE		
			NAME		FROM	TO	
86		Table B-4	Merced River at Cressey	Minimum discharge 1966 Water Year	Month 7	8	
130		Table B-7	Turlock Irrigation District	Total acre-feet diverted - January Average cubic feet per second Monthly use in percent of seasonal Total Diversion Average cubic feet per second	18033 293 3.5 516577 714	1833 29.8 0.4 500377 691	
133		Table B-9	Exports from Tuolumne River	Total acre-feet	Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	15655 12685 14987 7812 11913 15566 11060 15208 18388 21398 21312 19498 185482	15696 12721 15023 7851 11946 12607 11106 15260 18438 21462 21379 19552 183041
122	255.34R	Table B-6	Sycamore Island Stock Ranch 5	Divisions	Sept. Total	40 278	17 255
104		Table B-5	Laguna Water District	Divisions	May June July Aug. Total	90 110 110 90 400	
107	1.9 L 2.9 L	Table B-5	J. V. Steenstrup Estate	Name	J. V. Steen- strup Estate	John & Robert Bogetti	
54		Table B-4	San Joaquin River near Dos Palos	Maximum Discharge 1969 Water Year	Month Day Time Gage Ht. Flow	3 11 2300 10.42 5560	6 16 0800 10.38 5900
78		Table B-4	Merced River below Snelling	Daily Mean Discharge Jan. 21 Monthly Mean Monthly acre-feet	946 189 11620	980 190 11680	
87		Table B-4	San Joaquin River at Maze Road Bridge	Maximum Discharge 1969 Water Year Maximum Discharge of record Last line	Discharge Gage Ht. Time CFS Gage Ht. Feet Hours Date	42800 36.46 0400 42800 36.46 37.00 2400 2-28-69	45550 36.87 0300 45550 36.87 38.31 2000 1-27-69
95		Table B-4	Tule River below Porterville	Maximum Discharge 1969 Water Year	Discharge Gage Ht. Month Day Time	3066 5.35 2 26 1200	
130		Table B-12	San Joaquin River at Fremont Ford Bridge	Maximum Discharge of Record Footnote a	CFS Gage Ht. Date Delete Entire Note	8260b 68.02 2-27-69 2-26-69	9180b 68.05 2-26-69

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE & BANK	LOCATION OF ERROR NAME	ITEM	CHANGE	
				FROM	TO
133		Table B-12 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a
140		Table B-12 San Joaquin River at Maze Road Bridge	Maximum Discharge of Record Gage Ht. Date	37.00a 2-28-69	38.31a 1-27-69
		Bulletin No. 130-70 Hydrologic Data 1970 Volume IV, San Joaquin Valley			
95		Table B-4 Woods-Central Ditch near Porterville	Daily Mean Discharge June 5 Monthly Acre-feet Water Year Total	132.0 7604 43386	27.5 7397 43179
108		Table B-6 Woods-Central Ditch	Diversions June Total	7604 43386	7397 43179
117		Table B-11 San Joaquin River at Fremont Ford Bridge	Maximum Discharge of Record CFS Gage Ht. Date Footnote a	8260b 68.02 2-27-69	9180b 68.05 2-26-69
120		Table B-11 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a

APPENDIX C
GROUND WATER MEASUREMENT

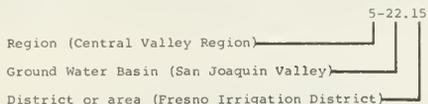
INTRODUCTION

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

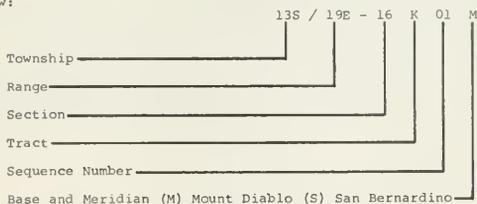
This appendix presents ground water measurement data on these wells for the period October 1, 1970, through September 30, 1971. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, 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:



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:



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:

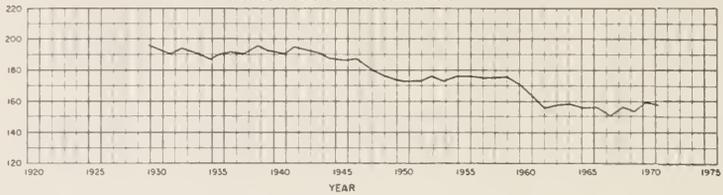
D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

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.

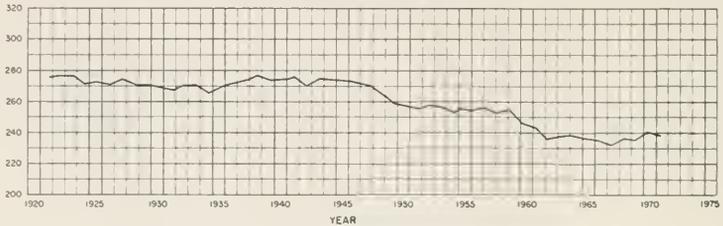
Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

X
 D
 A
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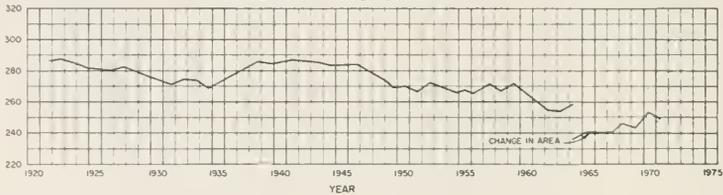
MADERA GROUND WATER AREA
 AREA 342.6 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 230'



FRESNO GROUND WATER AREA
 AREA 404.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 291'



CONSOLIDATED GROUND WATER AREA
 AREA 243.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 296'



CENTERVILLE BOTTOMS GROUND WATER AREA
 AREA 18.15 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 363'

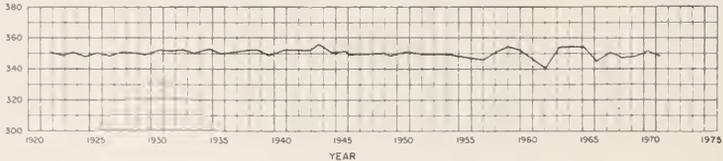
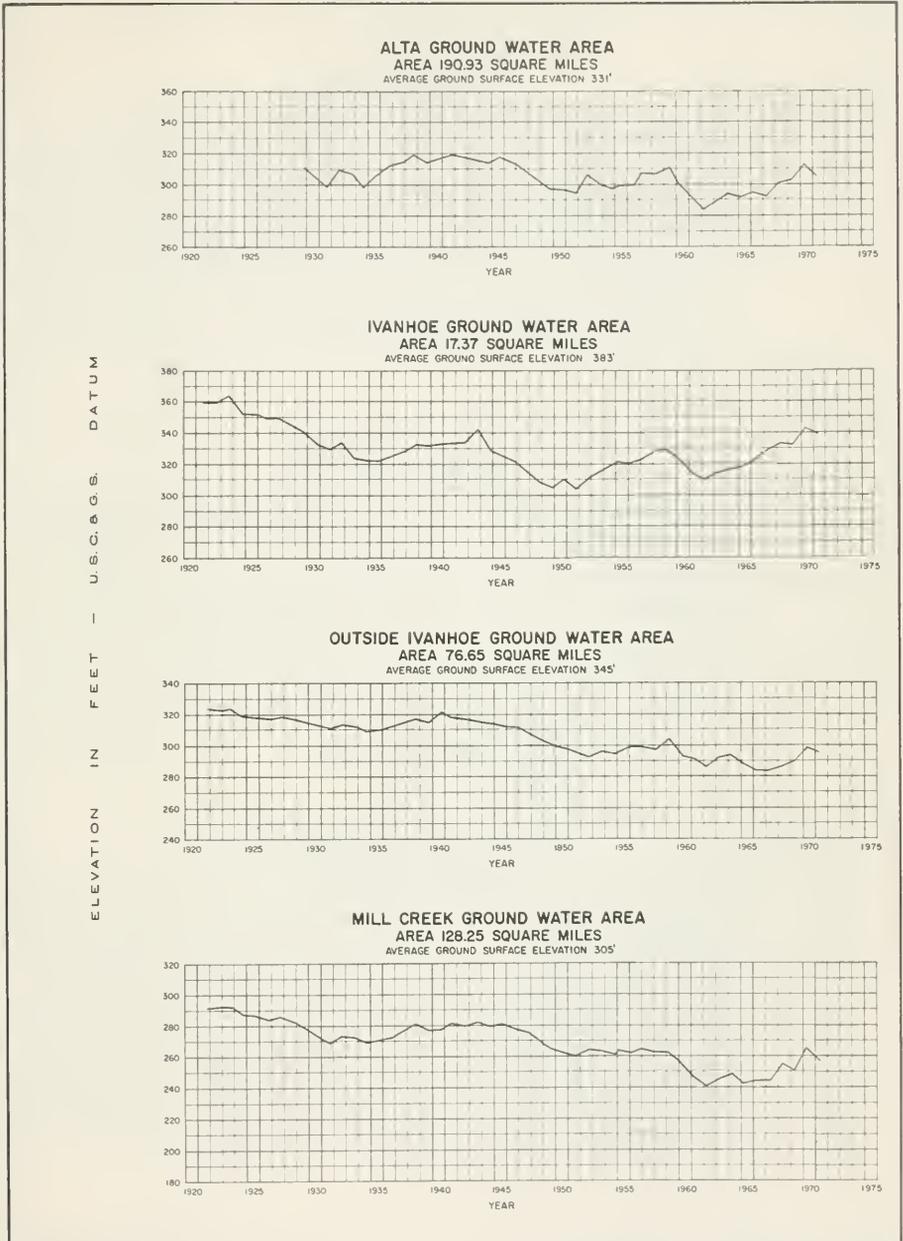


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

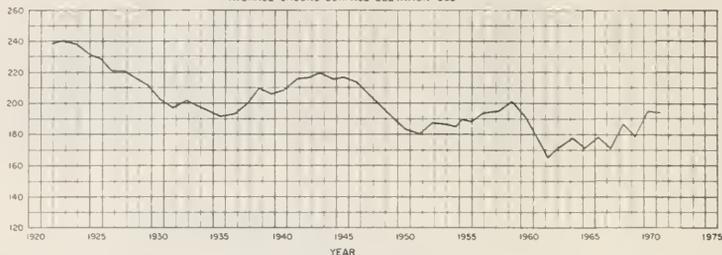


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

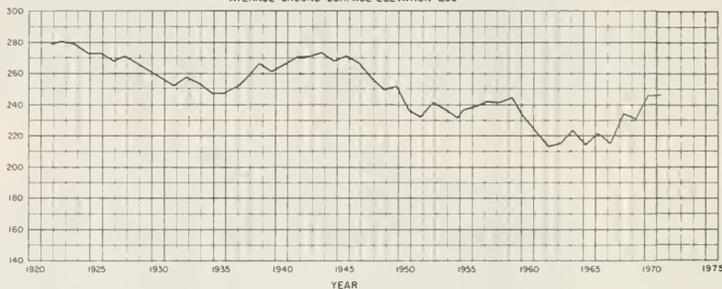
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

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

TULARE GROUND WATER AREA
 AREA 121.07 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 363'



ELK BAYOU GROUND WATER AREA
 AREA 67.6 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 295'



LINDSAY-EXETER GROUND WATER AREA
 AREA 136.43 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 377'

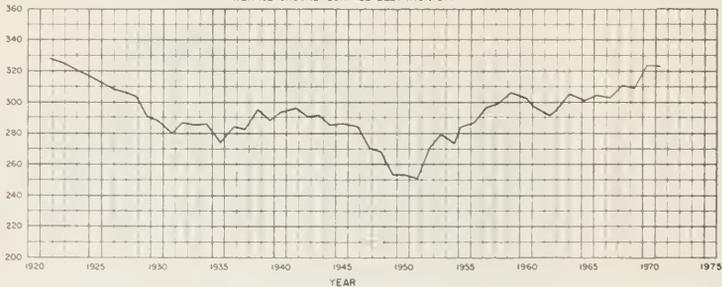
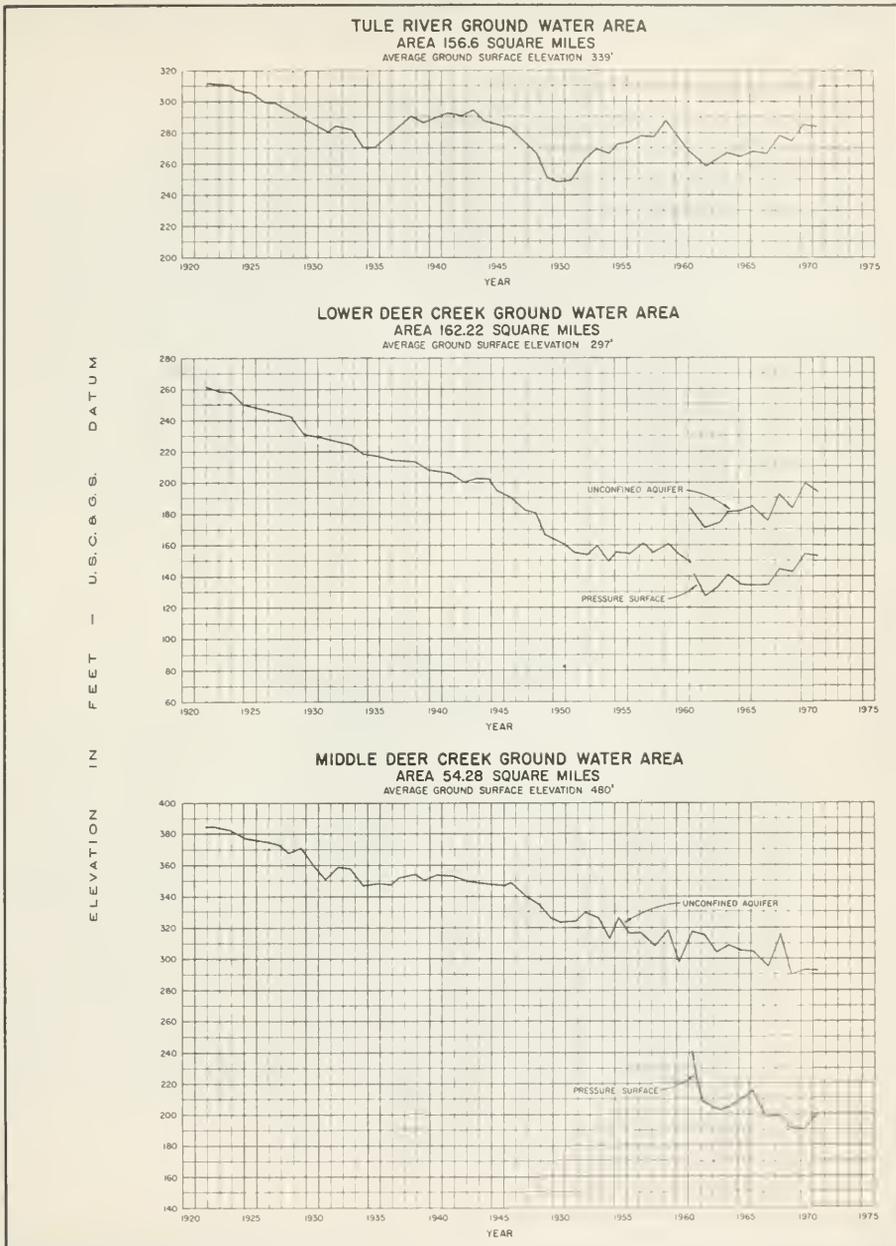


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

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

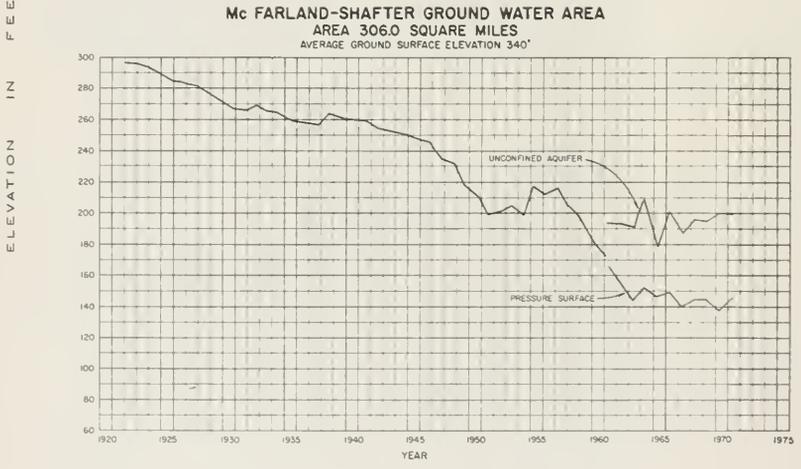
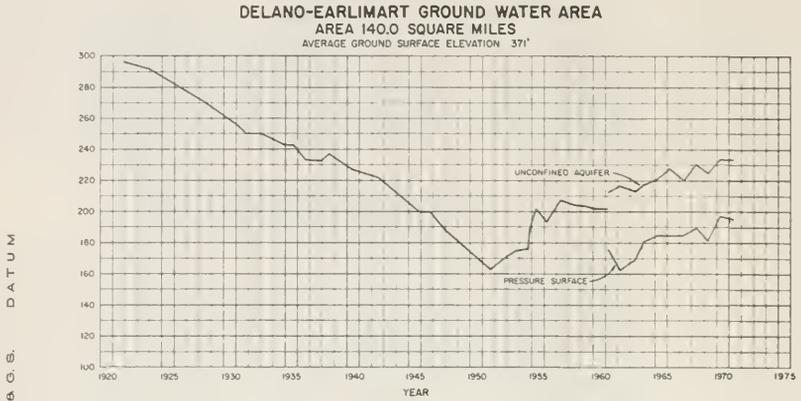
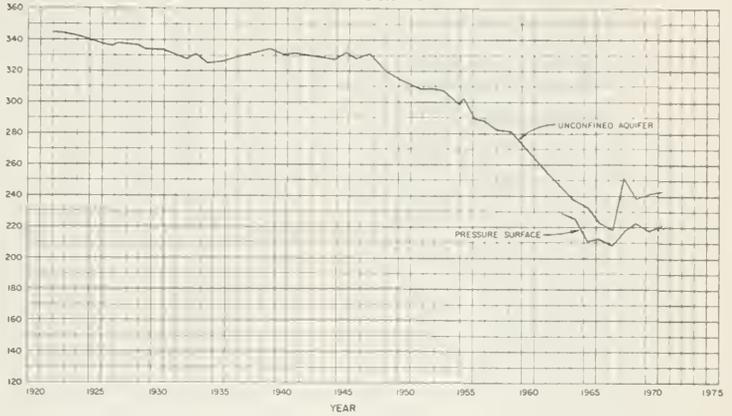


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

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

ROSEDALE GROUND WATER AREA
 AREA 78.88 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 363'



ARVIN-EDISON GROUND WATER AREA
 AREA 205.18 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 543'

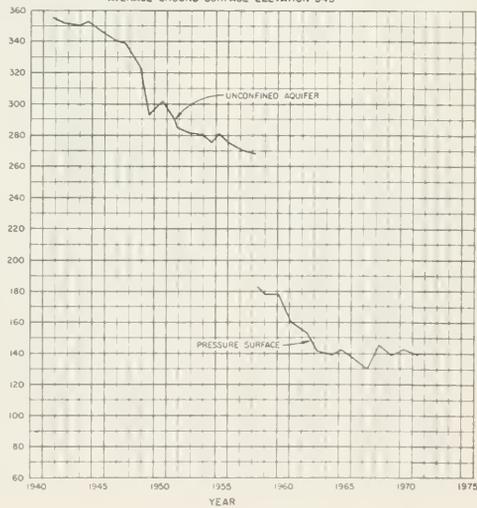


Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

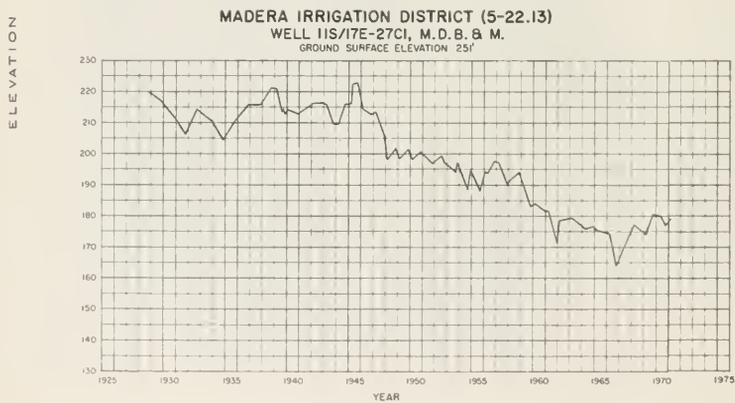
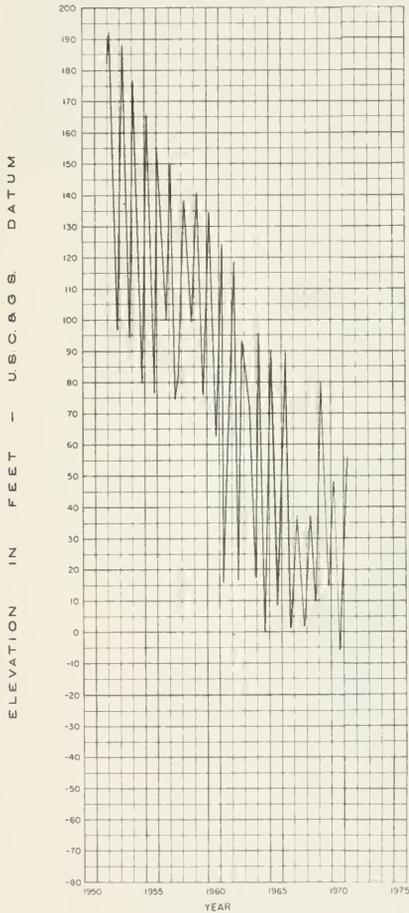
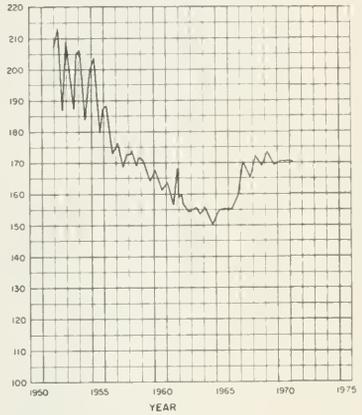


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

SEMITROPIC WATER STORAGE DISTRICT-
DEEP ZONE (5-22.43)
WELL 27S/23E-1R4, M.D.B. & M.
GROUND SURFACE ELEVATION 267'



SEMITROPIC WATER STORAGE DISTRICT-
SHALLOW ZONE (5-22.43)
WELL 27S/23E-1R1, M.D.B. & M.
GROUND SURFACE ELEVATION 267'



MERCED IRRIGATION DISTRICT
(5-22.09)
WELL 7S/11E-1H1, M.D.B. & M.
GROUND SURFACE ELEVATION 118'

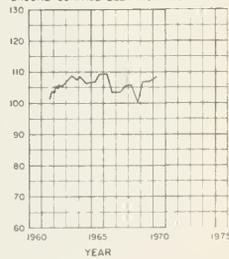
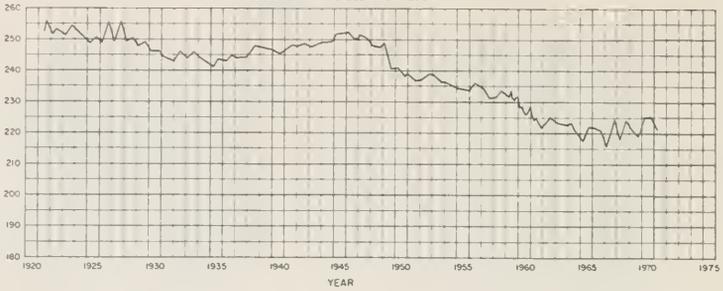


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

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

FRESNO IRRIGATION DISTRICT (5-22.15)
WELL 135/19E-901, M.D.B. & M.
 GROUND SURFACE ELEVATION 288'



NORTH KERN WATER STORAGE DISTRICT (5-22.37)
WELL 27S/25E-22A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 392'

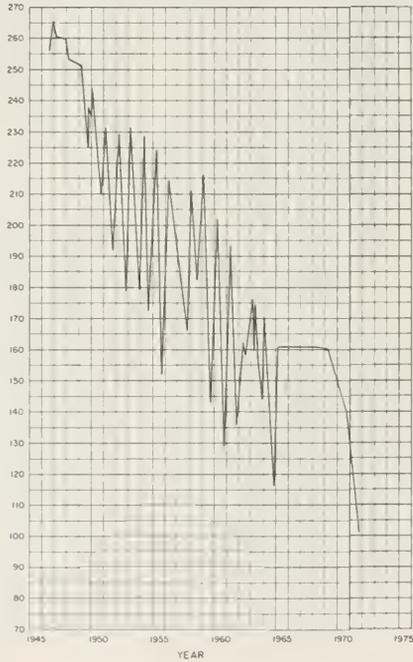


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

DATUM
U.S.C.&G.S.
—
FEET
IN
ELEVATION

LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)
WELL 2S/26E-7A1, M.D.B.&M.
GROUND SURFACE ELEVATION 330'



OAKDALE IRRIGATION DISTRICT (5-22.06)
WELL 2S/10E-33J1, M.D.B.&M.
GROUND SURFACE ELEVATION 167'

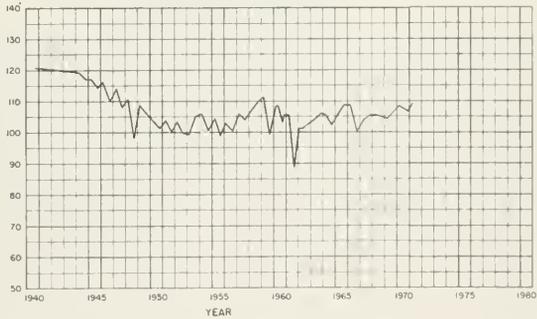
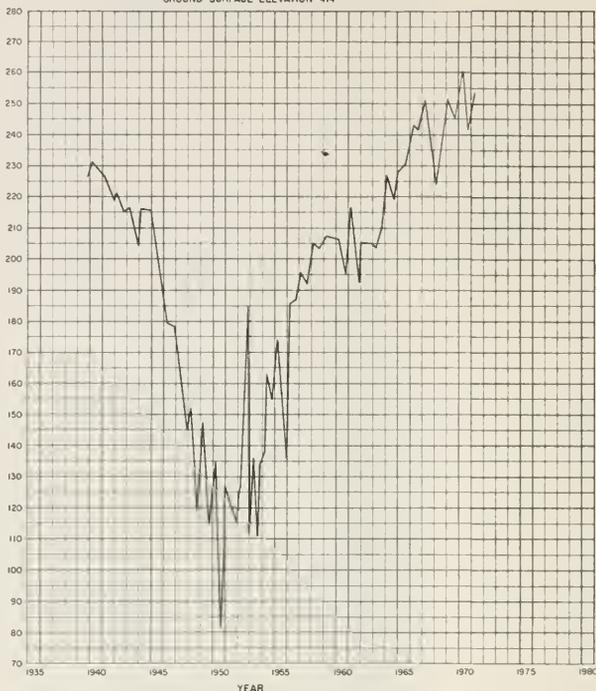


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

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

SOUTHERN SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)
WELL 25S/26E-2BH2, M.D.B. & M.
 GROUND SURFACE ELEVATION 414'



AVENAL-Mc KITTRICK AREA (5-22.44)
WELL 25S/19E-20Q2 M.D.B. & M.
 GROUND SURFACE ELEVATION 480'

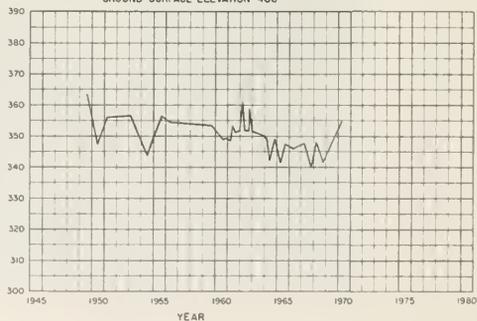
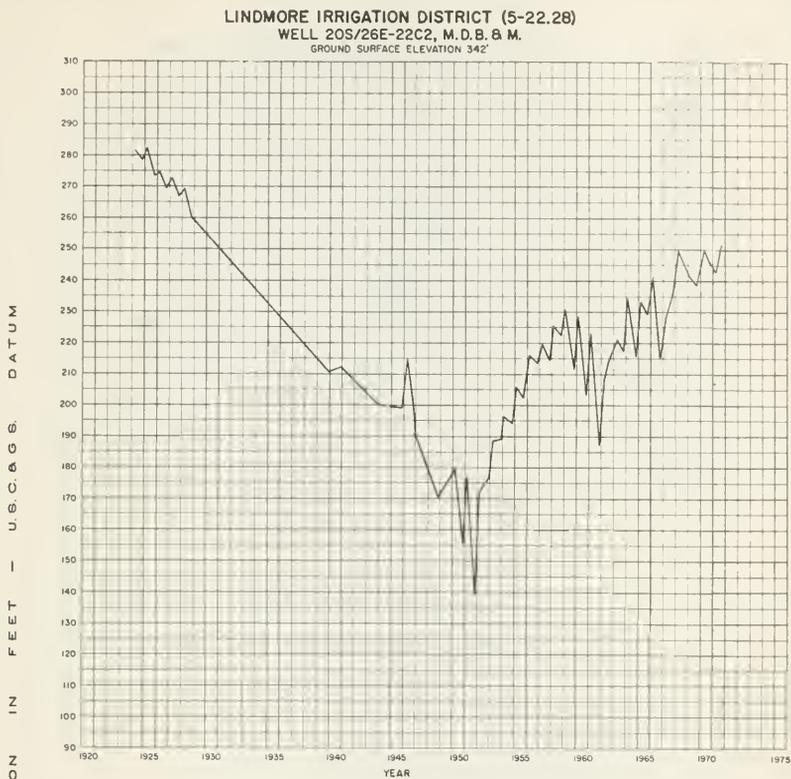
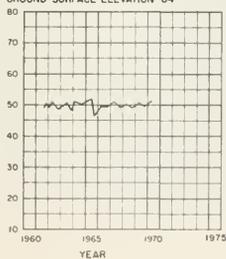


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



MODESTO IRRIGATION DISTRICT
(5-22.07)

WELL 3S/8E-22C2, M.D.B. & M.
 GROUND SURFACE ELEVATION 64'



TURLOCK IRRIGATION DISTRICT
(5-22.08)

WELL 5S/9E-4A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 70'

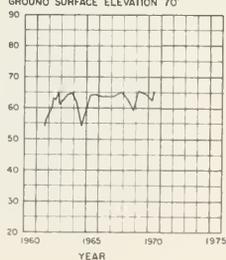
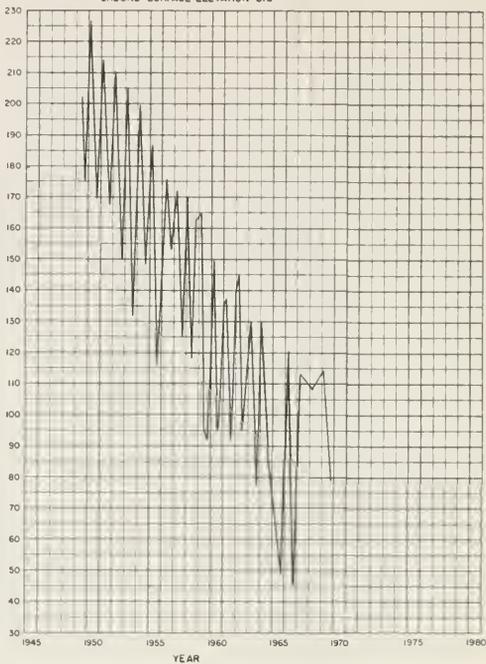


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

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

SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)
WELL 27S/24E-35C1, M.D.B. & M.
 GROUND SURFACE ELEVATION 316'



DELTA-MENDOTA AREA-SHALLOW ZONE (5-22.11)
WELL 3S/6E-1B1, M.D.B. & M.
 GROUND SURFACE ELEVATION 99'

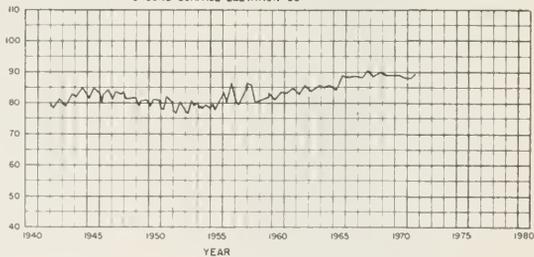
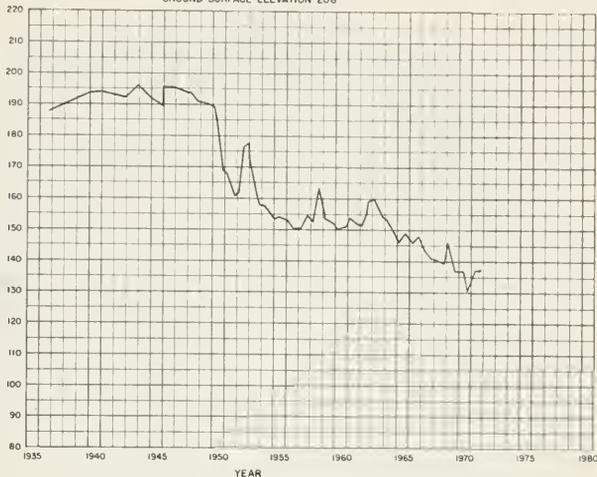


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET DATUM

ALPAUGH-ALLENSWORTH AREA (5-22.34)
WELL 24S/23E-21B2, M.D.B. & M.
 GROUND SURFACE ELEVATION 206'



MENDOTA-HURON AREA (5-22.47)
WELL 17S/16E-24R1, M.D.B. & M.

GROUND SURFACE ELEVATION 258' SUBSIDIANCE CORRECTION GROUND SURFACE ELEVATION 235'

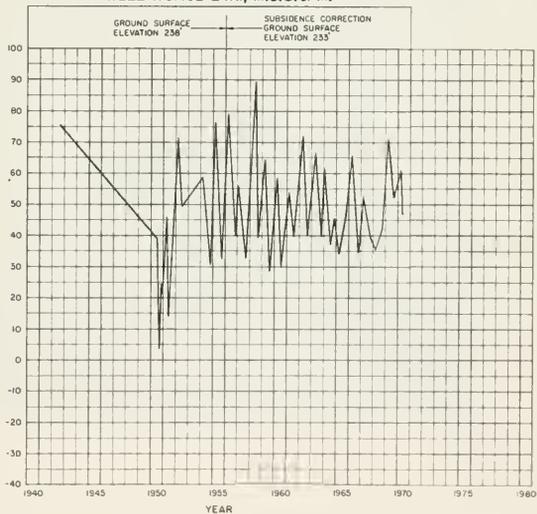


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

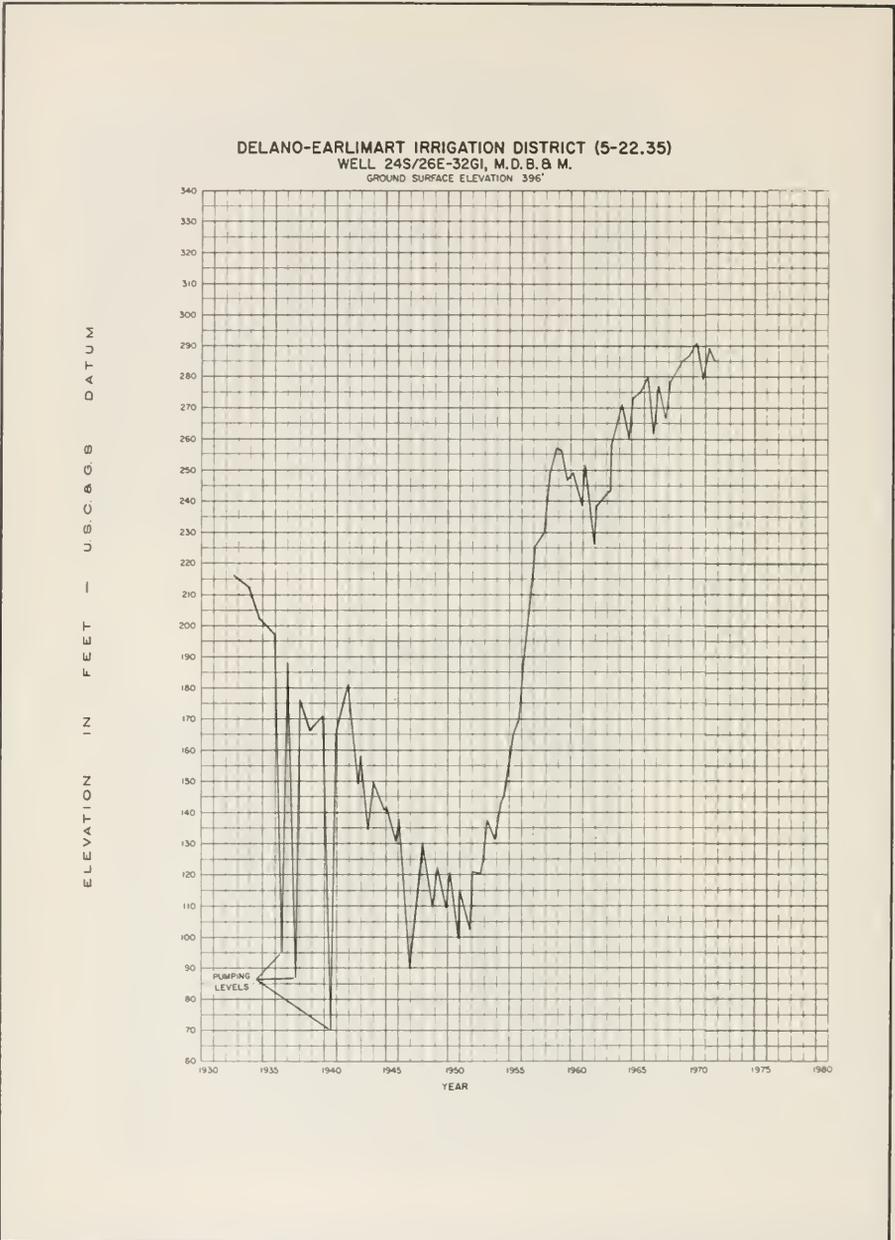
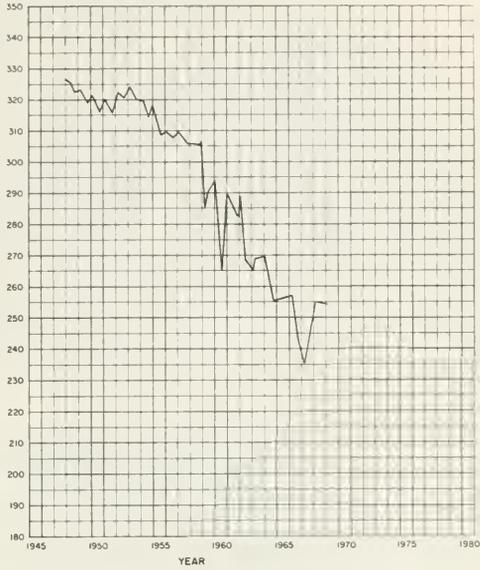


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

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

KERN RIVER DELTA AREA (5-22.40)
WELL 30S/26E-27A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 339'



STONE CORRAL IRRIGATION DISTRICT (5-22.22)
WELL 17S/26E-7R1, M.D.B. & M.
 GROUND SURFACE ELEVATION 364'

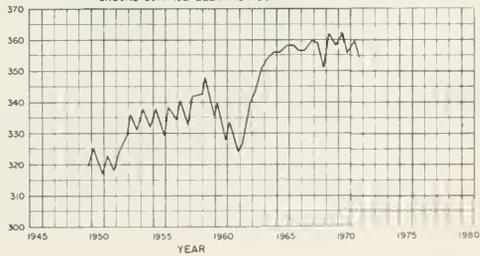
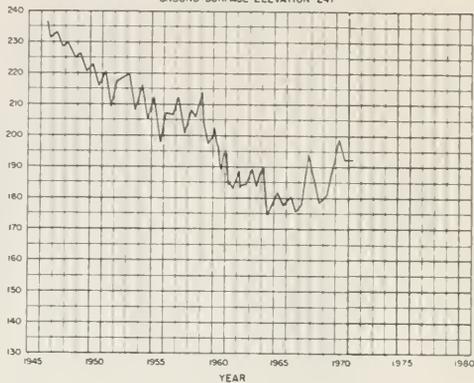


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET U.S.G.A.C.G. DATUM

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



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

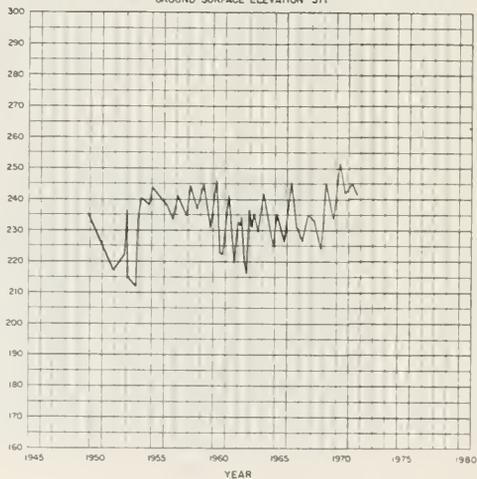


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

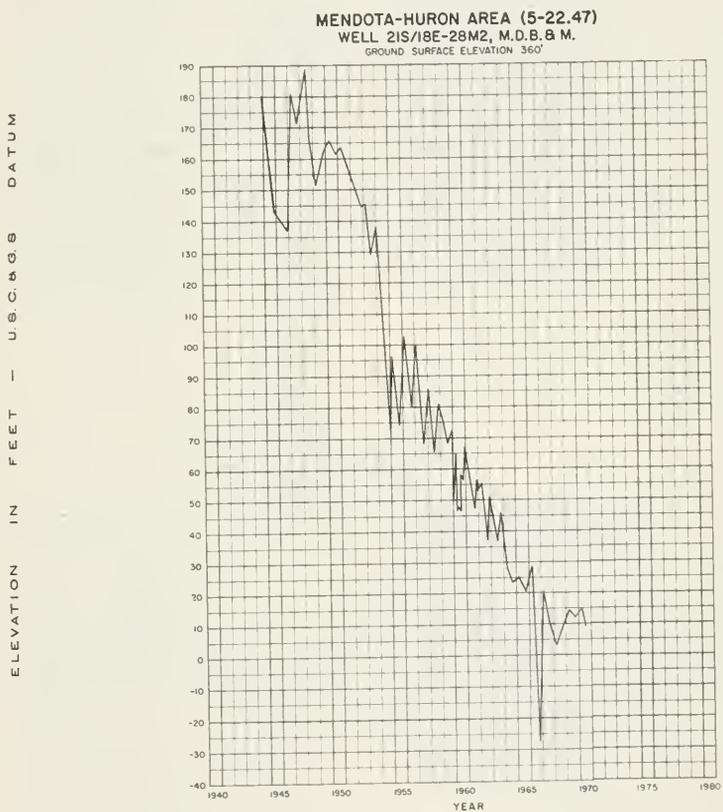


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

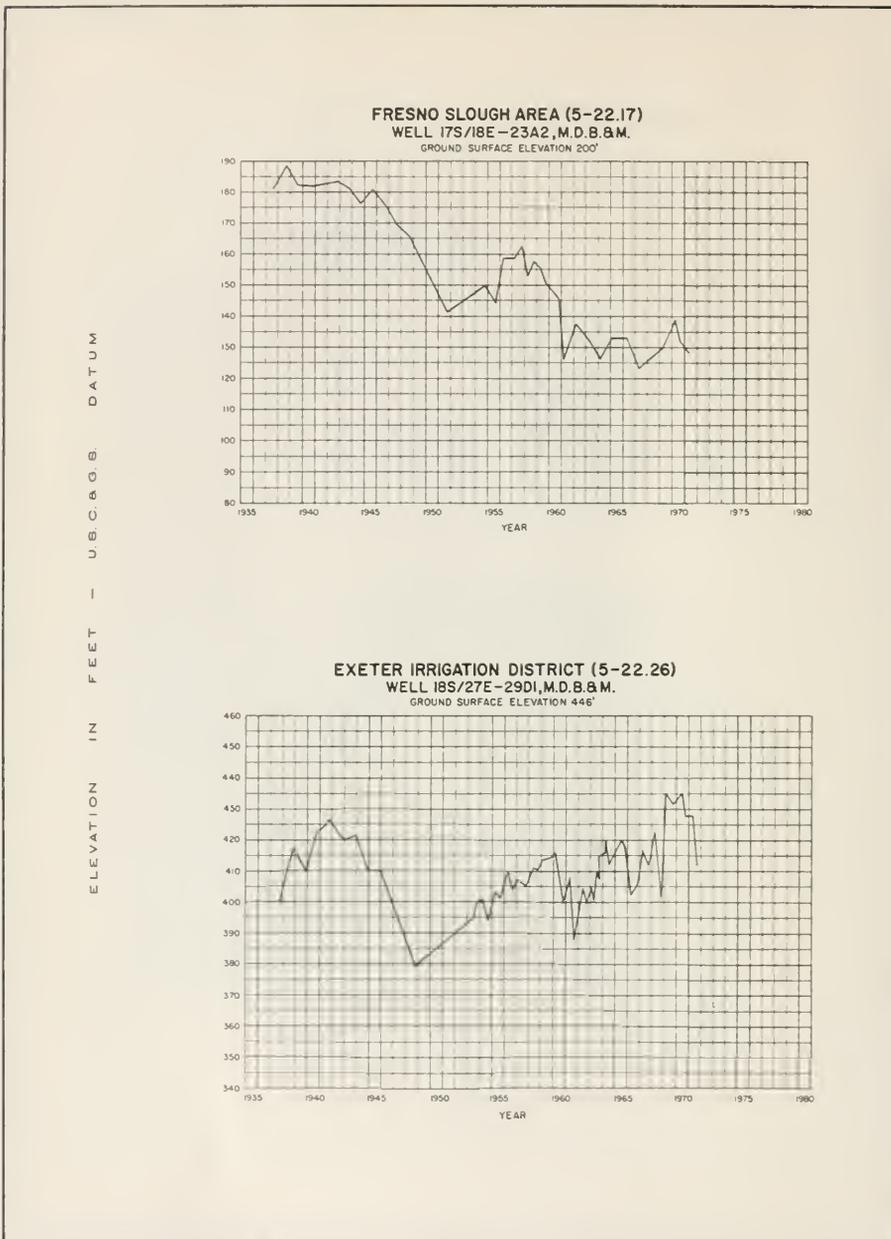
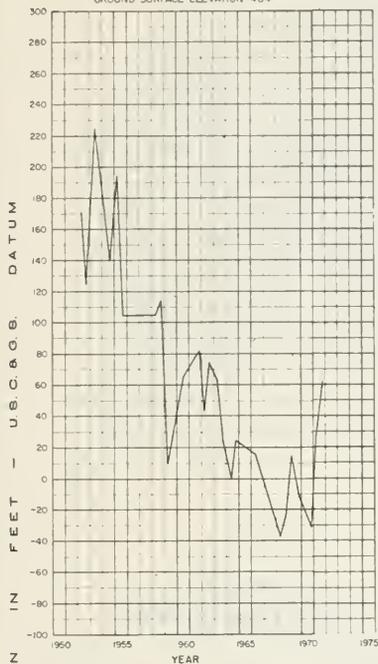
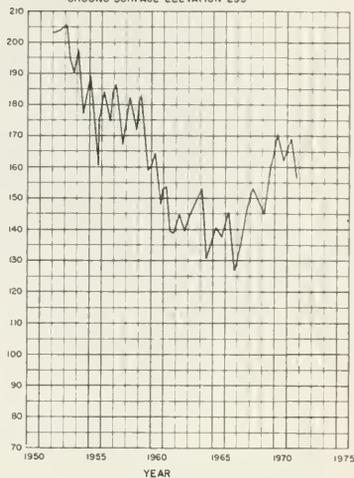


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

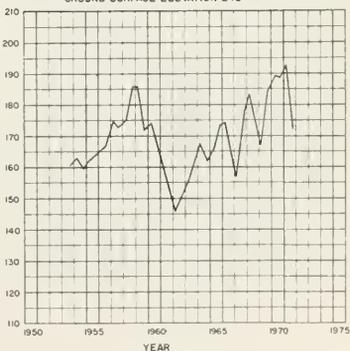
EDISON-MARICOPA AREA (5-22.41)
WELL 11N/21W-1N1, S.B.B. & M.
 GROUND SURFACE ELEVATION 464'



KAWEAH DELTA
WATER CONSERVATION DISTRICT (5-22.24)
WELL 19S/22E-19A2, M.D.B. & M.
 GROUND SURFACE ELEVATION 235'



TULARE IRRIGATION DISTRICT (5-22.25)
WELL 20S/23E-10J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 248'



IVANHOE
IRRIGATION DISTRICT (5-22.23)
WELL 17S/25E-35M1, M.D.B. & M.
 GROUND SURFACE ELEVATION 349'

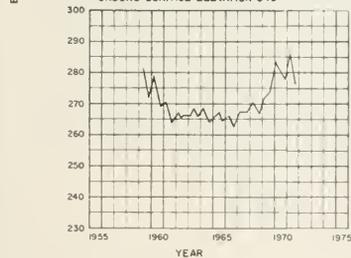
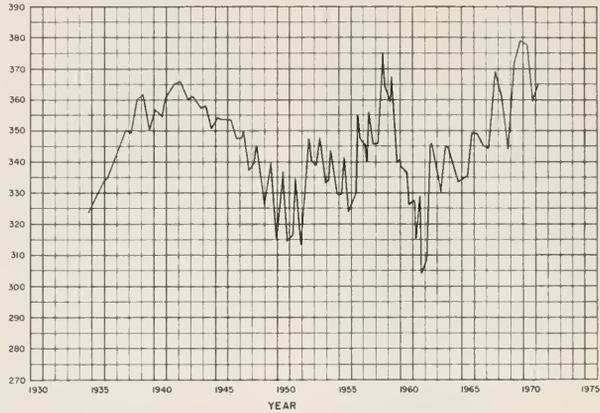


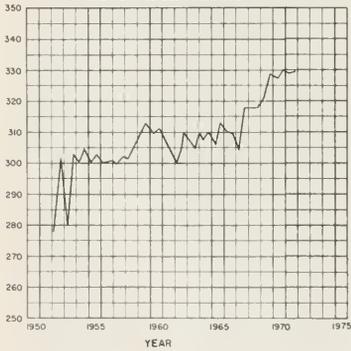
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET DATUM

ALTA IRRIGATION DISTRICT (5-22.19)
WELL 15S/24E-22DI, M.D.B.&M.
 GROUND SURFACE ELEVATION 388'



LINDSAY-STRAITHMORE IRRIGATION DISTRICT (5-22.27)
WELL 20S/27E-6BI, M.D.B.&M.
 GROUND SURFACE ELEVATION 372'



ORANGE COVE IRRIGATION DISTRICT (5-22.21)
WELL 16S/25E-4C2, M.D.B.&M.
 GROUND SURFACE ELEVATION 415'

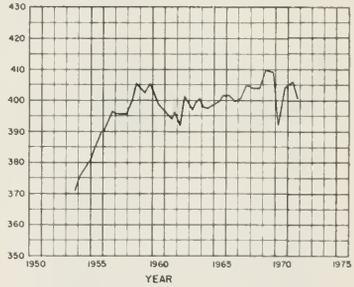


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

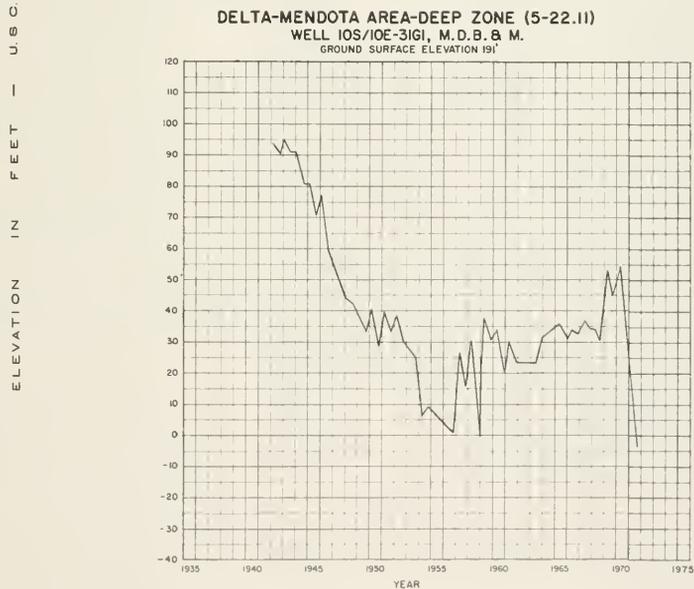
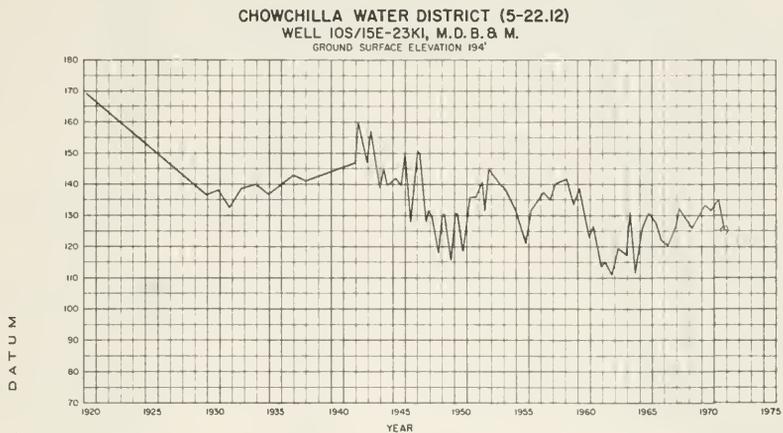


TABLE C-1

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1970 - Spring 1971

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Oakdale Irrigation District	5-22.06		+ 0.1
Modesto Irrigation District	5-22.07		- 0.1
Turlock Irrigation District	5-22.08		+ 0.2
Merced Irrigation District	5-22.09		- 2.6
El Nido Irrigation District	5-22.10		- 3.6
Delta-Mendota Area	5-22.11	305	- 0.1
Chowchilla Water District	5-22.12		- 1.9
Madera Irrigation District	5-22.13		- 4.4
West Chowchilla-Madera Area	5-22.14		- 2.4
Fresno Irrigation District	5-22.15		- 2.6
City of Fresno	5-22.16	57	- 2.5
Fresno Slough Area	5-22.17		- 4.0
Consolidated Irrigation District	5-22.18		- 2.7
Alta Irrigation District	5-22.19		- 6.0
Lower Kings River Area	5-22.20		
Shallow Zone			- 3.9
Deep Zone			+ 3.5
Orange Cove Irrigation District	5-22.21	67	+ 3.2
Stone Corral Irrigation District	5-22.22	11	- 1.6
Ivanhoe Irrigation District	5-22.23		- 0.8
Kaweah-Delta Water Conservation District	5-22.24		- 3.9
Tulare Irrigation District	5-22.25		- 3.0
Exeter Irrigation District	5-22.26		+ 1.5
Lindsay-Strathmore Irrigation District	5-22.27		+ 1.6
Lindmore Irrigation District	5-22.28		+ 1.3
Porterville Irrigation District	5-22.29		- 7.8
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			- 0.1
Deep Zone			- 2.8
Vandalia Irrigation District	5-22.31	5	-13.2
Saucelito Irrigation District	5-22.32		
Shallow Zone			- 6.1
Deep Zone			- 3.6
Pixley Irrigation District	5-22.33		
Shallow Zone			- 2.7
Deep Zone			+ 3.6

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1970 - Spring 1971

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			+ 3.8
Deep Zone			+12.3
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			- 0.4
Deep Zone			- 8.5
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			- 2.6
Deep Zone			- 4.9
North Kern Water Storage District	5-22.37		
Shallow Zone			- 7.5
Deep Zone			+ 6.4
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone			+ 8.0
Deep Zone			+ 5.3
City of Bakersfield	5-22.39	21	- 5.0
Kern River Delta Area	5-22.40		
Shallow Zone			+ 0.2
Deep Zone			- 8.1
Edison-Maricopa Area	5-22.41		
Deep Zone			-11.5
Buena Vista Water Storage District	5-22.42		- 4.7
Semitropic Water Storage District	5-22.43		
Shallow Zone			+ 2.3
Deep Zone			+ 6.2
Avenal-McKittrick Area	5-22.44		No measurements made spring 1971.
Tulare Lake-Lost Hills Area	5-22.45		Insufficient data to compute change.
Corcoran Irrigation District	5-22.46		
Shallow Zone			+ 9.9
Deep Zone			+13.1
Mendota-Huron Area	5-22.47		
Deep Zone			-11.5 ^{b/}
Poso Soil Conservation District	5-22.48		- 1.5
San Luis Canal Company	5-22.49		+ 1.3
Terra Bella Irrigation District	5-22.50	2	+ 4.1
Merced Bottoms	5-22.54		- 0.1
Centerville Bottoms Area	5-22.64		+ 1.3
Garfield Water District	5-22.65	12	+ 3.4

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
 IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
 Spring 1970 - Spring 1971

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			- 5.1
Deep Zone			+ 3.2
Pleasant Valley Area	5-22.69	13	-10.1

- ^{a/} Average changes were determined by planimetry ground water contour maps. Where numbers appear, changes were computed by numerical averages.
^{b/} Average change determined from water level measurements made during December 1970 and December 1971.

TABLE C-2
CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1971
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 1951-71 ^{b/} in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1 ^{c/}	- 14.1
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 15.1
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 7.8
Centerville Bottoms	18.1	-----	+ 1.0	- 3.0
Alta	190.9	Alta Irrigation District	- 17.2 ^{d/}	+ 11.1
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 36.4
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	+ 1.4
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	- 2.7
Tulare	121.1	Tulare Irrigation District	- 59.1	+ 14.1
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 15.0
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 75.0
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 38.9
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	+ 9.2 ^{e/} + 10.2 ^{f/}
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 13.9 ^{e/} - 40.6 ^{f/}
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 22.8 ^{e/} + 18.0 ^{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	+ 7.2 ^{e/} - 20.9 ^{f/}
Rosedale	78.9	-----	- 36.3	- 53.7 - 8.6 ^{g/}
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9 ^{g/}	- 20.2 ^{f/}

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.

b/ Fall 1951 to spring 1971.

c/ Fall 1929 to fall 1951.

d/ Fall 1941 to fall 1951.

e/ Unconfined aquifer, spring 1961 to spring 1971, only one aquifer reported prior to 1961.

f/ Pressure surface, spring 1961 to spring 1971, only one aquifer reported prior to 1961.

g/ Pressure surface, spring 1963 to spring 1971, only one aquifer reported prior to 1963.

* These areas are shown on Plate 2.

TABLE C-3

GROUND WATER LEVELS AT WELLS

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

State Well Number--refer to the explanation under Introduction, page 125.

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

- | | | | |
|---|--|---|--|
| 0 | Unqualified due to lack of well construction and/or geology information. | 4 | Unconfined, outside Corcoran Clay area. |
| 1 | Unconfined, perforated above the Corcoran Clay. | 5 | Confined, aquitard other than Corcoran Clay. |
| 2 | Confined, perforated below the Corcoran Clay. | 6 | Composite, perforated above and below aquitard outside Corcoran Clay area. |
| 3 | Composite, perforated above and below the Corcoran Clay. | | |

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

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

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

Other code symbols used in this column are as follows:

NO MEASUREMENT

- | | | | |
|---|--------------------------|---|--------------------------|
| 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:

<u>Agency Code</u>	<u>Agency</u>	<u>Agency Code</u>	<u>Agency</u>
5000	U. S. Geological Survey	5603	Kaweah Delta Water Conservation District
5001	U. S. Bureau of Reclamation	5605	Exeter Irrigation District
5050	Department of Water Resources	5606	Lindsay-Strathmore Irrigation District
5121	Kern County Water Agency	5607	Lindmore Irrigation District
5129	Kings County Water District	5608	Porterville Irrigation District
5200	City of Fresno	5609	Lower Tule Irrigation District
5520	Oakdale Irrigation District	5611	Saucelito Irrigation District
5521	Modesto Irrigation District	5613	Delano-Earlimart Irrigation District
5524	Turlock Irrigation District	5614	South San Joaquin Municipal Utility District
5525	Merced Irrigation District	5616	Shafter-Wasco Irrigation District
5527	El Nido Irrigation District	5626	Rag Gulch Water District
5528	Chowchilla Water District	5631	Fresno Irrigation District
5529	Poso Soil Conservation District	5636	Consolidated Irrigation District
5530	Madera Irrigation District	5637	Alta Irrigation District
5602	Ivanhoe Irrigation District	5640	Buena Vista Water Storage District
		5644	Arvin-Edison Water Storage District

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	ASSETS	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	ASSETS	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
OAKDALE I D						522nn	TURLOCK I D						522na
015/09E-18J01	0	119.0	12-00-70 03-00-71	41.3 62.5	55.7 56.5	552n	065/09E-16R01	1	80.7	10-02-70 03-02-71	0.1 1.4	60.1 59.6	552a
015/09E-36A01	4	145.0	12-00-70 03-00-71	5.5 52.6	94.5 92.4	5520	065/10E-71A01	1	85.6	10-01-70 03-01-71	2.8 5.3	82.4 80.3	552a
015/10E-19L01	4	146.5	12-00-70 03-00-71	55.2 54.2	91.3 91.3	5520	065/10E-20D01	1	83.4	10-01-70 03-01-71	12.1 10.7	71.5 72.9	552a
015/10E-24J01	4	193.0	12-00-70 03-00-71	86.4 84.4	106.6 109.6	5520	065/11E-06N01	1	106.2	10-01-70 03-01-71	7.5 9.2	94.7 97.0	552a
025/09E-26F01	4	132.0	12-00-70 03-00-71	51.8 51.1	80.2 80.9	5520	065/11E-08R01	1	115.0	10-01-70 03-01-71	6.1 9.8	108.9 105.2	552a
025/10E-04A01	4	185.5	12-00-70 03-00-71	77.8 76.2	107.7 104.3	5520	MERCED I D						52209
025/10E-33J01	4	165.0	12-00-70 03-00-71	58.5 56.4	106.5 108.4	5520	065/12E-22N01	1	150.0	10-05-70 03-03-71	19.9 14.6	131.0 132.2	5050
025/11E-29B01	0	218.0	12-00-70 03-00-71	91.6 89.3	126.4 129.7	5520	065/14E-32N01	1	178.1	10-08-70 03-01-71	4.1 4.6	170.0 169.5	5525
025/11E-31N01	4	192.0	12-00-70 03-00-71	74.5 74.0	117.5 118.0	5520	075/10E-01N01	1	90.7	10-02-70 03-04-71	4.8 4.2	81.9 82.5	5525
025/12E-31X01	4	190.0	12-00-70 03-00-71	41.2 41.5	148.8 146.5	5520	075/11E-13N01	1	106.6	10-06-70 03-03-71	7.5 4.2	99.1 102.4	5525
035/10E-15A01	4	152.0	12-00-70 03-00-71	44.3 43.4	107.7 108.6	5520	075/12E-12001	1	144.0	10-05-70 03-03-71	10.9 12.9	132.6 130.6	5050
035/11E-18001	4	162.0	12-00-70 03-00-71	54.2 54.2	107.8 107.8	5520	075/13E-16A01	1	151.9	10-05-70 03-03-71	16.0 13.2	136.1 138.9	5525
MCCLESSTO I D						52207	075/13E-26001	4	155.8	10-07-70 03-03-71	4.1 11.0	147.4 144.5	5050
025/08E-25P01	4	94.0	10-23-70 11-00-70 03-15-71	36.7 34.3 33.3	57.3 59.7 60.7	5521	075/14E-11N01	4	192.0	10-08-70 03-01-71	11.4 13.0	180.4 178.8	5050
025/09E-31001	4	100.3	11-00-70 03-15-71	29.2 29.4	67.8 67.6	5521	075/14E-16R01	4	197.5	10-08-70 03-01-71	7.5 14.5	180.0 173.0	5525
035/08E-24C02	4	74.0	11-00-70 03-15-71	73.0 16.4	48.0 67.6	5521	085/12E-01001	1	120.2	10-07-70 03-01-71	4.6 7.6	115.5 112.5	5525
035/09E-08D01	4	92.5	11-00-70 03-15-71	24.1 25.5	67.9 66.5	5521	085/13E-09R01	1	135.0	10-07-70 03-02-71	4.7 5.9	130.3 129.1	5525
035/09E-11M01	4	99.0	11-00-70 03-15-71	16.0 16.7	83.0 82.3	5521	085/14E-01A01	4	196.8	10-06-70 03-02-71	4.5 11.0	189.0 186.5	5525
035/10E-06A01	4	133.1	10-23-70 11-00-70 03-15-71	35.8 35.2 33.4	97.3 97.4 90.3	5521	085/14E-10N01	1	172.4	10-06-70 03-02-71	5.3 4.0	167.3 166.6	5050
035/10E-29K01	4	119.2	10-23-70 11-00-70 03-15-71	43.8 43.7 44.7	74.2 74.3 73.3	5521	EL RINDO I D						5221n
035/10E-32001	4	123.0	10-23-70 11-00-70 03-15-71	54.3 54.1 54.4	65.7 65.9 65.6	5521	095/13E-14M01	0	133.0	10-08-70 02-19-71	73.0 72.5	60.0 60.5	5527
045/08E-03F01	1	63.0	11-00-70 03-15-71	16.1 13.3	44.9 46.7	5521	095/14E-20R01	0	152.0	10-08-70 02-19-71	63.0 55.0	89.0 97.0	5527
TURLOCK I D						52208	DELTA-MENDOTA ARF6						52211
045/09E-27J01	1	55.0	10-05-70 03-02-71	7.4 10.0	47.6 45.0	552a	045/06E-06A01	2	193.0	10-23-70 03-19-71	154.5 121.5	36.5 74.5	5050
045/09E-21N01	1	75.0	10-05-70 03-03-71	6.5 7.9	68.5 67.1	552a	045/06E-09R01	1	166.3	10-23-70 03-19-71	124.4 114.6	41.4 51.7	5001
045/10E-27R01	1	109.0	03-03-71	15.1	93.9	552a	045/07E-27M01	1	68.0	11-02-70 03-23-71	23.2 25.6	44.8 47.4	5001
045/11E-31R01	4	128.6	10-02-70 03-02-71	11.0 12.1	117.6 116.5	552a	055/07E-14D01	1	130.4	11-02-70 03-26-71	74.6 76.8	51.8 53.6	5001
055/08E-01A01	1	53.0	10-02-70 03-02-71	4.3 4.9	48.7 48.1	552a	055/07E-23L01	1	138.0	11-02-70 03-26-71	82.0 84.0	56.0 58.0	5050
055/08E-10A01	1	49.7	10-02-70 03-02-71	10.9 12.1	38.8 37.6	552a	055/08E-32K01	1	90.9	11-03-70 03-29-71	7.2 4.3	83.7 84.4	5081
055/09E-14901	1	75.0	10-02-70 03-02-71	6.1 6.5	68.4 68.5	552a	065/08E-27J01	1	114.5	10-04-70 03-09-71	44.8 57.4	59.7 57.1	5050
055/09E-24N01	1	75.0	10-02-70 03-02-71	8.2 9.9	66.8 65.1	552a	085/08E-01N01	1	123.2	10-09-70 03-10-71	14.2 20.9	107.0 102.3	5050
055/09E-28A01	1	63.4	10-02-70 03-02-71	6.1 8.5	57.3 54.9	552a	085/09E-26N01	2	75.0	10-14-70 03-12-71	35.0 15.4	41.0 50.6	5050
055/10E-19R01	1	82.0	10-02-70 03-02-71	4.7 7.8	74.2 75.1	552a	085/09E-24M01	1	75.0	10-14-70 03-12-71	7.3 1.7	67.7 73.3	5050
055/10E-21R01	1	92.0	10-02-70 03-02-71	3.7 6.0	88.3 84.0	552a	085/10E-21L04	2	75.0	10-14-70	NM-5	5050	
055/11E-21N01	1	125.0	10-01-70 03-01-71	7.8 11.6	117.2 116.3	552a	095/09E-23L01	2	100.0	10-11-70 03-11-71	54.5 4.2	41.5 54.9	5050
055/11E-30A01	1	117.0	03-01-71	12.3	104.7	552a	095/10E-19R01	3	84.0	10-13-70	2.7	81.3	5050
055/11E-31N01	1	115.5	10-01-70 03-01-71	4.1 7.0	111.4 108.5	552a	095/10E-21J01	2	87.4	10-14-70 03-11-71	43.5 33.4	43.5 54.1	5050
							095/11E-14M01	3	91.4	02-29-71	4.9	82.1	5050
							045/11E-29J01	2	90.5	10-15-70	42.6	47.4	5050

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

STATE WELL NUMBER	ASHPER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	ASHPER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
DELTA-MENDOTA AREA						52211	MADERA I D						52213
095/10E-29011	2	90.4	03-09-71	43.3	47.2	5050	125/19E-13011	1	288.0	02-09-71	77.4	201.6	5001
105/09E-76011	4	147.4	10-14-70 03-10-71	7.0 NM-7	140.0	5050	125/19E-21011	1	265.0	10-06-70 02-09-71	88.4 87.4	196.6 195.6	5001
105/09E-08011	4	167.0	10-14-70 03-10-71	78.4 NM-6	88.6	5050	125/19E-21011	1	267.0	10-30-70 02-09-71	67.5 67.8	199.5 199.2	5001
105/10E-22011	1	95.5	10-14-70 03-10-71	19.9 19.3	79.7 80.2	5050	125/19E-28011	4	307.5	10-01-70 02-05-71	89.4 62.5	218.1 225.0	5001
105/10E-27E02	2	101.3	10-13-70 03-10-71	47.4 46.2	53.9 53.1	5050	WEST CHOCOMILLA=MADERA AREA						52214
115/10E-11011	1	157.3	10-09-70 03-11-71	51.1 5.5	106.2 106.8	5050	105/13E-22011	1	119.0	10-07-70 02-10-71	13.8 10.8	105.2 102.2	5001
125/12E-06011	0	144.0	10-09-70 03-08-71	5.9 6.7	138.1 137.3	5001	105/14E-09011	2	147.0	11-23-70 02-10-71	89.5 64.3	57.1 82.7	5001
125/12E-25011	1	177.0	10-12-70 03-08-71	54.3 57.6	118.7 119.4	5001	105/14E-31011	1	130.0	10-07-70 02-10-71	31.7 28.0	98.3 102.0	5001
125/12E-25012	1	177.0	10-12-70 03-08-71	7.3 5.8	169.7 170.2	5001	105/14E-35011	1	151.0	10-14-70 02-10-71	74.2 62.1	76.8 88.9	5001
CHOCOMILLA M D						52212	115/14E-13011	0	150.0	10-09-70 02-17-71	60.2 32.5	69.8 117.5	5001
095/14E-26011	1	185.0	11-19-70 02-12-71	62.9 60.0	122.1 125.0	5001	115/15E-33E01	0	158.0	02-10-71	45.7	110.3	5001
095/15E-25012	4	230.0	11-17-70 02-12-71	41.5 36.2	188.5 193.8	5001	115/15E-33011	1	158.0	10-03-70 02-10-71	90.9 50.3	87.1 100.7	5001
095/16E-22011	4	267.0	11-16-70 02-14-71	104.2 47.9	158.8 219.1	5001	125/15E-14L01	1	165.1	10-03-70 02-13-71	50.3 44.5	116.7 117.5	5001
095/17E-19011	4	292.0	11-17-70	101.5	190.5	5526	135/16E-02011	1	199.0	10-30-70 02-03-71	78.3 59.3	135.7 134.7	5001
095/17E-15011	1	320.0	10-12-70 02-10-71	84.8 84.7	229.7 229.8	5001	FRESNO I D						52215
095/18E-33011	1	365.0	10-12-70	52.6	309.4	5001	125/20E-14011	4	265.0	10-01-70 02-08-71	93.0 82.2	272.0 272.8	5001
105/14E-01011	0	175.0	10-07-70 11-24-70 02-18-71	77.6 69.4 63.7	101.4 109.6 115.3	5001	125/21E-74011	1	387.7	10-03-70 02-28-71	40.7 41.4	347.0 346.3	5631
105/14E-01020	0	177.0	11-24-70 02-18-71	61.2 60.2	115.8 116.8	5528	125/22E-21E01	4	473.0	10-02-70 02-08-71	23.3 16.7	449.7 456.3	5001
105/14E-24011	0	167.0	10-14-70 11-20-70 02-10-71 02-16-71	71.6 69.2 64.7 64.0	95.4 97.8 98.3 103.0	5001	135/17E-22011	1	220.8	10-01-70 02-28-71	30.7 37.5	190.1 183.3	5631
105/15E-02011	0	212.5	10-14-70 11-24-70 02-15-71	97.6 78.5 75.5	114.9 134.0 137.0	5001	135/17E-33011	1	211.0	09-29-70 02-05-71	53.0 52.8	158.0 158.2	5001
105/15E-23011	0	195.5	11-20-70 02-17-71	63.2 60.6	132.3 134.9	5001	135/18E-10011	4	258.0	09-30-70 02-05-71	49.6 52.2	208.4 205.8	5001
105/15E-27003	1	184.0	11-19-70 02-16-71	67.3 59.5	116.7 125.5	5001	135/18E-14011	4	253.0	09-30-70	46.9	206.1	5001
105/16E-19E01	4	232.0	11-24-70 02-16-71	79.7 71.5	156.3 160.5	5001	135/19E-74011	4	245.0	09-30-70 02-05-71	51.2 53.0	193.8 192.0	5001
105/16E-29011	1	209.5	11-16-70 02-19-71	74.0 69.1	136.0 138.9	5001	135/19E-92011	4	289.2	10-01-70 02-05-71	62.2 68.3	226.0 221.7	5001
MADERA I D						52213	135/19E-14011	4	299.4	09-30-70 02-05-71	74.5 73.6	215.5 216.2	5001
105/18E-28011	1	326.0	10-13-70 02-16-71	NM-5 NM-6		5001	135/20E-21011	4	339.0	10-01-70 02-28-71	42.9 93.0	243.8 243.7	5631
105/19E-14011	1	387.0	10-13-70 02-14-71	14.0 22.8	371.0 367.7	5001	135/21E-31011	4	406.5	10-01-70 02-26-71	25.2 27.6	381.3 378.9	5631
115/16E-26011	1	194.0	10-30-70 02-08-71	64.7 58.4	129.3 137.6	5001	145/18E-09011	4	227.4	10-01-70	NM-1		5631
115/16E-12011	2	204.0	10-30-70 02-08-71	63.9 61.5	140.1 142.5	5001	145/19E-20012	4	245.0	10-01-70 02-25-71	47.4 47.8	199.8 199.4	5631
115/17E-27E01	4	250.0	10-07-70 02-11-71	72.7 71.3	177.3 176.7	5001	145/20E-26011	4	275.4	10-31-70 02-25-71	64.4 61.1	218.3 214.5	5631
115/18E-29011	4	272.4	10-05-70 02-08-71	89.2 71.2	187.3 202.3	5001	155/20E-13E02	4	282.5	10-01-70 02-24-71	NM-1 30.0		5631
115/18E-27011	4	284.0	10-03-70 02-09-71	79.2 80.7	204.8 203.3	5001	CITY OF FRESNO						52216
125/16E-23011	1	205.0	10-07-70 02-09-71	91.6 64.9	113.4 140.1	4001	135/20E-21011	4	310.0	10-05-70 04-00-71	101.2 95.6	211.2 216.8	5200
125/17E-15011	1	233.0	10-03-70 02-09-71	11.2 75.3	144.8 154.7	5001	135/20E-23011	4	325.0	10-05-70 04-00-71	95.3 91.1	229.7 233.9	5200
125/17E-03011	1	229.0	09-19-71	59.5	169.5	4001	135/20E-24011	4	299.3	10-05-70 04-00-71	95.0 96.2	209.3 213.1	5200
125/17E-28011	1	235.6	10-30-70 02-09-71	56.4 34.9	178.6 179.1	5001	135/20E-25011	4	305.3	10-05-70 04-00-71	88.0 86.5	217.3 218.8	5200
125/17E-34011	1	234.0	10-30-70 02-09-71	59.3 44.9	174.7 189.1	5001	145/20E-01011	4	291.4	10-05-70 04-00-71	81.5 72.0	204.9 218.6	5200
125/14E-13011	1	288.7	10-30-70	76.2	211.8	5001	FRESNO SLOUGH AREA						52217
							135/19E-29011	1	162.7	09-28-70	57.9	109.1	5001
							145/14E-29012	1	163.9	10-09-70	35.4	124.8	5001

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

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
FRESNO SLOUGH AREA						52217	LOWER KINGS RIVER AREA						52220
145/15E-25A02	1	160.0	02-05-71	22.9	137.1	5001	185/19E-75J02	3	211.0	10-21-70 03-02-71	152.0 186.0	54.0 50.0	5050
145/16E-23C01	0	177.0	10-05-70 02-04-71	67.5 64.8	109.5 112.2	5001	145/20E-13A01	1	230.0	10-19-70 03-01-71	4.0 4.0	222.0 221.0	5050
145/16E-08D01	1	165.0	02-05-71	49.2	115.8	5001	185/21E-10H01	1	254.0	10-03-70 02-18-71	64.0 57.0	140.0 196.4	5050
145/16E-23A01	1	163.0	10-05-70 02-05-71	30.0 26.7	133.0 137.3	5001	195/19E-25A01	1	200.0	10-19-70 03-01-71	3.5 1.5	204.5 206.5	5050
145/17E-23A21	4	211.0	10-01-70 02-08-71	102.7 96.2	107.3 119.8	5001	205/22E-19M02	0	211.0	03-03-71	14.5	144.5	5050
155/16E-12C03	2	169.5	10-02-70 02-02-71	32.0 32.6	137.5 136.9	5001	ORANGE COVE I D						52221
155/17E-22R01	1	187.0	09-30-70 02-09-71	114.0 118.8	67.0 68.2	5001	145/24E-29C02	4	430.5	10-05-70 02-02-71	42.5 35.1	388.0 395.4	5001
155/18E-07A02	0	204.0	09-28-70 02-09-71	116.5 104.9	85.5 97.1	5001	145/25E-30D01	4	510.0	09-25-70 02-02-71	21.6 14.7	488.4 490.3	5001
155/18E-16G01	4	205.8	09-29-70	115.1	90.9	5001	155/24E-14D01	4	405.0	10-02-70	14.2	388.8	5001
165/18E-27C01	1	198.0	10-19-70 03-01-71	121.5 117.0	76.5 81.5	5050	165/24E-14C02	4	415.0	10-07-70 02-02-71	10.8 4.5	404.2 405.5	5001
165/19E-34P01	0	220.0	03-01-71	101.0	119.0	5050	STONE CORRAL I D						52222
175/18E-23A02	1	200.0	10-19-70 03-01-71	67.5 71.5	132.0 128.0	5050	175/25E-01D01	4	355.0	09-28-70 09-30-70 01-29-71 03-02-71	26.3 21.8 22.0 14.7	328.7 333.2 333.0 336.3	5001
CONSOLIDATED I D						52218	175/26E-07R01	4	364.0	09-28-70 02-02-71	8.1 4.5	355.9 359.5	5001
145/22E-22A01	4	355.7	10-02-70 03-00-71	22.5 23.9	333.2 331.7	5636	IVANHOE I D						52223
155/19E-24A01	4	246.6	10-02-70 03-00-71	77.4 73.6	168.7 172.9	5636	175/25E-27R01	4	350.0	10-01-70 02-01-71	82.3 75.1	267.7 274.9	5001
155/20E-28A01	4	264.8	10-02-70 03-00-71	47.5 47.0	217.3 217.7	5636	175/25E-35M01	4	349.0	10-01-70 02-01-71	72.4 63.5	276.6 285.5	5001
155/21E-15D01	4	301.2	10-02-70 03-01-71	23.0 22.9	278.2 278.2	5636	175/25E-36A01	4	365.0	02-01-71	68.5	304.5	5001
155/22E-16A01	4	337.0	10-02-70 03-01-71	19.5 21.4	317.5 315.6	5636	175/26E-32N01	4	385.0	10-01-70 02-01-71	56.1 54.0	326.9 331.0	5001
155/22E-29D01	4	321.9	10-02-70 03-01-71	22.0 24.6	299.9 297.2	5636	175/26E-34D01	4	416.0	10-01-70 02-01-71	53.9 50.8	362.1 365.2	5001
165/19E-14A01	4	235.5	10-02-70 03-01-71	92.7 89.6	142.8 145.8	5636	KAWAHE DELTA = C D						52224
165/20E-22N01	4	247.7	10-02-70 03-01-71	54.8 55.5	193.4 192.7	5636	175/25E-14P01	0	340.0	01-29-71	86.6	259.4	5001
165/21E-22N01	4	271.0	10-02-70 03-01-71	40.6 39.4	230.4 231.5	5636	175/26E-17P02	4	385.0	09-28-70 02-02-71	7.7 11.7	377.3 373.3	5001
165/22E-23R01	4	297.5	10-02-70 03-01-71	21.1 21.2	276.4 276.2	5636	175/27E-34P01	4	473.0	09-28-70 02-01-71	15.6 11.8	458.4 458.2	5001
175/22E-01C01	4	286.0	10-02-70 03-01-71	14.7 20.1	265.3 263.8	5636	185/22E-29A01	1	251.0	09-25-70 10-24-70 01-29-71	91.1 81.4 80.9	189.9 183.8 170.1	5001
ALTA I D						52219	185/23E-10H01	2	282.5	10-05-70 01-25-71 06-07-71	57.3 43.5 50.5	225.2 234.0 232.0	5001
145/23E-36R01	4	391.0	10-02-70	46.4	344.6	5637	185/24E-34A01	0	271.0	10-24-70 02-22-71	96.8 96.8	174.2 172.2	5001
145/24E-31P01	4	395.0	10-02-70 03-03-71	41.5 46.1	353.5 348.9	5001	185/24E-26A01	4	312.5	10-02-70 01-29-71	63.2 41.0	248.8 264.0	5001
155/23E-23A02	4	350.0	10-02-70 03-03-71	43.0 42.1	315.0 315.9	5637	185/25E-17D01	4	363.0	09-28-70 01-29-71	42.5 37.5	320.5 325.5	5001
155/24E-22R01	4	388.0	10-03-70 03-04-71	29.7 22.6	358.3 365.4	5637	185/25E-31F01	4	378.0	09-28-70 02-01-71	34.5 34.0	303.5 304.0	5001
165/23E-23E01	4	314.0	10-01-70 03-03-71	17.1 19.4	296.9 294.6	5637	145/26E-27E01	4	390.0	09-28-70 02-01-71	19.3 13.3	370.7 376.7	5001
165/24E-21J01	4	336.0	09-30-70 03-01-71	20.0 21.6	316.0 314.4	5637	185/26E-30N01	4	367.0	09-29-70 01-25-71	20.9 14.5	346.1 344.5	5001
165/25E-29A01	4	364.0	10-01-70	34.9	241.1	5637	195/22E-01N02	1	245.0	02-02-71	5.5	189.5	5001
175/22E-25A01	4	276.0	10-25-70 03-02-71	31.2 30.3	243.8 245.7	5637	195/22E-36E01	1	234.0	10-04-70 02-15-71	73.4 95.5	160.6 144.5	5001
175/22E-25J01	4	275.0	10-01-70 10-25-70 03-02-71	34.6 31.1 31.0	240.4 241.9 244.0	5637	195/25E-17K01	3	320.0	09-26-70 01-25-71	39.5 31.2	205.5 208.8	5001
175/24E-14A03	4	302.0	09-25-70 01-29-71	38.5 14.2	263.5 268.8	5001	195/24E-34R02	0	341.0	09-25-70 01-28-71	77.4 63.5	263.4 277.5	5001
175/25E-18C01	4	335.0	09-30-70 03-02-71	29.6 24.5	305.4 308.5	5637	205/22E-18C01	1	226.0	10-04-70 01-24-71	84.7 84.0	134.3 141.0	5001
175/25E-18R01	4	321.0	09-30-70 03-02-71	53.7 40.5	267.3 271.5	5637	TULARE I D						52225
LOWER KINGS RIVER AREA						52220	195/23E-14R01	1	270.0	09-30-70 11-01-70 02-12-71	74.5 88.0 63.7	194.5 202.0 205.3	5001
175/27E-20D01	1	223.0	03-02-71	74.0	153.5	5050	195/23E-32H01	1	250.5	09-30-70	49.2	165.3	5001
175/21E-11K01	0	257.0	03-02-71	39.0	227.0	5050							

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

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
TULARE I D						52225	LOWER TULE RIVER I D						52230
195/23E-12H01	M	1 250.5	02-12-71	71.2	179.3	5001	215/25E-19H01	M	3 285.0	02-17-71	56.2	229.8	5001
195/24E-14P01	M	1 290.0	10-01-70 02-12-71	80.9 87.1	209.1 222.9	5001	215/26E-16G07	M	2 122.0	10-29-70 02-01-71	65.0 36.0	257.5 286.0	5001
195/24E-27F01	M	1 290.0	10-02-70 02-13-71	92.3 71.3	197.7 218.7	5001	215/26E-10E01	M	4 350.0	10-29-70 02-01-71	30.2 37.9	310.8 312.1	5001
195/25E-17J07	M	0 128.0	10-09-70 02-23-71	38.3 35.8	289.7 292.2	5001	225/24E-09H01	M	1 245.0	10-29-70 02-01-71	116.3 107.7	128.7 137.3	5001
205/23E-08R07	M	1 241.0	10-18-70 02-17-71	84.0 78.5	157.0 162.5	5001	225/24E-15H01	M	1 251.5	10-01-70 02-01-71	136.4 126.1	116.6 126.9	5001
205/24E-16H01	M	1 273.0	10-03-70 02-20-71	97.8 70.5	180.2 199.5	5001	225/25E-10E01	M	1 296.0	10-29-70 02-01-71	87.4 97.3	208.8 198.7	5001
205/24E-19J07	M	0 250.0	10-03-70 02-20-71	86.8 87.5	163.2 162.5	5001	225/25E-16H01	M	1 300.5	10-07-70 01-29-71	129.2 132.3	173.8 176.7	5001
215/23E-05R01	M	1 222.0	10-07-70	89.5	152.5	5001	225/26E-08H01	M	1 337.0	09-21-70 01-25-71	109.0 103.5	228.0 233.5	5001
EXETER I D						52226	VANDALIA I D						52231
185/26E-25K01	M	4 436.0	09-23-70 01-27-71	44.6 47.3	391.4 393.7	5001	225/28E-07G01	M	4 524.0	01-28-71	134.9	369.1	5001
185/26E-34P02	M	4 391.0	09-23-70 01-27-71	44.9 44.3	341.1 346.7	5001	225/29E-17N01	M	4 577.0	09-25-70 01-29-71	175.4 150.4	401.6 426.6	5001
185/27E-09O01	M	4 447.0	10-01-70 01-27-71	20.0 19.7	427.0 427.3	5001	225/28E-18H01	M	4 535.0	09-25-70 01-29-71	122.5 129.1	412.5 405.9	5001
195/26E-14P01	M	4 375.0	09-24-70 01-29-71	71.0 67.1	304.8 306.3	5001	SAUCILITO I D						52232
195/26E-23E01	M	4 359.0	09-24-70 01-29-71	74.9 67.0	286.6 292.5	5001	225/26E-15J01	M	4 371.0	09-21-70 09-24-70 01-25-71	129.5 140.6 126.5	241.5 230.4 244.5	5001
LINDSAY-STRAITHMORE I D						52227	PIKLEY I D						52233
205/27E-16H01	M	4 426.0	09-22-70 09-25-70 01-29-71	43.2 42.5 44.4	326.8 329.5 327.6	5001	235/26E-02R01	M	4 397.0	10-23-70 01-25-71	151.0 144.5	245.0 251.5	5001
205/27E-18H01	M	4 426.0	09-22-70 01-28-71	24.6 23.7	401.4 402.3	5001	235/26E-03R01	M	4 381.0	09-23-70 01-28-71	174.0 170.5	287.0 210.5	5001
205/27E-21F01	M	4 414.0	10-22-70 01-24-71	21.4 20.2	384.6 385.8	5001	225/25E-25N01	M	2 310.0	09-24-70	213.1	96.9	5001
205/27E-29J01	M	4 406.0	01-29-71	23.5	382.5	5001	235/23E-02R01	M	1 207.0	09-24-70 01-29-71	35.4 35.9	171.6 171.1	5001
215/27E-01A01	M	4 460.0	09-25-70	23.3	436.7	5001	235/24E-14R01	M	3 222.0	09-24-70 11-19-70 01-27-71	132.6 129.0 122.4	89.4 93.0 99.6	5001
LINDHOLME I D						52228	ALPABUGH-ALLENESWORTH AREA						52234
205/26E-01P01	M	4 360.0	09-21-70	76.9	283.1	5001	235/25E-14C01	M	1 300.0	09-23-70 01-28-71	56.6 52.8	243.4 247.2	5001
205/26E-22C02	M	4 341.0	09-22-70 01-26-71	94.8 94.0	246.2 243.0	5001	235/25E-14N04	M	2 263.0	12-15-70	79.9	183.1	5001
205/26E-24K01	M	4 362.5	01-29-71	34.9	327.6	5001	235/26E-08R01	M	4 345.0	09-23-70 01-28-71	181.5 186.8	163.5 178.2	5001
205/26E-32A01	M	4 331.5	09-24-70 01-27-71 01-28-71	97.7 85.0 87.0	233.8 246.5 249.5	5001	52235						
205/27E-29F01	M	4 392.0	09-21-70 01-28-71	24.0 27.2	364.0 356.8	5001	235/24E-35A02	M	2 235.0	09-24-70 11-18-70 01-28-71	201.0 189.0 144.9	34.0 67.0 90.1	5001
PORTERVILLE I D						52229	245/23E-05R02	M	2 210.0	09-22-70 10-29-70 01-25-71	296.0 287.0 194.6	88.0 77.0 15.4	5001
215/26E-12H01	M	4 372.0	09-24-70 01-27-71	36.7 31.1	435.3 340.9	5008	245/23E-21B02	M	1 205.0	09-22-70 01-25-71	74.8 68.2	130.2 136.8	5001
215/27E-21C01	M	4 409.0	09-29-70 01-28-71	22.2 19.3	386.8 390.7	5001	245/23E-34R01	M	3 206.0	09-22-70 01-25-71	248.7 207.7	43.7 2.7	5001
215/27E-29E01	M	4 420.0	09-24-70 01-27-71	20.1 17.1	404.9 402.9	5001	245/24E-29R01	M	0 218.0	01-27-71	104.0	110.0	5001
225/27E-01J01	M	4 395.0	09-25-70 01-27-71	74.3 71.0	316.7 324.0	5008	245/24E-22R01	M	0 233.0	09-23-70 01-27-71	225.7 145.8	7.3 87.2	5001
225/27E-09K01	M	4 397.0	09-24-70 01-27-71	52.3 50.5	344.7 346.5	5008	245/24E-34F01	M	1 232.0	09-23-70 11-06-70 01-25-71	49.2 92.0 87.0	132.8 140.0 145.0	5001
225/27E-10H01	M	4 455.0	09-24-70 01-27-71	74.9 60.0	378.1 389.0	5008	245/25E-17P01	M	1 288.0	01-26-71	90.9	176.6	5001
225/27E-10R01	M	4 467.0	09-24-70 01-27-71	115.0 109.6	352.0 361.4	5001	DELANO-EARLHART I D						52235
LOWER TULE RIVER I D						52230	235/25E-27J02	M	4 296.0	09-24-70 01-28-71	41.0 85.0	205.0 211.0	5001
215/23E-29J01	M	4 221.5	10-09-70 01-22-71	62.0 62.0	158.5 180.5	5001	235/26E-28P01	M	4 356.5	09-25-70 01-24-71	175.5 162.5	181.5 194.5	5001
215/24E-15H01	M	1 253.0	02-17-71	37.0	216.0	5001	235/27E-27G01	M	4 552.0	01-25-71	335.7	216.3	5001
215/24E-31F01	M	2 230.0	10-29-70 02-01-71	63.8 63.6	166.2 166.4	5001	245/25E-07H01	M	1 321.0	09-23-70 11-12-70 01-27-71	106.7 101.5 92.0	220.3 218.5 229.0	5001
215/24E-35M01	M	2 291.0	10-29-70 02-01-71	87.0 70.8	171.0 175.2	5001	245/25E-14R01	M	3 304.0	09-23-70 01-28-71	132.5 107.5	171.4 196.5	5001
215/25E-29H01	M	3 284.0	10-06-70 11-17-70	101.0 67.7	185.0 214.0	5001	245/25E-13J01	M	1 291.4	09-23-70	54.7	232.3	5001

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

STATE WELL NUMBER	AQUIFER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
DELANO-EARLEHART 1 0						52235	EDISON-MARICOPA AREA						52241
245/25E-13J01	M	1 291.5	01-28-71	44.9	242.1	5001	295/29E-13A01	M	4 578.0	01-20-71	435.6	142.4	5844
245/26E-05R01	M	4 376.0	09-23-70 01-26-71	165.0 155.0	211.0 220.0	5001	305/29E-07R01	M	1 410.0	09-22-70 01-26-71	221.6 221.9	189.4 195.1	5001
245/26E-20M01	M	4 378.0	09-23-70 01-27-71	144.0 128.0	229.0 250.0	5001	305/28E-10M01	M	2 172.0	09-21-70 01-27-71	51.0 50.6	322.0 322.4	5000
245/26E-24R02	M	4 400.0	09-23-70 01-27-71	144.0 128.0	257.0 275.0	5000	305/27E-10M01	M	0 172.0	09-21-70 01-27-71	193.2 179.4	174.8 193.1	5000
245/26E-32R01	M	4 396.0	09-23-70 01-27-71	116.0 104.0	279.0 289.0	5001	305/29E-05F01	M	4 515.0	01-20-71	344.7	170.3	5644
245/26E-14F01	M	4 445.0	12-15-70	216.7	228.3	5000	305/29E-29A01	M	4 428.6	09-18-70 01-29-71	482.3 474.4	145.7 148.6	5844
245/26E-10R03	M	4 430.0	09-21-70 01-26-71	194.5 180.5	231.5 249.5	5001	305/30E-20R01	M	4 791.5	01-21-71	200.2	593.8	5844
255/27E-16R01	M	2 388.0	09-22-70 01-27-71	74.7 79.6	313.3 308.4	5000	315/27E-25A01	M	1 400.0	09-21-70 01-25-71	161.7 141.7	238.3 258.3	5001
255/27E-22M01	M	4 750.0	09-22-70 11-06-70 01-26-71	444.0 457.0 484.5	301.0 300.0 303.5	5001	325/28E-23R01	M	0 186.7	10-02-70 02-05-71	293.6 271.4	92.4 115.6	5844
SOUTHERN SAN JOAQUIN #40						52236	325/29E-19M02	M	1 418.0	09-21-70 02-12-71	204.4 201.6	211.6 214.4	5000
255/25E-36R02	M	2 335.0	09-29-70 01-27-71	205.4 167.9	129.6 167.1	5001	325/27E-19M03	M	3 416.0	09-21-70 02-09-71	327.5 300.0	88.5 116.0	5000
255/26E-28M02	M	4 414.0	09-25-70 01-27-71	173.5 160.9	241.5 254.1	5001	RUEK VISTA # 5 0						52242
255/26E-16R01	M	4 443.0	09-28-70 01-27-71	304.0 291.4	139.0 151.6	5001	275/22E-21F02	M	1 240.0	09-23-70 02-02-71	14.0 13.0	228.0 227.0	5121
NORTH KEARN # 5 0						52237	285/22E-09D01	M	3 740.0	01-26-71	11.5	228.5	5000
265/25E-15R01	M	3 346.7	09-29-70 02-16-71	218.0 198.0	128.3 178.7	5000	285/23E-31R01	M	1 257.8	10-02-70 02-01-71	35.9 24.8	221.9 229.0	5640
265/26E-30R01	M	4 392.0	09-30-70	241.0	158.5	5700	295/23E-08A01	M	1 780.3	10-02-70 02-01-71	24.2 31.7	232.0 227.3	5640
275/25E-01N01	M	3 394.0	09-30-70 02-05-71	88.2 88.0	305.8 198.0	5000	295/23E-25J01	M	0 275.0	07-28-71	96.5	178.5	5058
275/25E-01N02	M	2 394.0	09-30-70 02-05-71	277.0 244.0	117.0 150.0	5000	305/23E-01D01	M	0 276.0	10-03-70 02-01-71	55.7 54.4	221.1 221.4	5640
275/27E-10M02	M	4 527.0	09-23-70	448.2	76.8	5001	305/24E-07C01	M	1 287.0	10-05-70 02-01-71	90.0 88.8	198.7 198.9	5640
285/26E-21M01	M	4 388.0	09-30-70 02-02-71	181.5 164.0	228.5 220.0	5000	305/24E-04E01	M	2 782.0	09-17-70 01-22-71	72.0 78.5	210.0 183.5	5000
285/26E-21M03	M	5 388.0	02-02-71	227.0	161.0	5000	315/25E-27F01	M	1 783.0	09-15-70	56.4	223.6	5000
SHAFTER-#BECO 1 0						52238	SEMITROPIC # 5 0						52243
275/24E-01L02	M	2 322.0	09-28-70 01-25-71	258.5 189.5	63.5 132.5	5000	255/22E-02M02	M	1 212.0	09-22-70 02-03-71	74.4 90.4	135.6 121.6	5000
275/25E-29A01	M	1 375.0	02-05-71	231.0	144.0	5000	255/22E-14G01	M	1 215.0	09-22-70 02-03-71	251.0 174.0	36.0 37.0	5121
285/25E-16R01	M	1 329.0	09-22-70	209.5	119.5	5000	255/23E-28R01	M	1 217.0	09-22-70 02-02-71	104.0 99.5	107.0 117.5	5000
KEARN RIVER DELTA AREA						52240	255/24E-10A01	M	1 240.0	09-21-70 01-26-71	58.7 59.5	181.3 180.5	5001
285/26E-29L01	M	6 349.0	09-24-70 09-30-70	160.1 154.0	189.9 192.0	5700	255/24E-15M01	M	2 248.0	09-22-70 01-27-71	83.3 80.2	164.7 167.8	5000
295/25E-12M03	M	2 330.0	09-18-70 01-22-71	169.3 156.5	160.7 173.5	5000	255/24E-10M01	M	1 237.4	09-21-70	27.4	35.4	5001
305/25E-17E01	M	1 300.6	10-05-70	NM-2		5840	265/21E-14J01	M	1 277.0	02-03-71	27.5	209.5	5121
305/25E-22D01	M	1 308.5	10-05-70 02-01-71	53.0 51.9	255.5 254.6	5440	265/24E-23M01	M	2 295.5	09-29-70 02-05-71	NM-1 178.0		5700
305/26E-22P02	M	1 338.0	09-17-70	96.5	239.5	5000	275/22E-01R01	M	1 287.0	09-21-70 02-01-71	90.0 96.5	171.0 170.5	5000
305/26E-32R01	M	1 354.4	09-22-70 01-26-71	104.0 102.5	244.0 250.5	5001	275/23E-01R04	M	2 287.0	09-21-70 02-01-71	272.5 211.5	5.5 55.5	5000
315/26E-35D01	M	1 294.5	01-19-71	NM-6		5121	275/23E-01R05	M	2 287.0	09-21-70 02-01-71	270.5 204.5	3.5 62.5	5000
315/27E-24J01	M	1 312.1	09-15-70 01-19-71	72.5 74.5	239.6 233.6	5121	275/23E-04L01	M	0 258.0	09-21-70 02-01-71	30.5 30.0	227.4 228.0	5121
325/27E-17E01	M	1 292.6	09-22-70 01-24-71	112.3	179.3	5700	285/23E-11E01	M	1 255.0	10-02-70 02-01-71	34.6 31.3	216.4 221.7	5840
325/28E-04R01	M	0 301.0	09-21-70 01-25-71	60.2 45.0	240.8 256.0	5001	295/24E-14M01	M	1 290.0	01-22-71	57.0	235.0	5121
EDISON-MARICOPA AREA						52241	AVENAL-#CATTIE# AREA						52244
11N/18E-14M01	S	1 726.0	10-02-70	508.6	217.4	5644	235/19E-20M01	M	4 297.0	07-26-71	66.0	194.0	5050
11N/19E-04M01	S	1 575.9	10-16-70	432.7	143.3	5644	255/27E-04C01	M	1 286.0	07-27-71	61.0	208.0	5121
11N/20E-07D01	S	1 452.3	09-22-70 01-24-71	NM-3 326.9	125.4	5700	265/19E-19M02	M	4 875.0	02-06-71	162.0	113.0	5121
11N/20E-24A01	S	1 730.2	09-22-70 01-24-71	586.7 583.7	143.6 146.6	5700	295/22E-29M01	M	1 290.0	07-28-71	67.5	222.4	5050
11N/21E-05M01	S	3 515.9	09-22-70	442.1	73.8	5700	TULARE-LAKE-LUST WELLS AREA						52245
295/29E-13A01	M	4 578.0	09-16-70	447.6	132.4	5844	225/19E-18P02	M	0 255.0	07-28-71	181.0	74.0	5050

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

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
TULARF LAKE-LUST HILLS AREA						52245	MERCER BOTTOMS						52254
225/21E-1101	M	2 185.5	10-20-70	107.0	79.0	5050	045/12E-19001	0	90.0	10-21-70 03-11-71	17.0 11.0	72.2 79.0	5050
235/19E-1401	M	0 235.0	07-25-71	34.7	196.3	5050	095/12E-01010	M	1 110.5	10-19-70 03-15-71	44.5 24.8	66.0 85.2	5050
245/21E-1501	M	1 211.0	10-24-70 03-04-71	15.5 20.5	197.5 190.5	5050	095/14E-06001	M	0 141.0	10-06-70 02-05-71	42.3 41.9	96.7 94.1	5050
245/21E-2401	M	1 210.0	10-21-70 10-28-70 03-04-71	14.0 17.0 15.5	196.0 198.0 194.5	5050	GARFIELD M D						52265
245/22E-3501	M	2 213.0	10-29-70	240.0	- 27.0	5050	125/20E-13401	M	4 388.0	10-06-70 02-10-71	111.4 110.7	276.6 277.3	5001
255/21E-7001	M	1 237.5	07-27-71	36.2	201.3	5050	125/21E-07402	M	4 405.5	10-06-70 02-10-71	119.2 118.3	286.3 287.2	5001
265/21E-2201	M	1 281.0	02-03-71	NM-2		5050	125/21E-19403	M	0 190.5	10-06-70 02-10-71	91.9 91.4	298.6 299.1	5001
CORCORAN I D						52246	KINGS COUNTY M D						52266
205/22E-39401	M	1 216.0	03-03-71	40.5	175.5	5050	175/20E-36402	M	0 243.0	10-03-70 02-18-71	15.7 15.9	227.3 227.1	5129
215/22E-2101	M	2 192.0	10-21-70 03-03-71	97.0 93.0	95.0 99.0	5050	175/22E-1101	M	4 283.0	10-04-70 02-17-71	22.2 21.4	260.8 261.6	5129
215/22E-27401	M	0 196.0	03-03-71	12.0	184.0	5050	175/22E-35401	M	4 266.0	11-03-70 02-16-71	33.6 31.1	232.4 234.9	5129
225/22E-0102	M	1 201.0	10-24-70 03-03-71	8.5 11.5	192.5 189.5	5050	185/21E-17401	M	1 238.0	10-03-70 02-18-71	9.2 10.0	228.8 228.0	5129
225/22E-05401	M	2 188.0	10-20-70 10-28-70 03-03-71	93.0 93.0 90.0	95.0 95.0 98.0	5050	185/22E-2101	M	1 258.0	11-04-70 02-22-71	78.3 71.8	179.7 186.2	5129
225/22E-10401	M	2 192.0	03-03-71	92.6	99.4	5050	185/22E-36401	M	2 245.0	10-04-70 10-05-70 01-25-71	93.2 92.5 96.5	151.8 152.5 148.5	5001
225/22E-1701	M	1 193.0	10-28-70 03-03-71	10.0 11.0	183.0 182.0	5050	185/23E-2401	M	1 263.0	10-03-70 02-22-71	102.8 83.8	160.2 179.2	5129
225/22E-1501	M	2 191.0	03-03-71	90.5	100.5	5050	195/21E-20401	M	1 225.0	10-04-70 02-23-71	9.4 10.4	211.1 214.6	5129
225/22E-2201	M	2 191.0	03-03-71	97.0	96.0	5050	195/22E-0401	M	0 245.0	10-03-70 02-16-71	84.3 73.4	160.7 171.6	5129
HEPOTTA-MUSDON AREA						52247	195/22E-19401	M	2 235.0	10-04-70 02-23-71	102.7 70.5	132.3 164.5	5001
135/12E-0201	M	2 280.0	10-13-70 03-09-71	134.0 121.2	142.0 158.8	5001	195/22E-27401	M	3 240.0	10-06-70 01-24-71	65.5 67.0	175.0 173.5	5129
145/12E-1201	M	2 338.0	12-17-70	504.0	- 170.0	5000	205/21E-03401	M	1 222.0	10-06-70 11-03-70 01-21-71	11.5 11.5 6.0	208.5 208.5 219.4	5001
145/14E-1402	M	2 178.0	10-04-70 12-15-70 02-05-71	209.6 200.0 194.0	- 30.1 - 22.0 - 20.0	5050	205/21E-0901	M	2 219.0	10-04-70 02-15-71	139.0 123.1	80.0 95.9	5129
155/13E-1102	M	2 345.0	12-17-70	522.4	- 177.4	5000	205/22E-10402	M	2 225.0	02-25-71	90.3	134.7	5129
155/14E-1504	M	2 236.0	10-15-70 03-02-71	324.0 330.0	- 88.0 - 94.0	5000	PLEASANT VALLEY						52269
155/14E-1701	M	1 165.0	10-15-70 03-02-71	44.0 44.5	121.0 120.5	5000	205/15E-25001	M	4 319.0	01-14-71	227.0	392.0	5050
155/14E-28404	M	2 169.0	10-15-70 03-02-71	164.1	- 4.8 5.9	5000	205/15E-32401	M	4 675.0	01-14-71	233.0	442.0	5050
165/15E-0202	M	1 219.0	10-04-70	94.3	122.7	5001	215/16E-07401	M	4 834.0	01-14-71	240.0	394.0	5050
165/15E-7404	M	2 334.0	12-17-70	524.3	- 190.3	5000	215/16E-35001	M	4 682.0	01-15-71	330.0	352.0	5050
165/14E-10401	M	1 187.0	10-02-70	133.9	53.1	5001							
175/14E-30403	M	1 290.0	10-15-70 03-02-71	66.5 68.3	225.5 225.7	5000							
175/16E-30404	M	2 302.0	10-15-70 03-02-71	486.0 498.5	- 194.0 - 166.5	5000							
175/17E-20401	M	3 228.0	11-05-71	300.0	- 72.0	5050							
185/18E-15401	M	2 274.0	12-14-70	347.0	- 73.0	5050							
205/17E-72401	M	0 447.0	12-14-70	614.0	- 169.0	5050							
205/18E-46401	M	2 317.0	12-15-70	509.1	- 192.2	5000							
205/18E-11401	M	3 277.0	12-17-70	337.0	- 60.0	5050							
205/18E-11001	M	1 276.0	12-14-70	427.9	- 154.9	5000							
POSP SOIL C D						52248							
105/13E-06401	M	1 110.0	07-17-71	12.3	97.7	5529							
115/13E-0501	M	1 117.0	07-17-71	12.2	114.8	5529							
115/13E-24401	M	1 128.0	07-17-71	15.5	112.5	5529							
115/13E-13101	M	1 126.0	07-17-71	9.4	116.6	5529							
125/13E-13001	M	1 140.0	07-17-71	11.6	128.4	5529							
TERRA BELLA I D						52249							
225/27E-26403	M	0 432.0	09-24-70	104.0	424.3	5001							
235/27E-01401	M	4 404.0	09-24-70 01-20-71	49.0 46.8	421.0 423.2	5001							
235/27E-04403	M	4 450.0	01-25-71	17.9	301.5	5001							
MERCER BOTTOMS						52250							
075/12E-07401	M	0 110.5	03-11-71	7.2	104.3	5050							

APPENDIX D
SURFACE WATER QUALITY

INTRODUCTION

Appendix D summarizes the surface water quality and electrical conductivity data for the San Joaquin Valley for 1971 water year (October 1, 1970 through September 30, 1971). These data were obtained from analyses of water samples from 41 surface water quality sampling stations and 6 electrical conductivity recorders. Water samples are collected by the Department of Water Resources; the U. S. Corps of Engineers; U. S. Forest Service; California Regional Water Quality Control Board, Central Valley Region; and Kern County Department of Parks and Recreation. Electrical conductivity 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 13th Edition of "Standard Methods for the Examination of Water and Waste Water".

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

HYDROGRAPHIC AREA B SAN JOAQUIN RIVER BASIN

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 Tehachap1 Mountains
C7 Tulare Lake Basin on West Side

TABLE D-1
SURVEILLANCE STATION DATA AND INDEX
FOR
SURFACE WATER

	Station Identification Number	Location ^a	Period ^b of Record	Frequency ^c of Sampling	Sampled ^d By	Analysis of Page
Cantua Creek above Highway 33	C77047.30	17S/14E-36			DWR	171, 174
Chowchilla River near Raymond	B64200.00	8S/18E-1	January 1962	S	DWR	169, 173
Delta-Mendota Canal to Mendota Pool	B00770.00	13S/15E-19	July 1952	S	DWR	168, 173
Fresno River near Daulton	B67150.00	9S/19E-34	January 1958	S	DWR	169, 173
Fresno Slough at Butte Avenue	C00915.30	16S/17E-8			DWR	173
Horse Creek above Highway 198	C21151.30	18S/28E-4			CRWQCB	170
Jim Gray Creek below Wells Creek	C21162.30	18S/28E-27			CRWQCB	170
Jim Gray Creek near Headwaters	C21168.30	18S/28E-14			CRWQCB	170
Kaweah River at North Fork Drive	C21240.30	17S/28E-24			CRWQCB	170
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	S	USACE	170, 173
Kaweah River, East Fork near Mouth	C23010.30	17S/29E-4			CRWQCB	176
Kaweah River, Inflow to Lake Kaweah	C21210.30	17S/28E-34			CRWQCB	170
Kaweah River, Middle Fork above Buckeye Flat	C23400.30	16S/29E-19			CRWQCB	176
Kaweah River, North Fork near Mouth	C22010.30	17S/28E-13			CRWQCB	176
Kaweah River, South Fork near Mouth	C24020.30	17S/28E-26			CRWQCB	176
Kern River below Isabella Dam	C51350.00	26S/33E-30	September 1955	S	DWR	170, 174
Kern River near Bakersfield	C05150.00	29S/28E-9	April 1951	S	KCFRD	170, 174
Kings River below Peoples Weir	C01140.00	17S/22E-1	April 1951	S	DWR	170, 173
Kings River below Pine Flat Reservoir	C11140.00	13S/24E-2	September 1955	S	USACE	170, 174
Merced River at Milliken Bridge	B05131.00	6S/9E-36	April 1951	S	DWR	168, 173
Merced River below Exchequer Dam	B51200.00	4S/15E-14			DWR	173
Poso Creek at Head of Diversion Canal	C04452.30	27S/27E-30			DWR	174
Rattlesnake Creek below Burn	C13250.30	11S/30E-0			USPS	170
Redwood Creek above Buena Vista Creek	C22563.30	14S/28E-15			USPS	170, 176
Redwood Creek below Buena Vista Creek	C22560.30	14S/28E-34			USPS	170, 176
Salt Slough near Stevinson	B00470.00	8S/10E-10	October 1969	S	DWR	168, 173
Sandy Creek at Gardner Field Road	C07850.30	32S/24E-20			KCWA	170
San Joaquin River at Fremont Ford Bridge	B07375.00	7S/9E-24	July 1955	Q	DWR	169, 173
San Joaquin River below Friant	B07885.00	11S/21E-7	April 1951	S	DWR	169, 173
San Joaquin River at Maze Road Bridge	B07040.00	3S/7E-33	April 1951	S	DWR	169, 173
San Joaquin River near Grayson	B07080.00	4S/7E-24	April 1959	Q	DWR	169, 173
San Joaquin River near Mendota	B07710.00	13S/15E-7	April 1951	S	DWR	169, 173
San Joaquin River near Vernalis	B07020.00	3S/6E-13	April 1951	M	DWR	168, 173, 176
Stanislaus River at Koetitz Ranch	B03115.00	3S/7E-2	April 1951	S	DWR	168, 173
Stanislaus River below Tulloch Dam	B31158.10	1S/12E-2			DWR	173
Tule River below Success Dam	C03196.00	21S/28E-35	July 1952	S	USACE	170, 174
Tuolumne River at Hickman Bridge near Waterford	B04150.00	3S/11E-34	April 1951	S	DWR	168, 173
Tuolumne River at Tuolumne City	B04105.00	4S/8E-12	April 1951	S	DWR	168, 173
Tuolumne River below Don Pedro Dam	B41100.00	3S/14E-3			DWR	173
Wells Creek near Headwaters	C21165.30	18S/28E-25			CRWQCB	170
Wishon Reservoir near Cliff Camp	C12420.00	11S/27E-12			DWR	174

a. Locations are in reference to Mt. Diablo Base and Meridian

b. Beginning of record - regular stations only

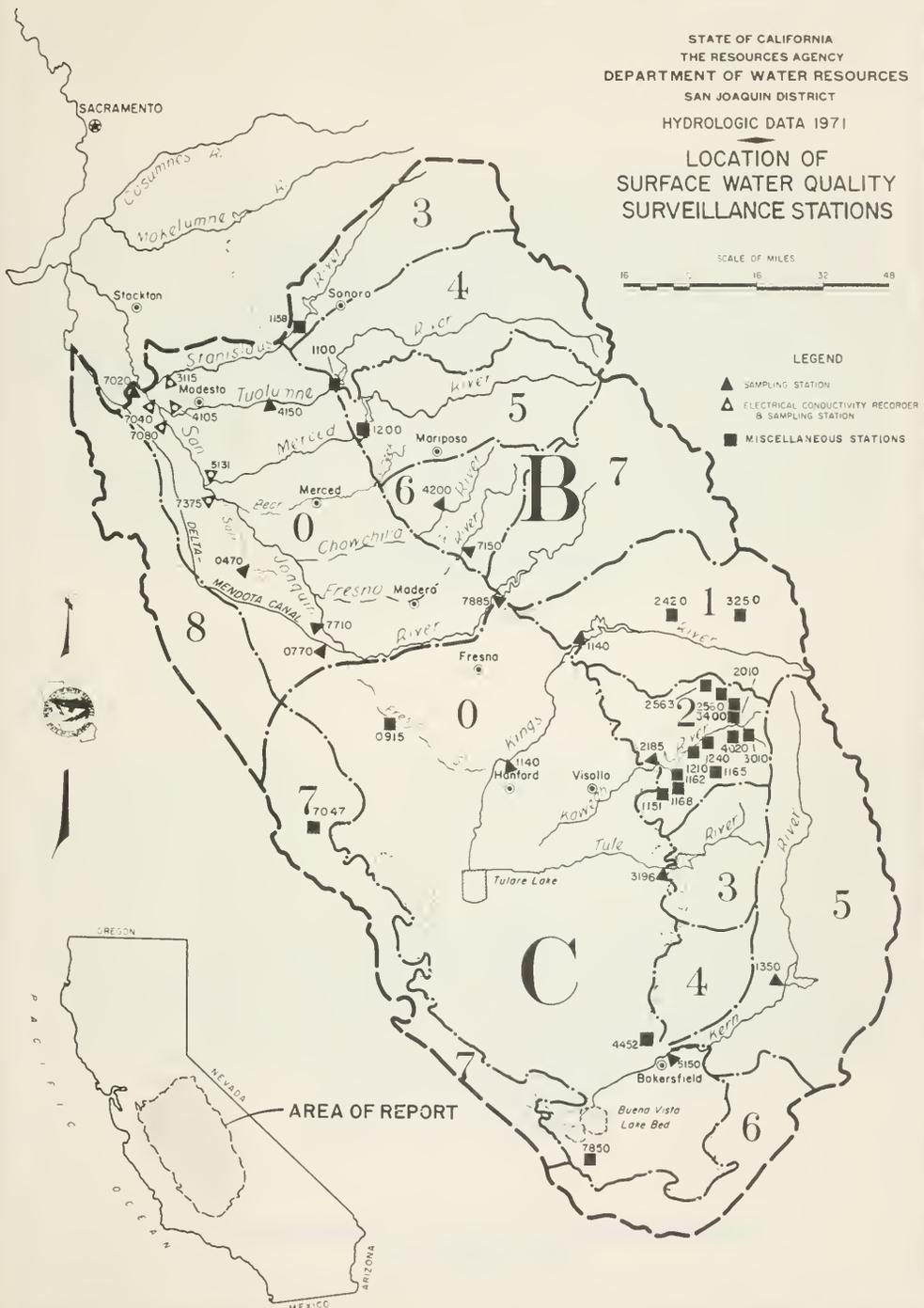
c. M - Monthly, Q - Quarterly, S - Semiannually, all others irregular

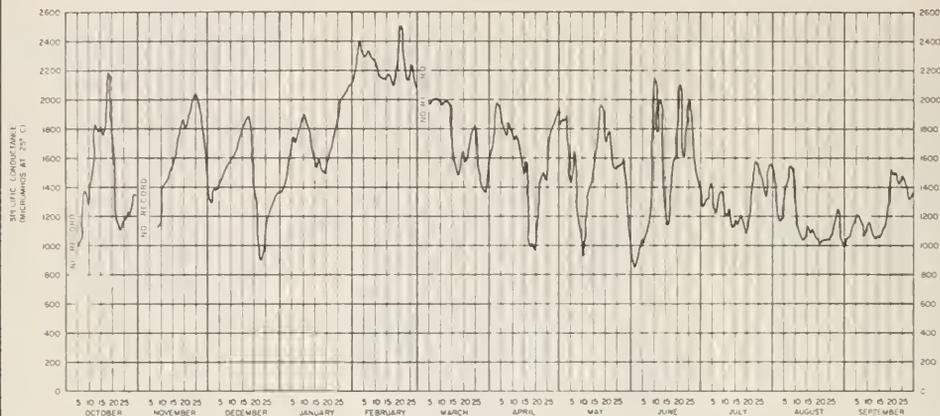
d. DWR - Department of Water Resources; USACE - United Army Corps of Engineers; CRWQCB - California Regional Water Quality Control Board, Central Valley Region; KCFRD - Kern County Parks and Recreation; USPS - United States Forest Service; KCWA - Kern County Water Agency

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

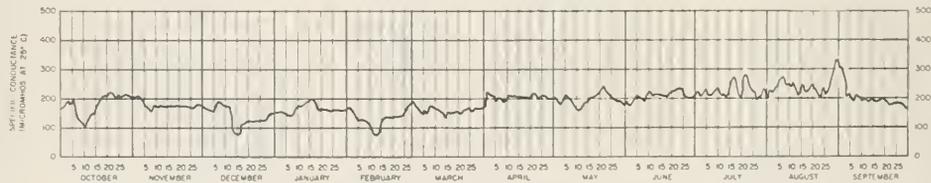
HYDROLOGIC DATA 1971

LOCATION OF
 SURFACE WATER QUALITY
 SURVEILLANCE STATIONS





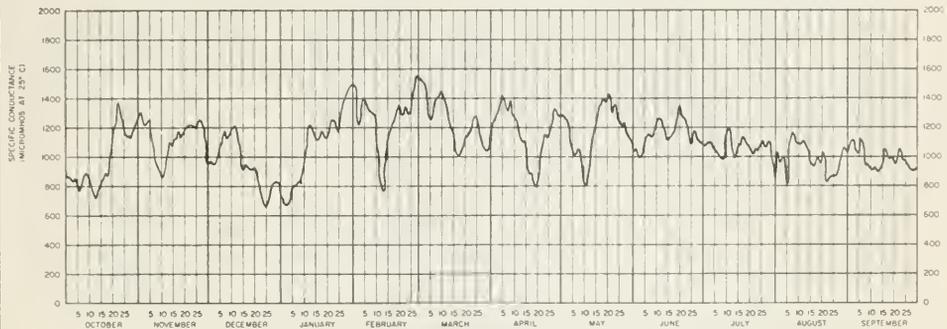
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE
STA. No. B07375.00 RIVER MILE 129.5



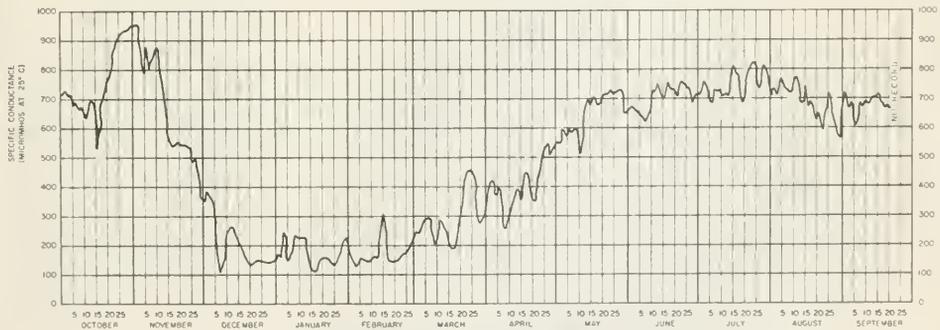
MERCED RIVER AT MILLIKEN BRIDGE
STA. No. B05131.00 RIVER MILE 11.65

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY

1971



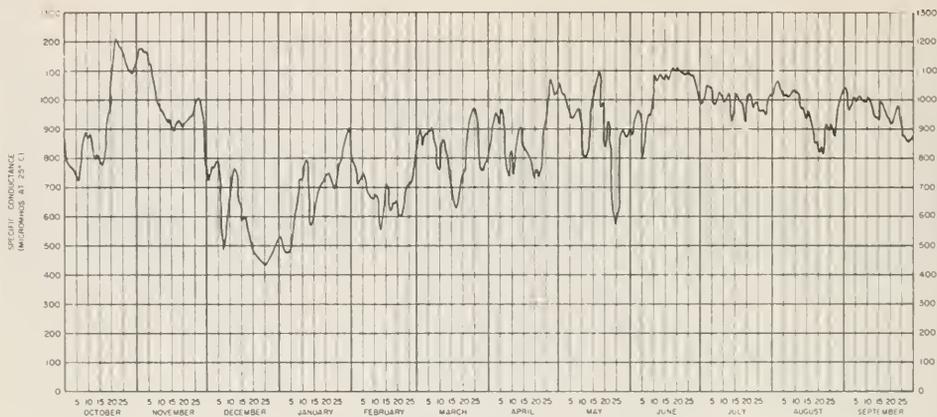
SAN JOAQUIN RIVER NEAR GRAYSON AT LAIRD SLOUGH
STA. No. B07080.00 RIVER MILE 96.05



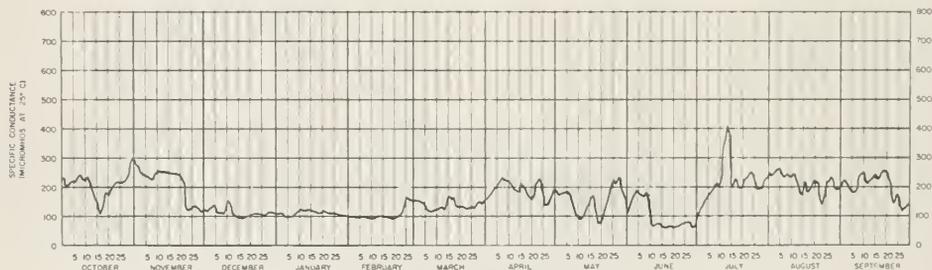
TUOLUMNE RIVER AT TUOLUMNE CITY
STA. No. B04105.00 RIVER MILE 3.35

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY

1971



**SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
STA. No. B07040.00 RIVER MILE 81.95**



**STANISLAUS RIVER AT KOETITZ RANCH
STA. No. B03115.00 RIVER MILE 9.4**

**DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY**

1971

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources' Bryte Laboratory (coded 5050), the U. S. Geological Survey's Sacramento or Salt Lake City Laboratory (coded 5000), or the Twining Laboratory (coded 5802).

The sampler codes are as follows:

5002	U. S. Army Corps of Engineers
5005	U. S. Forest Service
5121	Kern County Water Agency
5050	Department of Water Resources
5055	California Regional Water Quality Control Board, Central Valley Region
5633	Kern County Parks and Recreation Department
5703	Valley Waste Disposal Company

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

<u>Chemical Symbols</u>	<u>Abbreviations</u>
Ca Calcium	TEMP Temperature
Mg Magnesium	DO Dissolved Oxygen
Na Sodium	SAT Percent Saturation
K Potassium	GH Gage Height
CO ₃ Carbonate	Q Flow
HCO ₃ Bicarbonate	FLD Field Determination
SO ₄ Sulfate	LAB Laboratory
Cl Chloride	EC Specific Electrical Conductance in micromhos
NO ₃ Nitrate	pH Measure of acidity or alkalinity of water
F Fluoride	TDS Total Dissolved Solids
B Boron	SUM Summation of analyzed constituents
SiO ₂ Silica	TH Total Hardness
	NCH Non-carbonate Hardness
	TURB Turbidity in Turbidity Units
	SAR Sodium Absorption Ratio

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE ID	LAT. E-114	LONG. W-124	TEMP. C	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER														
						CALCIUM					MAGNESIUM					SODIUM				
						CA	MG	NA	CL	CO3	HCO3	SO4	NO3	CL	NO3	B	F	TO5	TH	TUM
SAN JOAQUIN RIVER AT VERMILIS																				
CONTINUED																				
05/13/71	5050				6.2 OF	27	16	86	3.0		1.74	136	42	1.30	.1	440	130	20		
0855	5050				1.4 MC 7.4	045	1.35	1.32	3.74	.09	2.03	2.71	2.59	.02	20.0			3.2		
						21	20	48	1		31	46	44							
06/10/71	5050	10.0	6.2 OF	6.2	3.0	26	12	78	2.3		1.07	51	44	.7						
0845	5050	107	1.4 MC	7.0	513	1.30	.49	3.34	.06	.00	1.75	1.06	2.65	.01	2.0	.4	335	110	30	
						23	17	59	1		32	19	48		15.0		332	27	3.2	
07/08/71	5050	6.1	7.4 OF	8.0	600	44	21	86	3.4		1.55	74	131	6.6	.20	--	476	194		
0810	5050	71	23.3C	8.2	832	2.20	1.73	3.74	.09	.00	2.54	1.56	3.69	.11	--	--	462	70	2.7	
						28	22	48	1		32	20	47	1						
08/14/71	5050					43	21	86	3.9		1.59	69	131	4.7	.30	--	443	193		
0745	5050				7.4	804	2.15	1.73	3.74	.10	2.61	1.44	3.69	.08	--	--	437	64	2.7	
						26	22	48	1		33	18	47	1						
09/14/71	5050	12.5	7.4 OF	8.0	925	48	22	100	4.7		1.88	77	150	.8	.40	.2	520	210	30	
1500	5050	149	24.5C	8.0	915	2.40	1.41	4.35	.12	.00	3.08	1.40	4.23	.01	21.0		516	57	3.0	
						24	21	50	1		35	18	47							
SAN JOAQUIN RIVER AT HAZE ROAD BRIDGE																				
03/02/71	5050	12.6	51.0F	6.1	775	39	14	89	1.9		1.17	101	120	6.0	.30	--	436	173		
1800	5050	113	14.5C	7.4	776	1.95	1.44	3.47	.05	.00	1.92	2.10	3.38	.10	--	--	453	76	3.0	
						27	20	53	1		26	28	45	1						
07/07/71	5050	11.2	7.4 OF	6.4	800	34	28	128	4.2		1.84	104	180	8.4	.40	--	610	250		
1300	5050	136	25.5C	7.4	1070	2.69	2.30	5.57	.11	.00	3.02	2.17	5.08	.14	--	--	597	99	3.5	
						25	22	52	1		29	21	49	1						
SAN JOAQUIN RIVER NR GRAYSUN AT LAIRD SLOUGH																				
01/07/71	5050	11.1	46.0F	7.8	925	--	--	104	--		1.55	--	128	--	.60	--				
1445	5050	93	7.4C	7.6	858			4.74		.00	2.54		3.61		--	--			205	
								55			30		42							
03/03/71	5050	12.0	50.0F	8.0	1450	67	38	174	3.5		1.98	236	214	14.0	1.00	--	882	325		
0940	5050	174	10.0C	8.3	1440	3.34	3.13	7.74	.09	.00	3.21	4.91	10.81	.23	--	--	853	163	4.3	
						23	22	54	1		22	34	43	2						
07/07/71	5050	8.3	77.0F	8.2	800	34	34	136	4.2		2.08	153	192	11.0	.50	--	726	295		
1135	5050	100	25.0C	7.5	1230	2.64	3.21	5.92	.11	.00	3.38	3.19	5.41	.18	--	--	691	126	3.4	
						23	27	50	1		28	26	44	1						
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																				
02/17/71	5050	5.67	60.0F	8.3	2300	113	52	310	7.0		2.00	458	386	16.0	2.40	--	1480	497		
1500	5050	125	15.5C	7.5	2350	5.04	4.28	13.49	.18	.00	3.29	9.54	10.89	.26	--	--	1443	332	6.1	
						24	18	57	1		14	40	51	1						
03/03/71	5050	5.99	12.4	4.0F	8.2	1800	95	43	234	6.8	1.41	344	280	21.0	1.80	--	1140	416		
1100	5050	107	8.4C	7.4	1430	4.74	3.54	10.18	.17	.00	2.97	7.16	7.40	.34	--	--	1115	264	5.0	
						25	19	55	1		16	39	43	2						
07/07/71	5050	10.0	77.0F	8.2	1200	33	31	171	4.3		1.72	184	239	5.7	.60	--	814	268		
0915	5050	120	25.0C	7.6	1350	3.14	2.55	7.44	.11	.00	2.62	3.41	6.74	.09	--	--	763	144	4.4	
						24	19	46	1		22	26	52	1						
08/16/71	5050	7.0	F	7.6	1100	52	28	143	4.2		1.78	136	194	2.9	.60	--	683	245		
0640	5050	21	C	8.3	1175	2.59	2.30	6.22	.11	.00	2.92	2.79	5.58	.05	--	--	680	99	4.0	
						23	20	55	1		28	25	44							
SAN JOAQUIN RIVER NR MENUTA																				
03/03/71	5050	2.95	13.0	53.0F	8.3	670	37	16	67	2.3	1.0	93	96	46	1.30	--	380	159		
1325	5050	119	11.7C	7.1	644	1.85	1.32	2.91	.06	.00	1.52	2.04	2.71	.09	--	--	368	83	2.3	
						30	21	47	1		24	32	43	1						
07/06/71	5050	4.00	8.1	77.0F	7.4	220	15	74	21	1.7	1.0	66	21	2.1	.10	--	146	64		
1510	5050	97	25.0C	7.5	230	1.75	1.56	3.91	.04	.00	1.08	1.44	2.54	.03	--	--	121	13	1.1	
						33	25	40	2		50	21	28	1						
SAN JOAQUIN RIVER HELLO FRIANT																				
03/02/71	5050	1.85	12.2	46.0F	8.8	77	6.6	6	5.2	.7	1.0	25	2.1	5.4	2.5	.00	--	36	19	
1005	5050	172	7.4C	7.3	68	.33	.05	.23	.02	.00	.41	.04	.13	.04	--	--	35	2	0.5	
						52	0	37	3		64	8	23	6						
07/07/71	5050	2.40	1.4	51.0F	8.4	50	4.4	1	3.6	.7	1.0	16	1.6	2.7	1.7	.00	--	36	11	
0700	5050	93	13.5C	8.4	44	.22	.01	.16	.02	.00	.26	.03	.08	.03	--	--	23	2	0.5	
						34	2	39	5		65	8	20	4						
CHD=CHILLA RIVER NR KAYHOND																				
03/02/71	5050	14.2	46.0F	8.8	200	18	3.6	14	1.5		1.74	2.5	14	.0	.00	--	122	60		
1100	5050	114	7.4C	8.0	190	.90	.30	.61	.04	.00	1.24	1.65	3.4	.00	--	--	98	5	0.8	
						44	16	33	2		64	3	24							
07/07/71	5050	4.8	72.0F	7.4	300	25	3.4	28	4.3		1.85	1.9	5.0	1.1	.00	--	204	80		
0400	5050	100	22.4C	7.4	307	1.25	.32	1.22	.06	.00	1.39	.02	1.41	.00	--	--	152	9	1.4	
						44	11	43	2		49	1	50							
FRESNO RIVER NR DAILTON																				
03/02/71	5050	14.4	46.0F	7.4	134	12	1.7	10	1.2		1.0	7.0	12	.2	.00	--	93	37		
1050	5050	114	6.7C	7.7	132	.50	.14	.44	.03	.00	.84	.06	3.4	.00	--	--	67	8	0.7	
						50	12	36	2		49	5	26							
07/07/71	5050	4.4	54.3F	7.3	100	8.4	2.4	4.9	1.2		3.1	4.8	12	.0	.00	--	74	24		
0750	5050	123	24.5C	7.7	103	.42	.17	.49	.03	.00	.51	.02	3.4	.00	--	--	47	1	0.8	
						45	8	43	3		59	2	34							

TABLE D-2 (Continued)

MINERAL ANALYSIS OF SURFACE WATER																				
DATE TIME	SAMPLE LAB	LAT.	LONG.	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				
						Ca	Mg	Na	K	CO3	HCO3	SO4	CL	NO3	B	F	105 SUM	TH MCM	TDSB SAM	
C0 1140.00 KINGS RIVER BELOW PEOPLES DAM																				
03/07/71	5050	11.1	4.00	7.0	65	6.7	1.3	3.1	.6	.0	24	2.0	2.4	.7	.00	--	38	22		
04-0	5050	96	P.W.C	7.4	58	.35	.11	.13	.02	.00	.47	.04	.07	.01	--	31	1	0.3		
						56	17	22	3		79	7	12	2						
07/06/71	5050	8.05	9.6	06.00	7.0	44	4.5	3.5	2.2	.7	.0	18	1.5	.8	.3	.00	--	36	13	
1370	5050	1.3	P.W.C	7.0	40	.22	.04	.10	.02	.00	.30	.03	.00	.00	--	19	2	0.3		
						58	11	26	5		41	4	10							
C0 2145.00 KAHFAM RIVER BELOW TEMMINUS DAM																				
03/01/71	5002	2.52	12.0	4.0	F	13	1.3	4.3	1.2	.0	52	2.0	3.5	.0	.00	--	74	38		
1130	5050	257	101	8	C 7.8	100	.65	.11	.10	.03	.00	.25	.05	.10	.00	--	51	5	0.3	
							60	11	19	3										
07/01/71	5002	4.74	11.5	6.0	F	6.5	.1	2.2	.9	.0	23	1.5	.0	.0	.00	--	37	17		
1615	5050	1813	115	16	C 7.5	45	.22	.01	.10	.02	.00	.38	.03	.00	.00	--	23	3	0.2	
							71	2	22	4		43	7							
C0 3194.00 TULE RIVER BELOW SUCCESS DAM																				
03/01/71	5002	2.58	14.8	5.0	F	31	5.0	13	2.2	3.0	126	5.4	8.6	1.0	.00	--	153	98		
1055	5050	20	146	15.00	8.4	244	1.55	.41	.57	.06	.10	2.10	.12	.24	.02	--	133	12	0.6	
							60	16	22	2	4	81	5	9						
07/12/71	5002	5.15	9.1	6.0	F	26	4.3	10	2.1	.0	116	1.5	4.7	.0	.10	--	124	83		
1375	5050	275	95	18	C 7.8	205	1.30	.35	.44	.05	.00	1.40	.03	1.3	.00	--	106	13	0.5	
							61	16	21	2		42	1	6						
C0 5150.00 KERN RIVER NR BAKERSFIELD																				
03/02/71	5633				F	9.0	2.8	14	1.9	.0	89	4.4	6.0	.8	.10	--	83	34		
0800	5050				C 7.7	138	.45	.23	.61	.05	.00	.69	.21	1.7	.01	--	74	15	1.0	
							34	17	46	4		72	15	12	1					
07/12/71	5633				F 7.4		6.0	1.9	9.6	1.2	.0	41	7.7	4.1	.0	.20	--	64	23	
0845	5050				C 7.6	104	.36	.16	.42	.03	.00	.67	.16	1.2	.00	--	51	11	0.9	
							33	18	46	3		71	17	13						
C0 7850.30 SANDY CREEK AT GARDNER FIELD ROAD																				
06/07/71	5121					14	5.4	134	13	.0	131	57	73	95.0	1.60	--	566	54		
1000	5050				7.1	802	.70	.48	5.83	.33	.00	2.15	1.14	2.06	1.53	--	458	49	7.6	
							10	7	79	4		31	17	30	22					
C1 1140.00 KINGS RIVER BELOW PINE FLAT RESERVOIR																				
03/05/71	5002	4.85	11.5	4.0	F	4.3	.8	2.0	.4	.0	16	.0	1.0	.5	.00	--	24	14		
1010	5050	1875	130	9	C 7.2	40	.21	.07	.09	.02	.00	.26	.00	.03	.01	--	17	1	0.2	
							54	18	23	5		87								
07/02/71	5002	6.97	9.3	5.0	F	3.7	.3	2.0	.6	.0	14	.8	.0	.0	.00	--	30	10		
1000	5050	5994	86	12	C 7.2	33	.18	.02	.09	.02	.00	.23	.02	.00	.00	--	14	2	0.3	
							58	6	29	6		42	8							
C1 3250.30 RATTLESNAKE CREEK BELOW BURN																				
08/03/71	5005					1.4	.7	1.5	--	.0	9	--	2.7	--	--	--	--	7	2E	
0730	5050				6.9	24	.08	.06	.07	.00	.15	.04	.00		--	--	--	1	0.2	
							33	25	29		62		33							
C2 1151.30 HORSE CREEK ABOVE HIGHWAY 198																				
01/21/71	5055				5.4	F	360	46	14	30	4.0	.0	220	21	24	--	--	275	199	
5802	5050				12.20	8.0	390	2.31	1.64	1.31	.10	.00	3.75	.45	.70	--	--	259	10	
								.3	.81	.24			46	12	16					
C2 1162.30 JIM GREY CREEK BELOW WELLS CREEK																				
01/21/71	5055				5.0	F	360	46	20	22	4.0	.0	250	11	21	--	--	249	204	
5402	5050				10	C 7.7	425	2.34	1.71	.96	.10	.00	4.10	.23	.60	--	--	249	3	
								.46	.33	.19	2		46	5	14					
C2 1165.00 WELLS CREEK NEAR HEADWATERS																				
01/21/71	5055				6.0	F	240	31	11	25	3.0	.0	165	11	21	--	--	204	127	
5402	5050				4	C 7.6	305	1.54	.94	1.09	.08	.00	2.70	.23	.60	--	--	185	9	
								.43	.25	.30	2		89	8	20					
C2 1168.30 JIM GREY CREEK NEAR HEADWATERS																				
01/21/71	5055					328	36	14	24	5.0	.0	207	7.4	21	--	--	--	254	150	
5902	5050				7.4	371	1.81	1.17	1.84	.13	.00	3.34	1.15	.40	--	--	--	210	21	
								.44	.25	.25	3		91	4	16					
C2 2960.30 REDWOOD CREEK BELOW BUENA VISTA CREEK																				
11/06/70	5005					4.4	1.4	2.4	--	.0	20	--	1.4	--	--	--	--	17	4E	
5050	5050				4.0	41	.22	.12	.12	.00	.33	.04	.00		--	--	--	1	0.3	
								.54	.24	.29			80	10						
C2 2963.30 REDWOOD CREEK ABOVE BUENA VISTA CREEK																				
11/06/70	5005					5.2	1.2	3.2	--	.0	25	--	1.1	--	--	--	--	16	5E	
5050	5050				7.7	49	.28	.10	.16	.00	.41	.03	.00		--	--	--	3	6.3	
								.53	.20	.29			84	6						
C5 1350.00 KERN RIVER BELOW ISABELLA DAM																				
03/11/71	5002	6.22	11.0	4.0	F	4.5	2.7	14	1.4	.0	54	4.8	5.5	.3	.10	--	76	32		
1030	5050	390	42	8	C 7.5	132	.42	.22	.61	.05	.00	.47	.18	1.0	.00	--	71	17	1.1	
							37	17	47	4		74	14	32						
07/04/71	5032	7.42	9.4	6.0	F	7.3	.4	9.4	1.2	.0	34	8.4	3.2	.0	.00	--	70	22		
1220	5050	7.84	73	14.0	C 7.4	96	.36	.07	.41	.03	.00	.74	.14	.05	.00	--	48	11	0.4	
							.41	.0	.47	3		74	16	10						

TABLE D-3

TRACE MINERAL ANALYSES OF SURFACE WATER

Table D-3 presents trace mineral analyses performed by the Department of Water Resources' Laboratory or U. S. Geological Survey's Laboratory. The following are definitions of abbreviations and chemical symbols used in this table.

Abbreviations

LAB	Laboratory
	5000 U. S. Geological Survey
	5050 Department of Water Resources
M	Milligrams per liter
U	Micrograms per liter
Y	Less than the amount indicated

Chemical Symbols

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

TABLE D-2
TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAB	AL OE	AS HO	BA LI	BE MN	BI MO	BR NI	CU PB	CO SE	CR SR	CU TI	FE V	GA SR
B00470.00	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
B00770.00	71-4-28	5050	--	0.00M 0.0U	0.1M --	--	--	--	0.00M 0.00M	0.61M --	--	--	--	--
B03115.00	71-3-2	5000	6.0U 0.3UY	--	--	0.6UY 1.4UY	0.3UY 0.3UY	0.8U --	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 3.7U	4.1U 2.7U	5.7UY 5.7UY
	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
	71-7-7	5050	--	0.00M 0.0U	0.1M --	--	--	--	0.00M 0.00M	--	0.01M --	--	--	--
B04105.00	71-3-2	5000	2.9U 0.3UY	--	--	0.6UY 1.4UY	0.3UY 0.3UY	--	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 0.6UY	4.9U 2.1U	5.7UY 5.7UY
	71-5-11	5050	--	0.02M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	0.00M 0.00M	--	--	--
	71-7-7	5050	--	0.00M 0.0U	0.2M --	--	--	--	0.00M 0.00M	--	--	--	--	--
B04150.00	71-5-12	5050	--	0.00M 0.4U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
B05131.00	71-3-3	5000	11U 0.3UY	--	--	0.6UY 1.4UY	0.3UY 1.0U	0.6U --	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 0.6UY	8.3U 2.7U	5.7UY 5.7UY
	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
	71-7-7	5050	--	0.00M 0.0U	0.2M --	--	--	--	0.00M 0.00M	--	--	--	--	--
B07020.00	71-3-2	5000	1.6U 0.3UY	--	--	0.6UY 1.4UY	0.3UY 1.6U	0.4U --	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 6.6UY	3.1U 3.1U	5.7UY 5.7UY
	71-4-15	5000	--	--	8U --	--	--	--	--	--	410U --	--	80U --	--
	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
	71-5-13	5000	--	--	13U --	--	--	--	--	--	390U --	--	40U --	--
	71-6-10	5000	6.5U 0.5UY	--	7U --	1.0UY 11U	0.5UY 5.5U	0.8U --	2.5UY 2.5UY	2.5UY --	770U --	2.5UY 1.0UY	40U 4.0U	10UY 10UY
	71-7-8	5050	--	0.00M 0.1U	0.3M --	--	--	--	0.00M 0.00M	--	--	--	--	--
	71-9-14	5000	--	--	2U --	--	--	--	--	--	760U --	--	20U --	--
B07040.00	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	0.00M --	--	--	--	--
B07080.00	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
B07375.00	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	0.00M --	--	--	--
	71-7-7	5050	--	0.00M 0.0U	0.1M --	--	--	--	0.00M 0.00M	--	--	--	--	--
B07710.00	71-4-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	0.00M --	--	--	--	--
B07885.00	71-4-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
B31158.10	71-5-12	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	0.00M --	--	--	--	--
B41100.00	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	0.00M --	--	--	--
B51200.00	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	0.00M --	--	--	--
B64200.00	71-4-28	5050	--	0.00M 0.0U	0.1M --	--	--	--	0.00M 0.00M	--	0.00M --	--	--	--
B67150.00	71-4-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	0.00M --	--	--	--
C00915.30	71-5-11	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	0.01M --	--	--	--
	71-7-6	5050	--	0.00M 0.0U	0.1M --	--	--	--	0.00M 0.01M	0.00M --	--	--	--	--
C01140.00	71-3-2	5000	2.8U 0.3UY	--	--	0.6UY 1.4UY	0.3UY 0.3UY	0.7U --	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 0.6UY	9.1U 0.6U	5.7UY 5.7UY
	71-4-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	0.00M --	--	--	--
	71-7-6	5050	--	0.00M 0.0U	0.2M --	--	--	--	0.00M 0.01M	--	0.00M --	--	--	--
C02185.00	71-4-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	0.00M --	--	--	--

TABLE D-3 (Continued)
TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAB	AL GE	AS HG	BA LI	BE MN	BI MO	BR NI	CD PB	CO SE	CR SR	CU TI	FE V	GA ZN
C03190.00	71-3-1	5000	2.3U 0.3UY	--	--	0.7UY 1.7UY	0.3UY 2.3U	--	1.7UY 1.7UY	1.7UY --	1.7UY --	1.7UY 0.7UY	4.0U 4.3U	6.7UY --
	71-4-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
	71-7-12	5050	--	0.00M 0.5U	0.2M --	--	--	--	0.00M 0.00M	--	--	--	--	--
C04450.30	71-5-11	5050	--	0.00M 0.0U	0.00M --	--	--	--	0.00M 0.00M	--	--	--	--	--
	71-3-2	5000	9.1U 0.3UY	--	--	0.6UY 1.4UY	0.3UY 6.3U	--	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 0.6UY	12U 1.7U	5.7UY 5.7UY
C05150.00	71-4-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
	71-7	5050	--	0.00M 0.3U	0.1M --	--	--	--	0.00M 0.00M	--	--	--	--	--
C11140.00	71-4-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
	71-8-17	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
C51350.00	71-4-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--
	71-5-28	5050	--	0.00M 0.0U	0.0M --	--	--	--	0.00M 0.00M	--	--	--	--	--

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 following are definitions of abbreviations used in this table.

Abbreviations

BOD	Biochemical Oxygen Demand
COD	Chemical Oxygen Demand
NH ₃ +N	Ammonia plus Organic Nitrogen (as N)
POT	Total and Organic Phosphates (as P)
TURB	Turbidity
LAB	Laboratory
	5000 U. S. Geological Survey
	5050 Department of Water Resources

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER
(Milligrams per liter)

STATION NO.	DATE	LAB	BOD	COD	NH ₃ +N	POT	TURB
B07020.00	70-10-14	5000					14
	70-10-14	5050	4.8	12			
	70-11-18	5000					8
	70-11-18	5050	2.4	5			
	70-12-16	5000					15
	71-1-20	5000					9.7
	71-2-18	5050	2.7	0			
	71-3-2	5000				0.12	7
	71-3-17	5050	2.8	6			
	71-4-15	5050	4.2	14			
	71-4-15	5000				0.32	20
	71-5-13	5000				0.32	20
	71-5-13	5050	4.8	13			
	71-6-10	5050	4.6	17			
	71-6-10	5000				0.25	30
	71-7-8	5050			20		
	71-8-18	5050		6.0	10		
71-9-14	5050		9.3	25			
71-9-14	5000				0.30	30	
C21210.30	71-9-20	5050			0.10		
C21240.30	71-9-20	5050			0.10		
C22010.30	71-9-20	5050			0.10		
C22560.30	70-11-6	5050					4
C22563.30	70-11-6	5050					5
C23010.30	71-9-20	5050			0.10		
C23400.30	71-9-20	5050			0.00		
C24020.30	71-9-20	5050			0.10		

APPENDIX E
GROUND WATER QUALITY

INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1971 water year (October 1, 1970 through September 30, 1971). These data were obtained from analyses of water samples from approximately 176 wells.

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

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 125. A 40-acre tract may contain a well that has not been assigned a state number or may have a well that is of a temporary nature. These are numbered in the 80 series; i.e. 15S/22E-27K80M. A spring when sampled is given an added letter designation; i.e. 18S/28E-14E01SM.

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

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

5000	U. S. Geological Survey
5006	U. S. Fish and Wildlife
5050	Department of Water Resources
5055	Water Pollution and Quality Control Boards
5060	Department of Public Health
5119	Kern County Health Department
5121	Kern County Water Agency
5129	Kings County Water District
5214	City of Visalia
5217	City of Chowchilla
5601	Stone Corral Irrigation District
5703	Valley Waste Disposal Company
5802	Twining Laboratory
5803	Hornkohl Laboratory
5817	Biological Testing and Research Laboratory

Chemical Symbols

B	Boron	K	Potassium
Ca	Calcium	Mg	Magnesium
Cl	Chloride	Na	Sodium
CO ₃	Carbonate	NO ₃	Nitrate
F	Fluoride	SiO ₂	Silica
HCO ₃	Bicarbonate	SO ₄	Sulfate

Abbreviations

EC	Specific Electrical Conductance	TDS	Total Dissolved Solids
FLD	Field Determination	TEMP	Water Temperature at Time of Field Sampling
LAB	Laboratory	F	Fahrenheit
NCH	Non-Carbonate Hardness	C	Celsius
SAR	Sodium Adsorption Ratio	TIME	Pacific Standard Time on a 24-Hour Clock
SUM	Sum of Mineral Constituents	PH	Measure of Acidity or Alkalinity
TH	Total Hardness		

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAM-PLER LAB	TEMP	FIELD LABORATORY PH	FIELD EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER						
					CA	MG	NA	K	PERCENT CO3	PERCENT HCO3	SO4	CL	VALU NO3	B	F 5102	TDS SUM	TM MCH	SAM	
04/02/71 1135	5050 Su50	M	66.0F	7.2	330	22	14	19	--	.0	137	--	12	14.0	.00	--	115		
			18.9C	7.3	322	1.10	1.20	.83		.00	2.25		.34	.23	--		3	0.8	
04/02/71 0840	5050 5050	M	62.0F	7.0	170	12	8.8	7.0	--	.0	81	--	2.4	6.0	.00	--	66		
			16.7C	7.2	162	.60	.72	.30		.00	1.33		.08	.10	--		1	0.4	
04/02/71 0970	5050 5050	M	63.0F	7.0	475	24	10	55	--	.0	141	--	78	4.0	.10	--	103		
			17.2C	7.4	489	1.20	1.6	2.39		.00	2.31		2.20	.06	--		13	2.4	
04/01/71 1320	5050 5050	M	63.0F	7.4	625	51	20	60	--	.0	330	--	22	26.0	.00	--	212		
			17.2C	7.6	634	2.54	1.69	2.61		.00	5.41		.62	.45	--		59	1.8	
04/01/71 0945	5050 5050	M	62.0F	7.4	450	46	14	29	--	.0	234	--	6.5	18.0	.00	--	175		
			16.7C	7.6	451	2.30	1.20	1.26		.00	3.84		.18	.29	--		17	1.0	
04/04/71 1100	5050 5050	M	63.0F	7.4		37	13	28	--	.0	233	--	10	7.9	.00	--	149		
			17.2C	7.6	399	1.85	1.13	1.22		.00	3.82		.28	.13	--		42	1.0	
04/07/71 1005	5050 5050	M	62.0F	7.4		65	14	129	--	.0	351	--	126	30.0	.00	--	221		
			16.7C	7.5	1020	3.24	1.18	5.61		.00	5.75		3.61	.48	--		67	3.8	
04/06/71 1715	5050 5050	M	61.0F	7.0		53	16	67	--	.0	278	--	61	23.0	.00	--	201		
			16.1C	7.1	693	2.64	1.37	2.91		.00	4.56		1.72	.37	--		26	2.1	
04/02/71 1400	5050 5050	M	68.0F	7.6	200	13	5.7	17	--	.0	89	--	5.7	12.0	.00	--	56		
			20.0C	7.8	187	.65	.47	.74		.00	1.46		.16	.19	--		17	1.0	
04/01/71 0920	5050 5050	M	62.0F	6.8		78	20	183	--	.0	408	--	245	16.0	.00	--	279		
			16.7C	7.2	1430	3.89	1.69	7.96		.00	6.69		6.91	.26	--		56	4.8	
04/07/71 1400	5050 5050	M	66.0F	7.3		33	13	29	--	.0	171	--	17	31.0	.00	--	137		
			18.9C	7.7	398	1.65	1.09	1.26		.00	2.80		.48	.50	--		3	1.1	
04/07/71 1510	5050 5050	M	69.0F	7.6		15	6.4	30	--	.0	82	--	41	8.8	.00	--	64		
			20.5C	7.7	289	.75	.53	1.31		.00	1.34		1.16	.14	--		3	1.6	
04/02/71 1045	5050 5050	M	68.0F	7.9	170	14	3.7	15	--	.0	71	--	13	12.0	.00	--	50		
			20.0C	8.2	190	.70	.30	.65		.00	1.16		.37	.19	--		8	0.9	
04/01/71 1320	5050 5050	M	68.0F	7.4	1700	110	20	248	--	.0	269	--	476	26.0	.00	--	360		
			20.0C	7.5	2010	5.49	1.70	10.79		.00	4.41		13.42	.42	--		139	5.7	
04/01/71 1430	5050 5050	M	69.0F	7.3		22	6.1	44	--	.0	147	--	9.0	10.0	.00	--	80		
			20.5C	7.5	372	1.10	.50	1.91		.00	2.41		.25	.16	--		41	2.1	
04/02/71 1110	5050 5050	M	66.0F	7.1	240	22	8.4	20	--	.0	124	--	4.6	16.0	.00	--	91		
			18.9C	7.2	281	1.10	.72	.87		.00	2.03		.13	.26	--		11	0.9	
04/06/71 1400	5050 5050	M	65.0F	7.3	850	66	17	108	--	.0	398	--	78	13.0	.00	--	236		
			18.3C	7.5	914	3.29	1.42	4.70		.00	6.52		2.20	.21	--		91	3.1	
04/07/71 0945	5050 5050	M	67.0F	7.3	500	48	21	40	--	.0	235	--	13	24.0	.00	--	209		
			19.4C	7.5	565	2.40	1.78	1.74		.00	3.45		.37	.39	--		17	1.2	

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS								MILLIGRAMS PER LITER PERCENT EQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
				Ca	Mg	Na	K	IN	CO ₃	HCO ₃	SO ₄	CL	NO ₃	8	F	TDS SUM	TH NC4	SAW			
04/01/71	5050	65.0F	7.2	980	52	32	53	--	.0	308	--	43	23.0	.00	--			264			
1005	5050	14.3C	7.4	698	2.59	2.68	2.31		.00	5.05		1.21	.37	--	--		11	1.4			
					37	38	33			72		17	5								
04/08/71	5100	66.0F	7.3	560	56	17	42	--	.0	281	--	13	6.3	.00	--			212			
0945	5050	14.9C	7.3	566	2.70	1.44	1.83		.00	4.61		.37	.10	--	--		19	1.3			
					49	25	32			81		7	2								
04/07/71	5050	66.0F	7.3	600	64	30	36	--	.0	392	--	14	7.8	.00	--			286			
1525	5050	14.9C	7.6	641	3.10	2.52	1.57		.00	6.42		.39	.13	--	--		36	0.9			
					50	39	24			100		6	2								
04/01/71	5050	71.0F	7.2	295	18	7.8	35	--	.0	141	--	13	6.6	.00	--			77			
1400	5050	21.6C	7.3	310	.90	.84	1.52		.00	2.31		.37	.11	--	--		39	1.7			
					29	21	49			75		12	4								
04/08/71	5050	72.0F	7.6	1250	78	32	84	--	.0	190	--	240	10.0	.00	--			327			
1325	5050	22.2C	7.4	1110	3.89	2.64	3.65		.00	3.11		6.77	.16	--	--		171	2.0			
					35	24	33			28		61	1								
04/02/71	5050	72.0F	7.4	240	16	5.4	24	--	.0	98	--	23	5.5	.00	--			62			
1245	5050	22.2C	7.6	255	.80	.44	1.04		.00	1.61		.65	.09	--	--		19	1.3			
					31	17	41			63		25	4								
04/01/71	5050	71.0F	7.2	210	18	7.5	18	--	.0	87	--	14	22.0	.00	--			76			
1520	5050	21.6C	7.5	241	.90	.62	.78		.00	1.43		.39	.35	--	--		5	0.9			
					37	26	32			59		16	15								
08/30/71	5217		7.3		16	4.6	23	--	.0	79		8.6	1.3	--	--			196			
5002	5002				.84	.33	1.00		.00	1.29		.18	.02	--	--		37.2	155	61	1.3	
										59		8	32					4			
08/30/71	5217		7.1		13	5.5	33	--	.0	95		5.7	31	--	--			236			
5002	5002				.69	.45	1.44		.00	1.56		1.2	.90	--	--		54.4	192	57	1.9	
										60		5	35					21			
08/30/71	5217		7.7		15	5.5	19	--	.0	76		6.2	21	--	--			204			
5002	5002				.77	.45	.83		.00	1.25		.63	.03	--	--		54.8	161	61	1.1	
										62		6	30					2			
08/30/71	5217		7.2		81	34	107	--	.0	470		69	74	--	--			694			
5002	5002				4.07	2.80	4.65		.00	7.70		1.44	2.10	--	--		20.8	635	344	2.5	
										67		13	18					42			
03/31/71	5050	64.0F	7.2	1400	171	25	55	--	.0	183	--	371	12.0	.00	--			532			
1020	5050	17.8C	7.4	1440	8.53	2.10	2.39		.00	3.00		10.46	.19	--	--			382		1.0	
					59	15	17			21		73	1								
04/12/71	5050	74.0F	6.8	170	13	6.2	14	4.7	.0	50	4.6	13	30.0	.00	--			177			
1430	5050	23.3C	7.3	197	.65	.51	.61	1.2	.00	.82		.10	.37	--	--		110	58		0.8	
					34	27	32	6		46		6	21					17			
08/09/71	5050	67.4F	6.6	160	13	6.0	6.0	1.0	.0	74	10	4.0	.5	.00	--			81			
1330	5050	14.6C	6.6	149	.65	.49	.26	.03	.00	1.21		.21	.11	--	--		77	4		0.3	
					45	34	18	2		79		14	7								
08/09/71	5050	67.5F	6.3	491	51	18	27	2.0	.0	256	31	5.0	30.0	.03	--			316			
1100	5050	14.7C	7.7	491	2.54	1.48	2.8	1.7	.05	4.23		.65	.48	--	--		291	201		0.8	
					48	28	22	1		77		12	3					11			
08/04/71	5050	74 F	7.4	165	11	5.0	13	2.0	.0	73	11	3.0	2.0	.00	--			84			
1400	5050	23 C	7.1	147	.55	.41	.57	.05	.00	1.20		.23	.08	--	--		83	12		0.8	
					35	26	36	3		78		15	5								
12/09/70	5124	61.0F		228	33	4.0	9.0	--	.0	126	--	5.6	.3	.00	--			90			
5050	5050	17.2C	8.3	223	1.85	.33	.39		.00	2.07		.30	.00	--	--		5			0.4	
					74	15	17			43		7									
11/0-70	5124	66.0F		178	25	4.4	6.4	--	.0	47	--	2.6	3.4	.00	--			82			
5050	5050	18.9C	8.3	174	1.25	.34	.24		.00	1.54		.07	.06	--	--		3			0.3	
					72	22	16			41		4	3								

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE ID	TEMP LABORATORY	FIELD LOC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT EQUVALENTS PER LITER	B	F	TDS SUM	TH NCH	SAR					
12/14/70	5129 5050	66.0F 17.9C	7.6	1261	62	29	172	--	.0	565	--	88	49.0	+30	--	--	--	275	172	4.5			
				3.09	2.40	7.48			.00	8.93		2.44	.79										
				27	21	66				79		22	7										
12/09/70	5129 5050	66.0F 18.9C	8.3	623	44	17	80	--	.0	326	--	26	1.0	+30	--	--	--	180	87	2.6			
				2.20	1.40	3.48			.00	5.34		.73	.02										
				36	23	58				89		12											
12/14/70	5129 5050	66.0F 18.9C	8.1	587	18	2.4	109	--	.0	274	--	37	.6	+30	--	--	--	55	170	6.4			
				1.90	1.40	4.74			.00	4.49		1.04	.01										
				16	3	83				76		18											
04/14/71	5050 5050			7050	113	125	1160	--	.0	285	--	2010	6.8	--	--	--	--	800	566	17.8			
				5.64	10.35	50.44			.00	4.67		56.68	.11										
				8	15	72				7		80											
04/14/71	5050 5050			24300	284	355	4850	--	.0	622	--	9010	.0	--	--	--	--	2170	1660	45.3			
				14.17	29.20	10.94			.00	10.19		254.08	.00										
				6	12	87				4		105											
06/07/71	5121 5050		8.3	584	13	1.9	111	1.6	.0	211	10	60	26.0	+30	--	--	360	41	7.6				
					.65	.16	4.83	.04	.00	3.45	.21	1.65	.42										
					11	3	85	1		60	4	29	7										
04/13/71	5050 5050		7.8	3520	169	58	492	--	.0	136	--	581	15.0	--	--	--	--	662	550	8.3			
					8.43	4.79	21.40		.00	2.23		16.38	.24										
					24	14	61			6		47	1										
02/12/71	5006 5003		8.8	282	2.4	4.9	51	.5	11	84	18	21	.0	--	.9	152	26	4.3					
					.12	.40	2.22	.01	.33	1.38	.36	.60	.00		--	151	62						
					4	15	81	14	14	50	14	22											
03/10/71	5006 5003		9.5	198	1.2	.5	46	.1	33	20	9.6	17	--	--	1.2	119	5	9.1					
					.06	.04	2.04	.00	1.12	.35	.20	.50			--	119	68						
					3	2	95	57	57	17	10	25											
04/23/71	5121 0930		7.9	570	20	1.7	93	--	.0	78	--	56	.2	+10	--	--	--	57	7	5.4			
					1.00	1.4	4.05		.00	1.28		1.58	.00										
					18	2	71			22		28											
04/29/71	5121 1100		8.7	816	8.1	2.9	156	--	12	86	--	67	.1	+40	--	--	--	32	59	12.0			
					.40	.24	6.79		.40	1.41		1.89	.00										
					5	3	83	5	5	17		23											
04/23/71	5121 0900		8.2	168	1.7	.7	34	--	.0	64	--	7.1	1.0	+00	--	--	--	7	46	5.5			
					.08	.06	1.48		.00	1.05		.20	.02										
					5	4	88			62		12	1										
04/13/71	5050 5050		7.2	23500	1300	849	3430	--	.0	153	--	7730	358	--	--	--	--	6740	6614	18.2			
					64.87	69.82	149.21		.00	2.51		217.99	5.77										
					28	30	63			1		93	2										
04/13/71	5050 5050		7.5	6230	386	127	874	--	.0	144	--	1130	5.0	--	--	--	--	1490	1372	9.9			
					19.26	10.52	36.02		.00	2.36		31.87	.08										
					31	17	61			4		51											
04/23/71	5121 1240		9.0	179	4.0	1.0	32	--	12	33	--	12	3.1	+00	--	--	--	14	33	3.7			
					.20	.08	1.39		.40	.54		.34	.05										
					11	4	78		22	30		19	3										
04/23/71	5121 1645		8.9	177	1.8	1.1	33	--	7.0	44	--	8.6	3.5	+00	--	--	--	9	39	4.8			
					.09	.09	1.44		.23	.72		.24	.06										
					5	5	81		13	41		14	3										
04/23/71	5121 1700		9.3	167	1.6	1.2	30	--	16	33	--	5.7	3.2	+00	--	--	--	9	45	4.4			
					.08	.10	1.31		.53	.54		1.16	.05										
					5	9	78		32	32		10	3										
03/05/71	5000 5050	79.0F 26.1C	9.6	190	.8	2.4	41	--	18	44	--	6.2	.7	--	.5	12	5.2	54					
					.04	.11	1.78		.60	.72		.17	.01										
					2	11	90		33	40		9	1										

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS				MILLIGRAMS PER LITER					MILLIGRAMS PER LITER						
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	AS	F	TDS SUM	TM MCM	SAW		
03/05/71	5060 5050	79.0F 26.1C	9.9	184	1.0 .05 3	.6 .05 3	.40 1.74 95	--	.28 .93 51	.24 .39 21	--	5.6 .16 9	.2 .00	--	.4 --	--	5 51	7.8	
04/24/71	5121 1025	26S/25E-27801	8.1	235	1.00 4.3	2.0 8	26 1.13 48	--	.0 .00	101 1.66 71	--	10 .28 12	6.7 .11 5	.00	--	--	54 24	1.5	
04/07/71	5050 5050	27S/21E-24P02	7.8	3000 3270	150 7.49 23	26 2.20 7	545 23.71 73	--	.0 .00	157 2.57 8	--	293 8.26 25	2.4 .04	--	--	--	485 356	10.8	
04/26/71	5121 1155	27S/23E-31P01	7.8	2080	48 2.40 12	3.9 .32 2	355 15.44 74	--	.0 .00	53 .87 4	--	516 14.55 70	8.0 .13 1	.50	--	--	136 93	13.3	
04/26/71	5121 1400	27S/24E-11F01	8.1	237	2.2 1.10 46	2.2 .18 8	26 1.13 48	--	.0 .00	88 1.44 61	--	10 .28 12	11.0 .18 8	.00	--	--	64 8	1.4	
04/26/71	5121 1415	27S/24E-14F01	7.4	317	32 1.60 50	1.2 .10 3	27 1.17 37	--	.0 .00	81 1.33 42	--	22 .62 20	18.0 .29 9	.00	--	--	85 19	1.3	
04/26/71	5121 1430	27S/24E-35C01	7.2	715	83 4.14 58	1.4 .12 2	48 2.09 29	--	.0 .00	41 .67 9	--	106 2.99 42	46.0 .77 11	.00	--	--	213 180	1.4	
08/12/71	5121 1140	27S/26E-08G01	67 F 19 C	8.0	410	48 2.40 59	5.8 .48 12	28 1.22 30	--	.0 .00	117 1.92 47	--	58 1.64 40	5.1 .08 2	--	--	144 46	1.0	
04/02/71	5121 0925	27S/26E-16G01	67.0F 19.4C	8.3	695	76 3.79 57	13 1.07 16	39 2.3 26	.0 .06	123 2.02 31	31 .65 10	123 3.47 54	21.0 .34 5	.00	--	--	431 366	242 142	1.1
08/12/71	5121 1130	27S/26E-16G01	69 F 21 C	8.0	663	78 3.89 59	11 .90 14	34 1.48 22	--	.0 .00	124 2.03 31	--	123 3.47 52	21.0 .34 5	--	--	241 136	1.0	
03/19/71	5121 0930	27S/26E-17D01	68.0F 20.0C	8.3	742	88 4.39 60	18 1.48 20	32 1.39 19	2.8 .07	.0 .00	128 2.10 30	65 1.35 19	101 2.45 40	49.0 .79 11	.00	--	488 419	292 189	0.8
06/18/71	5703 5803	27S/26E-22G01	8.3	323	17 .88 26	6.3 .52 15	44 1.92 57	1.8 .05	7.2 .24	67 1.10 34	14 .30 9	59 1.68 52	--	.05 19.4	.1 203	205 3	70 2.3		
06/02/71	5703 5803	27S/26E-27A01	7.8	1333	173 8.64 60	30 2.51 17	73 3.20 22	4.6 .12	.0 .00	159 2.61 20	38 .80 6	388 10.96 82	--	.15 26.9	.1 814	815 427	558 1.4		
05/11/71	5703 5803	27S/26E-27A01	7.2	2083	300 14.97 69	51 4.21 20	50 2.20 10	6.2 .16	.0 .00	199 3.26 16	146 3.10 15	533 15.04 72	--	--	.1 22.0	1211 1210	960 797	0.7	
03/09/71	5121 1120	27S/26E-32A01	74 F 23 C	8.1	322	32 1.60 50	4.6 .38 12	27 1.17 37	1.7 .04	.0 .00	82 1.34 44	43 .90 29	21 .59 19	14.0 .23 8	.00	--	186 184	99 32	1.2
08/12/71	5121 1100	27S/26E-32A01	74 F 23 C	8.0	333	36 1.80 54	2.9 .24 7	28 1.22 37	--	.0 .00	88 1.44 43	--	25 .71 21	17.0 .27 8	--	--	102 30	1.2	
03/19/71	5121 0910	27S/26E-34C01	74.0F 23.3C	8.0	948	118 5.89 40	83 6.83 46	46 2.00 14	2.4 .06	.0 .00	93 1.52 16	198 4.12 44	114 3.21 34	35.0 .56 6	.00	--	659 642	370 560	0.8
08/12/71	5121 1040	27S/26E-34C01	78 F 26 C	8.0	523	50 2.50 48	4.4 .36 7	44 1.41 37	--	.0 .00	73 1.20 23	--	71 2.00 34	12.0 .19 4	--	--	143 83	1.6	
04/07/71	5050 5050	28S/22E-33N01	7.9	3360	194 9.68 29	66 5.44 16	420 18.27 54	--	.0 .00	90 1.44 4	--	443 12.49 37	.8 .01	--	--	757 683	6.6		

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER PERCENT DIFFERENCE VALUE					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR			
04/26/71 1120	5121 5050		7.6	432	62 3.09 33	2.7 .22 2	119 5.18 56	--	--	119 1.95 21	--	80 2.26 24	44.0 .71 8	.00	--		166	4.0		
04/26/71 1230	5121 5050		7.8	1140	52 2.59 23	3.4 .28 2	162 7.05 62	--	.0	54 .84 8	--	224 6.32 55	6.8 .11 1	.50	--		144 99	5.9		
04/26/71 1310	5121 5050		7.6	1430	129 6.44 45	1.7 .14 1	140 6.09 43	--	.0	20 .33 2	--	319 9.00 63	11.0 .16 1	.00	--		329 313	3.4		
04/26/71 1300	5121 5050		8.4	174	3.3 .16 9	.4 .03 2	28 1.22 70	--	2.0 .40 4	55 .90 52	--	13 .37 21	1.8 .03 2	.00	--		10 39	3.9		
04/02/71 0900	5121 5050		7.9	824	88 4.39 58	7.4 .61 8	59 2.57 34	1.8 .05 1	.0	64 1.05 14	108 2.25 29	136 3.84 50	34.0 .55 7	.00	--	544 466	250 198	1.6		
08/12/71 1020	5121 5050		7.7	487	42 2.10 43	2.7 .22 5	50 2.18 45	--	.0	74 1.29 26	--	78 2.20 45	13.0 .21 4	--	--		116 52	2.0		
03/09/71 1145	5121 5050		8.1	2020	300 14.97 67	39 3.21 14	94 4.09 18	4.9 .13 1	.0	120 1.97 9	478 9.95 46	222 6.26 29	220 3.55 16	.00	--	1560 1417	911 811	1.4		
08/12/71 1030	5121 5050		8.0	1830	280 13.97 76	39 3.21 18	40 3.48 19	--	.0	122 2.00 11	--	220 6.20 34	197 3.18 17	--	--		860 760	1.2		
03/09/71 1240	5121 5050		8.3	250	.6 .03 1	.6 .05 2	51 2.22 96	.3 .01	.0	97 1.59 67	4.3 .64 4	24 .00 29	.0	.10	--	146 129	4 76	11.1		
08/12/71 1000	5121 5050		9.0	246	2.2 .11 4	.8 .07 3	50 2.18 89	--	6.0 .74 8	74 1.21 49	--	32 .90 37	.0	--	--		9 62	7.3		
03/09/71 0100	5121 5050		7.5	2340	167 8.33 35	8.0 .66 3	342 14.88 62	2.5 .06	.0	31 .51 45	510 10.62 11	408 4.51 45	65.0 1.05 4	.00	--	1670 1518	450 424	7.0		
08/12/71 0940	5121 5050		7.9	1570	79 3.94 25	3.9 .32 2	230 10.01 64	--	.0	32 .52 3	--	290 8.18 52	26.0 .42 3	--	--		213 187	6.9		
03/19/71 0845	5121 5050		7.7	1440	50 2.50 19	35 2.88 21	186 8.09 60	1.4 .04	.0	62 1.02 7	214 4.44 33	266 7.50 55	40.0 .65 5	.20	--	862 823	269 218	4.9		
04/26/71 1240	5121 5050		7.7	1090	31 1.55 14	2.1 .17 2	156 6.79 62	--	.0	40 .66 6	--	285 8.04 74	1.8 .03	.20	--		86 53	7.3		
04/07/71	5050 5050		7.7	5500 5290	298 14.87 28	13 1.2 2	780 33.43 64	--	.0	33 .54 1	--	1420 40.04 76	.0 .00	--	--		800 773	12.0		
04/07/71	5050 5050		7.5	2720	143 7.14 26	4.1 .34 1	405 17.62 65	--	.0	9 .15 1	--	824 23.24 85	.0 .00	--	--		374 367	9.1		
08/10/71 1400	5121 5050		7.9	410	23 1.15 32	1.1 .09 3	54 2.35 65	.2 .01	.0	41 .67 19	57 1.19 33	59 1.66 33	3.4 .06 2	.10	--	244 218	62 29	3.0		
08/10/71 1450	5121 5050		8.0	270	18 .90 33	1.2 .10 4	36 1.57 58	--	.0	75 1.23 46	--	19 .54 20	6.5 .10 4	--	--		58 12	2.2		
08/10/71 1510	5121 5050		8.2	400	50 2.50 63	7.3 .60 15	32 1.34 35	--	.0	162 2.65 47	--	18 .51 13	4.0 .23 6	--	--		155 22	1.1		

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER Lab	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						
				CA	MG	NA	K	CO3	HCO3	CO4	CL	NO3	B	F	IO5 S04	TH NCH	SAW	
08/10/71 1500	5121 5050	295/25E-2VF-1	M 7.22	F C R+2	140	11.55 29	.08 .07 4	28 1.22 64	--	.0	72 1.19 62	--	12 .34 18	2.4 .04	--	--	31 26	2.2
08/10/71 1430	5121 5050	295/25F-30P01	M 7.21	F C R+1	283	18.90 32	.2 .02 1	37 1.61 57	--	.0	66 1.08 38	--	25 .71 25	7.0 .11 4	--	--	46 8	2.4
08/10/71 1400	5121 5050	295/25E-33L01	M 7.21	F C R+9	394	45.2 57	1.9 .16 38	36 1.48 38	--	.0	144 2.36 60	--	20 .56 14	17.0 .27 7	--	--	120 3	1.4
04/29/71 1100	5121 5050	295/26E-10F01	M 7.8	F C	1080	130.6 60	10 .83 8	99 3.87 36	--	.0	139 2.28 21	--	67 1.89 17	36.0 .61	+20	--	366 252	2.0
04/29/71 0845	5121 5050	295/26F-11J01	M 8.0	F C	536	38.1 35	3.4 .32 6	71 3.09 58	--	.0	154 2.52 47	--	23 .45 12	21.0 .34	+20	--	111 15	2.9
04/29/71 0410	5121 5050	295/26E-12C01	M 8.1	F C	536	31.1 29	.9 .07 1	74 3.22 60	--	.0	46 .75 14	--	40 1.13 21	14.0 .23	+00	--	81 44	3.6
04/29/71 0840	5121 5050	295/26E-14A01	M 8.3	F C	475	35.1 37	4.0 .33 7	56 2.44 51	--	.0	82 1.34 28	--	33 .93 20	10.0 .16	+10	--	104 37	2.4
08/10/71 1540	5121 5050	295/26E-22F01	M 6.8	F C R+1	747	99.4 66	10 .82 11	40 1.74 23	--	.0	160 2.62 35	--	61 1.72 23	46.0 .74	--	--	289 157	1.0
08/10/71 1330	5121 5050	295/26E-26N02	M 7.9	F C R+0	508	66.3 65	9.1 .75 15	26 1.13 22	--	.0	142 2.33 46	--	62 1.75 34	19.0 .31	--	--	202 86	0.8
08/10/71 1100	5121 5050	295/26E-34P01	M 6.7	F C R+0	460	43.2 49	5.1 .42 9	42 1.83 41	1.3 .03 1	.0	115 1.88 43	23 .48 11	60 1.69 39	19.0 .31	+40	--	289 250	1.6
04/30/71 1330	5121 5050	295/26E-32K01	M 76.0F 24.4C	F C R+8	332	37.1 56	4.2 .35 11	24 1.04 31	--	.0	126 2.07 62	--	20 .56 17	3.8 .06	+20	--	109 7	1.0
04/07/71	5050 5050	305/26E-23001	M 8.0	F C	1800 1570	103.5 31	15 1.27 8	245 10.66 66	--	.0	231 3.79 23	--	139 3.92 23	.0 .00	--	--	321 131	6.0
04/08/71	5050 5050	305/25E-30A01	M 7.5	F C	8000 7960	923.4 59	64 5.30 7	608 26.45 34	--	.0	46 .75 1	--	2710 76.42 97	.4 .01	--	--	2570 2533	5.2
04/28/71 1400	5121 5050	305/26E-07L02	M 8.1	F C	247	28.1 57	2.5 .21 9	20 .87 35	--	.0	112 1.84 74	--	10 .28 11	1.8 .03	+10	--	80 12	1.0
04/21/71 1040	5121 5050	305/26E-12M01	M 7.9	F C	512	58.2 56	9.3 .76 15	35 1.52 30	--	.0	183 3.00 59	--	23 .65 13	42.0 .68 13	+20	--	183 33	1.1
04/28/71 0840	5121 5050	305/26E-35K01	M 8.2	F C	317	28.1 44	2.0 .16 5	39 1.70 54	--	.0	140 2.29 72	--	11 .31 10	3.9 .06	+10	--	78 37	1.9
04/21/71 1030	5121 5050	305/27E-05001	M 8.0	F C	209	21.1 50	4.5 .37 18	16 .70 33	--	.0	91 1.49 71	--	6.7 .19 9	3.1 .05	+10	--	71 4	0.8
04/29/71 0830	5121 5050	305/27E-24P01	M 7.8	F C	357	45.2 63	3.6 .31 9	24 1.04 29	--	.0	141 2.31 65	--	15 .42 12	10.0 .16	+10	--	128 13	0.9

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
					Ca	Mg	Na	K	CO ₃	HCO ₃	<04	CL	NO ₃	Br	F	TDS SUM	TCH	SAR	
305/24E-01E01 M																			
09/30/71	S121	75.0F			80	18	81	--	.0	198	--	115	12.0	.20	--		274		
1050	S050	23.9C	7.6	920	3.99	1.44	3.52		.00	3.25		3.24	.19	--		111	2.1		
					43	16	38			35		35	2						
305/24E-03G01 M																			
04/27/71	S121				181	50	180	--	.0	322	--	314	69.0	.40	--		680		
1350	S050		7.7	2050	9.03	4.16	7.83		.00	5.28		8.05	1.11	--		396	3.0		
					44	20	38			26		43	5						
305/28E-05E01 M																			
09/30/71	S121	66.0F			47	7.0	25	--	.0	149	--	26	5.6	.20	--		145		
1330	S050	16.9C	7.7	406	2.35	.58	1.09		.00	2.44		.73	.09	--		25	0.9		
					58	14	27			60		18	2						
305/28E-07G01 M																			
09/30/71	S121	75.0F			38	5.9	23	--	.0	133	--	17	8.5	.10	--		120		
1100	S050	23.9C	7.6	342	1.90	.49	1.00		.00	2.18		.48	.14	--		11	0.9		
					56	14	29			64		14	4						
305/28E-09J01 M																			
09/30/71	S121	64.0F			59	29	109	--	.0	378	--	72	68.0	.60	--		264		
0945	S050	17.8C	7.5	1070	2.94	2.38	4.74		.00	6.20		2.03	1.10	--		44	2.9		
					27	22	44			58		19	10						
305/24E-10J01 M																			
09/30/71	S121	67.0F			70	6.8	58	--	.0	183	--	69	8.3	.10	--		202		
1005	S050	19.4C	7.7	684	3.49	.56	2.52		.00	3.00		1.45	.14	--		53	1.8		
					51	8	37			44		29	2						
305/28E-17H01 M																			
09/30/71	S121	66.0F			72	17	63	--	.0	218	--	79	49.0	.20	--		250		
0910	S050	14.9C	7.8	762	3.59	1.40	2.74		.00	3.54		2.23	.79	--		73	1.7		
					47	18	36			46		29	10						
305/28E-21W02 M																			
09/30/71	S121	64.0F			91	45	136	--	.0	451	--	100	.4	.70	--		412		
0855	S050	17.8C	7.7	1300	4.54	3.70	5.92		.00	7.39		2.82	.01	--		43	2.9		
					35	28	46			57		22							
305/28E-25A02 M																			
09/30/71	S121	76.0F			58	11	54	--	.0	236	--	53	1.8	.20	--		191		
0910	S050	24.4C	7.8	611	2.89	.90	2.35		.00	3.87		1.49	.03	--		4	1.7		
					47	15	38			63		24							
305/28E-26A01 M																			
04/27/71	S121				45	10	52	--	.0	223	--	27	1.4	.20	--		156		
0920	S050		8.0	516	2.25	.87	2.26		.00	3.65		.76	.02	--		27	1.8		
					44	17	44			71		15							
305/28E-28H01 M																			
04/27/71	S121				104	28	128	--	.0	432	--	87	5.5	.60	--		378		
0955	S050		7.7	1210	5.19	2.36	5.57		.00	7.08		2.45	.09	--		24	2.9		
					43	20	46			59		20	1						
305/28E-28H01 M																			
09/30/71	S121	64.0F			102	29	126	--	.0	436	--	90	4.2	.70	--		374		
0845	S050	17.8C	7.6	1210	5.09	2.38	5.48		.00	7.15		2.54	.07	--		16	2.8		
					42	20	45			59		21	1						
305/24E-04E02 M																			
12/08/70	S050	62 F	7.3	840	70	16	84	--	.0	316	--	50	12.0	.30	.3		263		
	S050	17 C	7.6	878	3.94	1.32	3.65		.00	5.18		1.41	.19	--		4	2.3		
					45	15	42			59		16	2						
305/24E-04E03 M																			
12/08/70	S050	60 F	7.3	3000	8.0	2.4	704	--	.0	230	--	281	163	.20	.3		30		
	S050	14 C	8.1	3240	.40	.20	30.62		.00	3.77		8.12	2.63	--		159	56.1		
					1	1	95			12		25	8						
305/24E-04F02 M																			
12/09/70	S050	68 F	7.6	750	41	7.2	109	--	.0	330	--	61	.2	.30	.2		132		
	S050	20 C	8.0	723	2.05	.59	4.74		.00	5.41		1.72	.00	--		139	4.1		
					28	8	68			75		24							
305/24E-04L01 M																			
12/08/70	S050	76 F	7.3	580	37	18	63	--	.0	282	--	24	1.4	.20	.3		162		
	S050	24 C	7.8	570	1.85	1.39	2.74		.00	4.42		.48	.02	--		69	2.2		
					32	24	48			81		12							
305/24E-05J01 M																			
12/08/70	S050	59 F	7.4		283	69	165	--	.0	194	--	261	242	.20	.4		991		
	S050	15 C	8.0	2360	14.12	5.60	7.19		.00	3.16		7.36	3.90	--		832	2.3		
					60	24	30			13		31	17						
305/24E-04C01 M																			
12/09/70	S050	56 F	7.4	1500	179	41	89	--	.0	160	--	255	141	.20	.3		618		
	S050	13 C	7.9	1610	6.93	3.42	3.87		.00	2.62		7.14	2.27	--		497	1.6		
					55	21	24			16		45	1						

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER Loc	TEMP	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENTI			MILLIGRAMS PER LITER						
				CA	Mg	NA	K	CO3	HCO3	SO4	CL	NO3	H	F	TDS SUM	TH NCM	SAR
12/04/70	5050	M	53 F 7.1 1200 12 C 4.0 1160	125	31	69	--	.0	244	--	156	74.0	.40	.2		440	
				6.24	2.56	3.00		.00	4.00	4.40	1.19	--	--	240	1.4		
12/08/70	5050	M	67 F 7.3 950 19 C 6.2 889	89	27	68	--	.0	311	--	42	20.0	.30	.4		334	
				4.44	2.24	2.96		.00	5.10	1.18	.32	--	--	79	1.6		
04/09/71	5050	M	7.9 8540 31.29	627	57	1500	--	.0	136	--	1150	.1	--	--		1800	
				37	4.64	65.25		.00	2.23	32.43	.00	--	--	1689	15.4		
04/09/71	5050	M	7.9 3640 32.73	656	19	342	--	.0	99	--	295	.0	--	--		1720	
				85	1.64	14.88		.00	1.62	8.32	.00	--	--	1639	3.6		
04/09/71	5050	M	7.4 1090	21	4.0	200	--	.0	172	--	51	.0	--	--		69	
				10	.33	8.70		.00	2.82	1.44	.00	--	--	72	10.5		
04/09/71	5050	M	7.4 12800 27.10	543	171	2450	--	.0	137	--	2190	83.0	--	--		2060	
				21	14.07	106.58		.00	2.25	61.76	1.34	--	--	1948	23.5		
04/09/71	5050	M	7.2 40500 42.27	847	1444	8740	--	.0	980	--	13800	.2	--	--		8060	
				10	29	94		.00	16.06	389.16	.00	--	--	7257	42.4		
04/09/71	5050	M	7.5 11200 24.60	493	391	1970	--	.0	853	--	1520	.2	--	--		2840	
				22	32.16	85.70		.00	13.98	42.86	.00	--	--	2141	16.1		
04/09/71	5050	M	8.0 19800 22.70	455	404	4750	--	.0	240	--	2270	69.0	--	--		2820	
				11	33.65	206.63		.00	3.93	64.01	1.11	--	--	2623	38.9		
04/09/71	5050	M	6.9 31400 69.86	1400	1087	5940	--	.0	779	--	11000	1.8	--	--		7970	
				22	28	81		.00	12.77	310.20	.03	--	--	7331	29.0		
04/09/71	5050	M	7.9 5940 27.99	561	116	828	--	.0	111	--	767	.0	--	--		1880	
				47	9.57	36.02		.00	1.82	21.63	.00	--	--	1788	8.3		
04/08/71	5050	M	7.1 20200 41.77	837	797	3890	--	.0	722	--	5900	12.0	--	--		5370	
				21	65.55	169.22		.00	11.83	166.38	.19	--	--	4778	23.1		
04/08/71	5050	M	7.3 15500 35.13	704	591	2900	--	.0	1310	--	3240	24.0	--	--		4190	
				23	48.60	126.15		.00	21.47	91.37	.39	--	--	3115	19.5		
04/08/71	5050	M	7.1 29400 58.38	1170	1015	6410	--	.0	1510	--	4790	.6	--	--		7100	
				20	83.51	278.84		.00	24.75	276.08	.01	--	--	5862	33.1		
04/08/71	5050	M	7.5 11400 40.40	970	254	1710	--	.0	174	--	2850	30.0	--	--		3470	
				42	20.94	74.39		.00	2.85	80.37	.48	--	--	3327	12.6		
04/24/71	5121 1365	M	9.0 324	1.4	1.3	67	--	10	78	--	16	.1	.30	--		9	
				2	.07	1.1	2.91		.33	1.28	.45	.00	--	72	9.8		
04/27/71	5121 1450	M	7.6 499	58	10	30	--	.0	202	--	24	12.0	.20	--		189	
				58	18	26		.00	3.31	.68	.19	--	--	23	1.0		
04/27/71	5121 1430	M	7.3 568	72	10	34	--	.0	223	--	24	6.4	.20	--		221	
				63	14	26		.00	3.65	.68	.10	--	--	38	1.0		

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD		MINERAL CONSTITUENTS					MILLIGRAMS PER LITER					MILLIEQUIVALENTS PER LITER					
			LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	H	F	105	TH	SAK		
04/27/71 1410	5121 5050		315/27E-05401	M	7.5	455	57 2.84 62	6.7 .55 12	29 1.22 27	--	.0	195 3.20 70	--	14 .42 10	4.2 .07 2	.20	--	170 10	0.9	
04/27/71 1400	5121 5050		315/27E-06802	M	8.0	279	29 1.45 52	1.4 .12 4	27 1.17 42	--	.0	124 2.03 73	--	9.6 .27 10	3.8 .06 2	.10	--	78 23	1.3	
04/27/71 1435	5121 5050		315/27E-10001	M	7.6	620	76 3.79 61	10 .88 14	40 1.74 28	--	.0	251 4.11 66	--	26 .73 12	5.6 .09 1	.20	--	234 28	1.1	
04/27/71 1330	5121 5050		315/27E-15L01	M	7.6	601	76 3.79 63	8.6 .71 12	40 1.74 29	--	.0	238 3.90 65	--	31 .87 14	4.7 .08 1	.20	--	225 30	1.2	
04/28/71 1210	5121 5050		315/27E-31C01	M	7.9	314	13 .65 21	1.3 .11 4	53 2.31 74	--	.0	114 1.87 60	--	14 .39 12	.1 .00	.10	--	38 56	3.8	
04/28/71 1200	5121 5050		315/27E-31J01	M	7.7	826	52 2.59 31	11 .92 11	109 4.74 57	--	.0	178 2.92 35	--	38 1.07 13	.4 .01	.20	--	176 30	3.6	
04/27/71 1045	5121 5050		315/28E-10A01	M	7.8	576	55 2.74 48	10 .90 16	52 2.26 39	--	.0	214 3.51 61	--	32 .90 16	3.3 .05 1	.20	--	182 7	1.7	
04/27/71 1030	5121 5050		315/28E-14C01	M	7.8	913	85 4.24 46	9.9 .81 9	90 3.92 43	--	.0	183 3.00 33	--	91 2.57 28	7.3 .12 1	.40	--	253 103	2.5	
04/27/71 1225	5121 5050		315/28E-30W01	M	8.0	411	33 1.65 40	2.6 .21 5	50 2.18 53	--	.0	170 2.79 68	--	19 .54 13	.4 .01	.10	--	93 47	2.3	
04/27/71 1230	5121 5050		315/28E-31001	M	7.9	366	16 .80 22	7.1 .58 16	48 2.09 57	--	.0	125 2.05 56	--	25 .71 19	.0 .00	.10	--	69 34	2.5	
04/27/71 1235	5121 5050		315/28E-31N01	M	7.9	374	25 1.25 33	4.0 .33 9	45 1.96 52	--	.0	124 2.03 54	--	20 .56 15	.1 .00	.20	--	79 23	2.2	
04/27/71 1100	5121 5050		315/28E-36A01	M	8.2	277	10 .50 18	3.2 .26 9	41 1.78 64	--	.0	102 1.67 60	--	14 .39 14	1.2 .02 1	.10	--	38 46	2.9	
05/24/71 5803	5119 5803		315/29E-23E01	M	9.7	286	1.2 .06 2	.2 .02 1	66 2.88 97	.6 .02 1	31 1.04 35	31 .51 17	12 .26 9	41 1.16 39	1.7 .03	--	1.6 170	172 74	4 14.7	
04/28/71 1105	5121 5050		325/26E-02L01	M	8.0	610	43 2.15 35	2.8 .23 3	78 3.39 56	--	.0	122 2.00 33	--	20 .56 9	1.1 .02	.50	--	119 19	3.1	
04/28/71 1045	5121 5050		325/26E-03L01	M	7.8	918	105 5.24 57	4.8 .39 4	86 3.74 41	--	.0	105 1.72 19	--	25 .71 8	2.2 .04	.50	--	262 196	2.2	
04/29/71 1030	5121 5050		325/26E-04G01	M	7.9	682	51 2.54 37	2.3 .19 3	87 3.78 55	--	.0	102 1.67 24	--	8.7 .19 3	1.4 .02	.60	--	137 53	3.2	
04/29/71 1120	5121 5050		325/26E-10W01	M	7.7	1200	119 5.94 49	2.6 .21 2	137 5.96 50	--	.0	76 1.25 10	--	8.7 .25 2	.1 .00	.80	--	308 245	3.4	
06/03/71 1000	5121 5050		325/26E-20G01	M	7.7	2150	331 16.52 64	21 1.73 7	173 7.53 29	6.0 .15 1	.0 .00	79 1.29 5	1160 24.15 92	29 .22 3	3.1 .05	.50	--	1860 1762	911 849	2.5

TABLE E-2

TRACE MINERAL ANALYSES OF GROUND WATER

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

5000	U. S. Geological Survey
5050	Department of Water Resources
5060	Department of Public Health
5802	Twining Laboratory
5803	Hornkohl Laboratory

Chemical Symbols

AL	Aluminum	GA	Gallium
AS	Arsenic	GE	Germanium
BE	Beryllium	PB	Lead
BI	Bismuth	MN	Manganese
CD	Cadmium	HG	Mercury
CR	Chromium	MO	Molybdenum
CO	Cobalt	NI	Nickel
CU	Copper	TI	Titanium
FED	Iron, Dissolved	V	Vanadium
FET	Iron, Total	ZN	Zinc

Abbreviations

M	Milligrams per liter	Y	Less than the amount indicated
U	Micrograms per liter	*	By Atomic Absorption

TABLE E-2

TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAB	AL GE	AS PB	BE MN	BI HG	CD MO	CR NI	CO TI	CU V	FED FET	GA ZN
C1S/10E-19LC1 M	4-02-71	5050		0.00M								
				--								
O2S/10E-11N01 M	4-02-71	5050		0.00M								
				--								
O2S/12E-32P01 M	4-02-71	5050		0.00M								
				--								
O3S/08E-29K01 M	4-01-71	5050		0.00M								
				--								
O3S/09E-23E01 M	4-01-71	5050		0.00M								
				--								
O3S/10E-12L01 M	4-06-71	5050		0.00M								
				--								
O4S/08E-26R01 M	4-07-71	5050		0.00M								
				--								
O4S/09E-21A01 M	4-06-71	5050		0.00M								
				--								
O4S/12E-29J01 M	4-02-71	5050		0.00M								
				--								
O5S/09E-18D01 M	4-01-71	5050		0.02M								
				--								
O5S/11E-06Q01 M	4-07-71	5050		0.00M								
				--								
O5S/11E-22B01 M	4-07-71	5050		0.00M								
				--								
O5S/12E-32Q01 M	4-02-71	5050		0.00M								
				--								
O6S/10E-07D01 M	4-01-71	5050		0.00M								
				--								
O6S/10E-24L01 M	4-01-71	5050		0.00M								
				--								
O6S/12E-21N01 M	4-02-71	5050		0.00M								
				--								
O7S/11E-21P01 M	4-06-71	5050		0.00M								
				--								
O7S/15E-29Q01 M	4-07-71	5050		0.00M								
				--								
O7S/16E-29Q01 M	4-01-71	5050		0.02M								
				--								
O8S/12E-12IX02 M	4-08-71	5050		0.00M								
				--								
O8S/13E-19J01 M	4-07-71	5050		0.00M								
				--								
O8S/16E-28PC1 M	4-01-71	5050		0.00M								
				--								
O9S/13E-17F01 M	4-08-71	5050		0.01M								
				--								
O9S/14E-12R01 M	4-02-71	5050		0.01M								
				--								
O9S/15E-02RC1 M	4-01-71	5050		0.00M								
				--								
O9S/15E-25J03 M	9-08-71	5802			--						0.006M	
					NIL						--	
O9S/16E-30B02 M	9-08-71	5802			--						0.016M	
					NIL						--	
O9S/16E-30B03 M	9-08-71	5802			--						0.008M	
					NIL						--	
O9S/16E-31FC1 M	9-08-71	5802			--						0.006M	
					NIL						--	
O9S/24E-24C03 M	11-01-70	5000	9.1U 0.5U	-- 1.4UY	0.6UY 4.6U	0.3UY 0.5UY	1.4UY 8.0U	1.4UY 0.3UY	1.4UY 0.6UY	1.4UY 0.3UY	4.6U --	5.7UY 5.7UY
O9S/24E-35H01 M	11-01-70	5000	6.0U 0.3UY	-- 1.9U	0.6UY 2.5U	1.7U 0.5UY	1.4UY 0.3UY	1.4UY 1.3U	2.3U 0.6UY	1.4UY 0.7U	4.0U --	5.7UY 1,450U*
1CS/13E-10H01 M	3-31-71	5050		0.00M								
				--								

TABLE E-2 (Continued)
TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAB	AL GE	AS PB	BE MN	BI HG	CD MO	CR NI	CO TI	CU V	FED FET	GA ZN
15S/22E-27K80 M	8-09-71	5050			-- 1.6M						-- 15.3M	
15S/22E-27L80 M	8-09-71	5050			-- 1.4M						-- 15.9M	
15S/22E-27L81 M	8-09-71	5050			-- 1.2M						-- 15.5M	
24S/24E-09Q02 M	8-20-71	5060		0.13M								
	9-15-71	5060		0.14M								
25S/22E-10Q01 M	2-12-71	5803		0.10M	-- 0.00M						-- 0.1M	
25S/22E-27J01 M	3-10-71	5803		0.075M	-- 0.00M						-- 0.1M	
26S/23E-33N01 M	3-05-71	5050		0.03M								
26S/23E-33N02 M	3-05-71	5050		0.02M								
29S/28E-32R01 M	9-30-71	5050		0.00M								
30S/28E-01E01 M	9-30-71	5050		0.00M								
30S/28E-05E01 M	9-30-71	5050		0.00M								
30S/28E-07G01 M	9-30-71	5050		0.00M								
30S/28E-09Q01 M	9-30-71	5050		0.00M								
30S/28E-10Q01 M	9-30-71	5050		0.00M								
30S/28E-17H01 M	9-30-71	5050		0.00M								
30S/28E-21M02 M	9-30-71	5050		0.01M								
30S/28E-25A02 M	9-30-71	5050		0.00M								
30S/28E-28D01 M	9-30-71	5050		0.00M								
30S/29E-04E02 M	12-08-70	5050		0.10M								
	12-08-70	5000	1.4UY 0.3UY	-- 1.4UY	0.6UY 1.4UY	0.3UY --	1.4UY 8.0U	1.4UY 0.3UY	1.4UY 0.6UY	1.4UY 3.4U	5.1U --	5.7UY 5.7UY
30S/29E-04E03 M	12-08-70	5050		0.00M								
30S/29E-04F02 M	12-09-70	5050		0.42M								
30S/29E-04L01 M	12-08-70	5050		0.19M								
30S/29E-05D01 M	12-08-70	5050		0.00M								
30S/29E-08C01 M	12-09-70	5050		0.00M								
	12-09-70	5000	5.7U 0.3UY	-- 1.4UY	0.6UY 1.4UY	0.3UY --	1.4UY 3.4U	1.4UY 0.3UY	1.4UY 0.6UY	1.4UY 2.3U	11U --	5.7UY 3.4U
30S/29E-09L02 M	12-09-70	5050		0.00M								
30S/30E-09P01 M	12-08-70	5050		0.00M								
	12-08-70	5000	1.4UY 0.3UY	-- 1.4UY	0.6UY 1.4UY	0.3UY --	1.4UY 13U	1.4UY 0.5U	1.4UY 0.6UY	1.4UY 5.4U	9.7U --	5.7UY 5.7UY
31S/29E-23E01 M	5-24-71	5803		0.01MY	-- 0.00M						-- 0.1M	

TABLE E-3

MISCELLANEOUS CONSTITUENTS OF GROUND WATER

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

LAB	Laboratory
5000	U. S. Geological Survey
5050	Department of Water Resources
5802	Twining Laboratory
5803	Hornkohl Laboratory
ABS	Methylene Blue Active Substances (as Alkyl Benzene Sulfonate)
NH ₃	Ammonia
NO ₂	Nitrite
CHLO	Pesticides, Chlorinated Hydrocarbons
ORPH	Pesticides, Organic Phosphorus
PO ₄	Phosphates
S	Sulfides

TABLE E-3

MISCELLANEOUS CONSTITUENTS OF GROUND WATER
(In milligrams per liter)

STATE WELL NO.	DATE	LAB	ABS	NH ₃	NO ₂	CHLO*	ORPH*	PO ₄	S
12S/19E-13A01 M	4-12-71	5050				None Detected	None Detected		
18S/28E-14E01S M	1-26-71	5802						0.7	
18S/28E-26L01 M	1-21-71	5802						0.1	
18S/28E-34F01 M	1-21-71	5802						0.5	
25S/22E-10Q01 M	2-12-71	5803		Trace	0.0				0.0
25S/22E-27J01 M	3-10-71	5803		Trace	0.0				0.0
27S/26E-22Q01 M	6-18-71	5803							0.0
27S/26E-27A01 M	6-02-71	5803							0.0
27S/26E-27R01 M	5-11-71	5803							0.0
29S/28E-32R01 M	9-30-71	5050	0.0						
30S/28E-01E01 M	9-30-71	5050	0.0						
30S/28E-05E01 M	9-30-71	5050	0.0						
30S/28E-07G01 M	9-30-71	5050	0.0						
30S/28E-09Q01 M	9-30-71	5050	0.0						
30S/28E-10Q01 M	9-30-71	5050	0.0						
30S/28E-17H01 M	9-30-71	5050	0.0						
30S/28E-21M02 M	9-30-71	5050	0.0						
30S/28E-25A02 M	9-30-71	5050	0.0						
30S/28E-28D01 M	9-30-71	5050	0.0						
31S/29E-23E01 M	5-24-71	5803		Trace					0.0

*When detected, pesticides are reported in parts per billion.



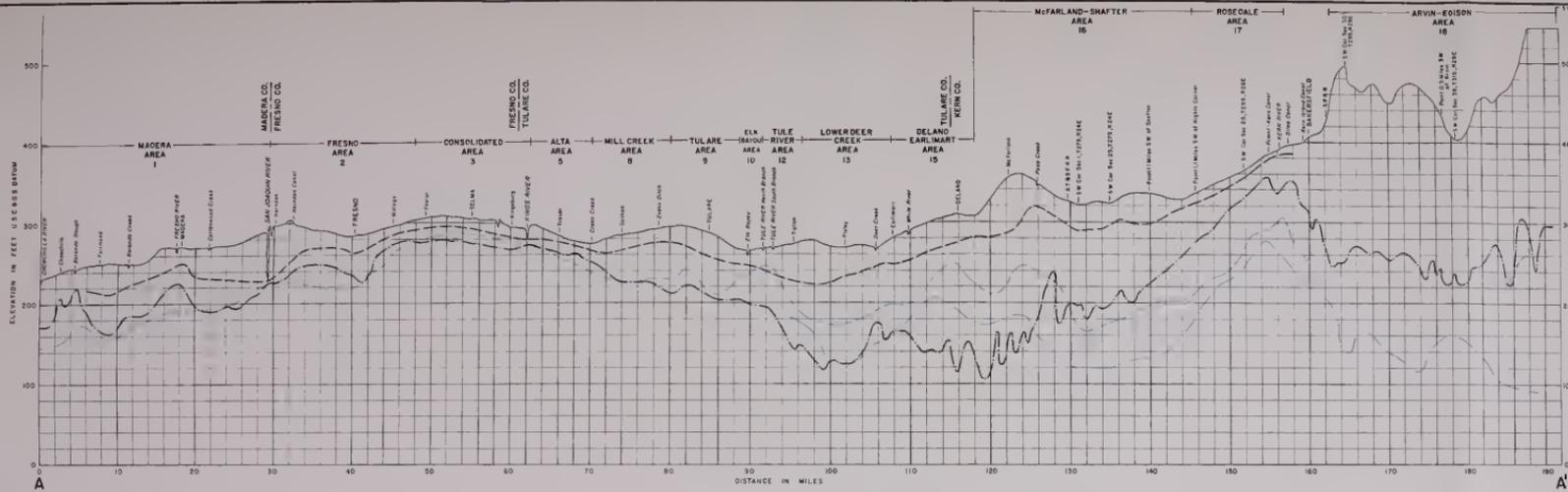


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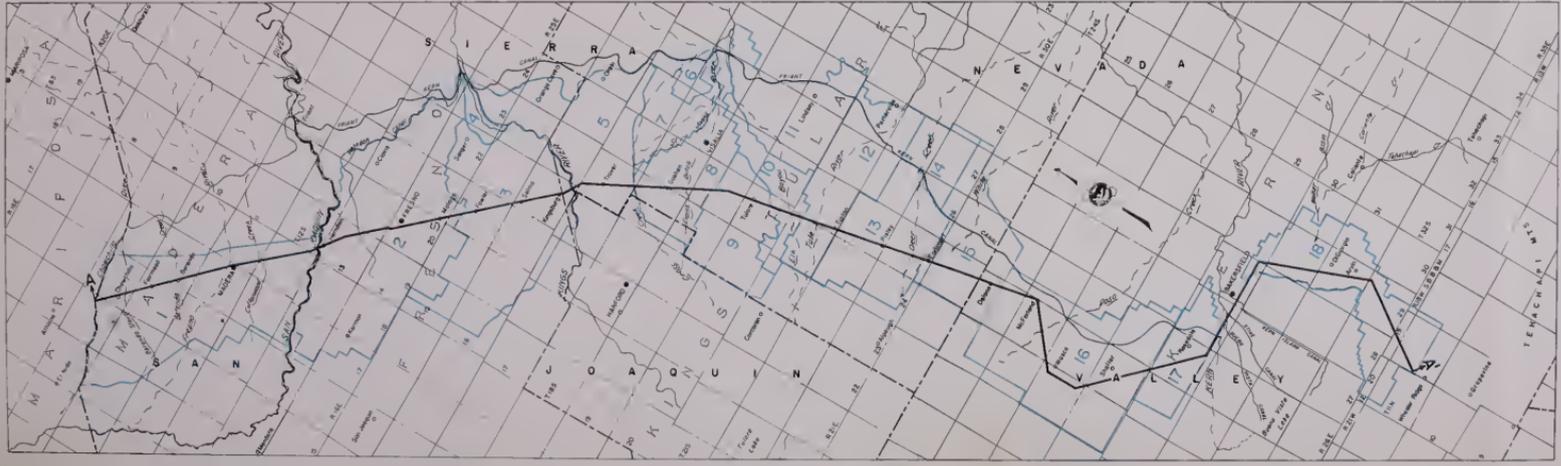
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HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS

1. MADERA
2. FRESNO
3. CONSOLIDATED
4. CENTERVILLE BOTTOMS
5. ALTA
6. FANNODE
7. OUTSIDE FANNODE
8. MILL CREEK
9. TULARE
10. ELK BAYOU
11. LINDSAY-EXETER
12. TULE RIVER
13. LOWER DEER CREEK
14. MIDDLE DEER CREEK
15. DELAND-EARLLANT
16. MCFARLAND-SHAFTER
17. ROSECALE
18. ARVIN-EOSION



- LEGEND
- GROUND WATER AREA BOUNDARIES
 - GROUND WATER LEVEL, FALL 1921
 - GROUND WATER LEVEL, FALL 1951
 - GROUND WATER LEVEL, SPRING 1971, UNCONFINED AQUIFER
 - GROUND WATER LEVEL, SPRING 1971, PRESSURE SURFACE
 - GROUND WATER LEVEL, PROFILE SECTION

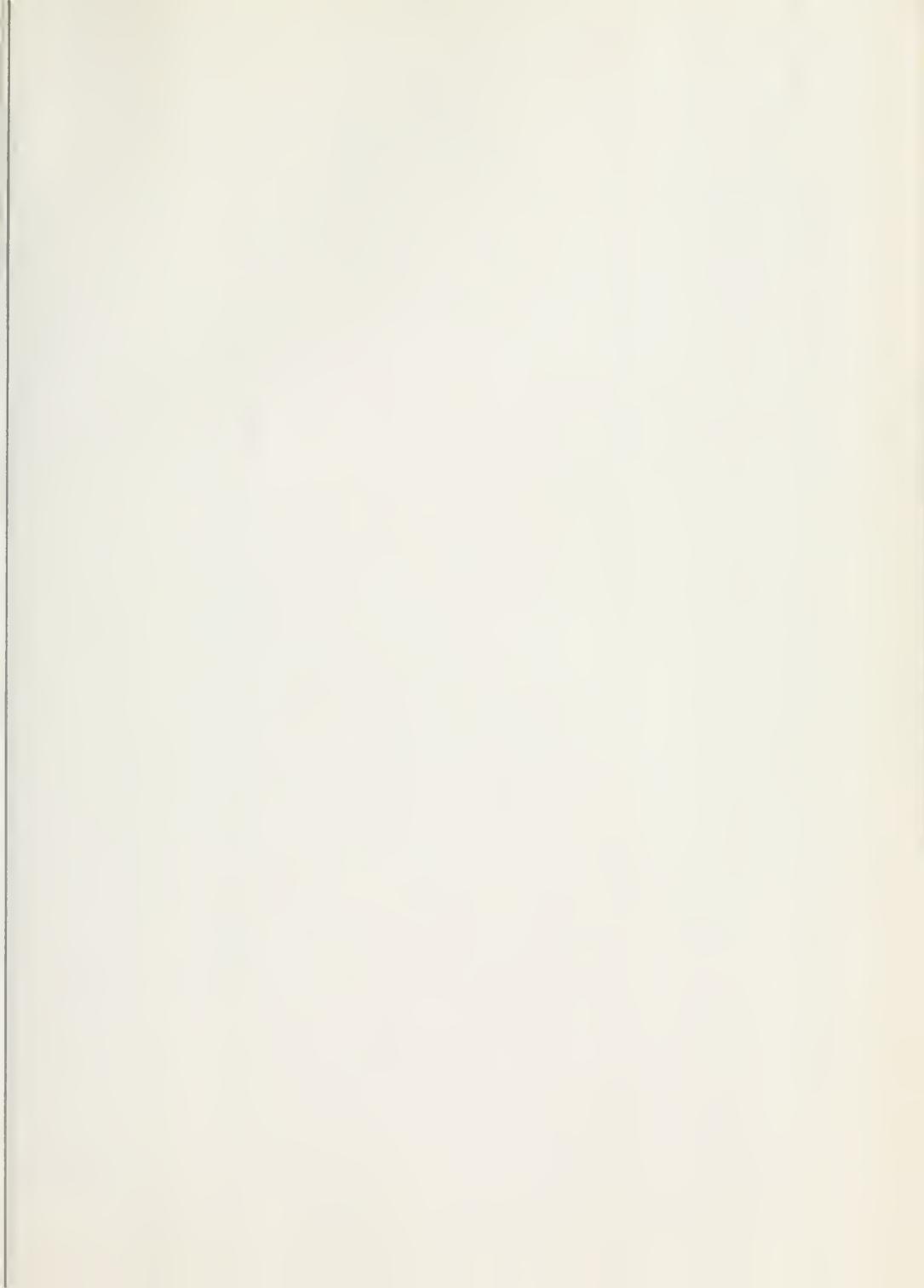
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SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1971

MAP OF SELECTED GROUND WATER AREAS
IN THE SAN JOAQUIN VALLEY
AND
PROFILES ALONG SECTION A-A' SHOWING
GROUND WATER LEVELS IN 1921, 1951 & 1971

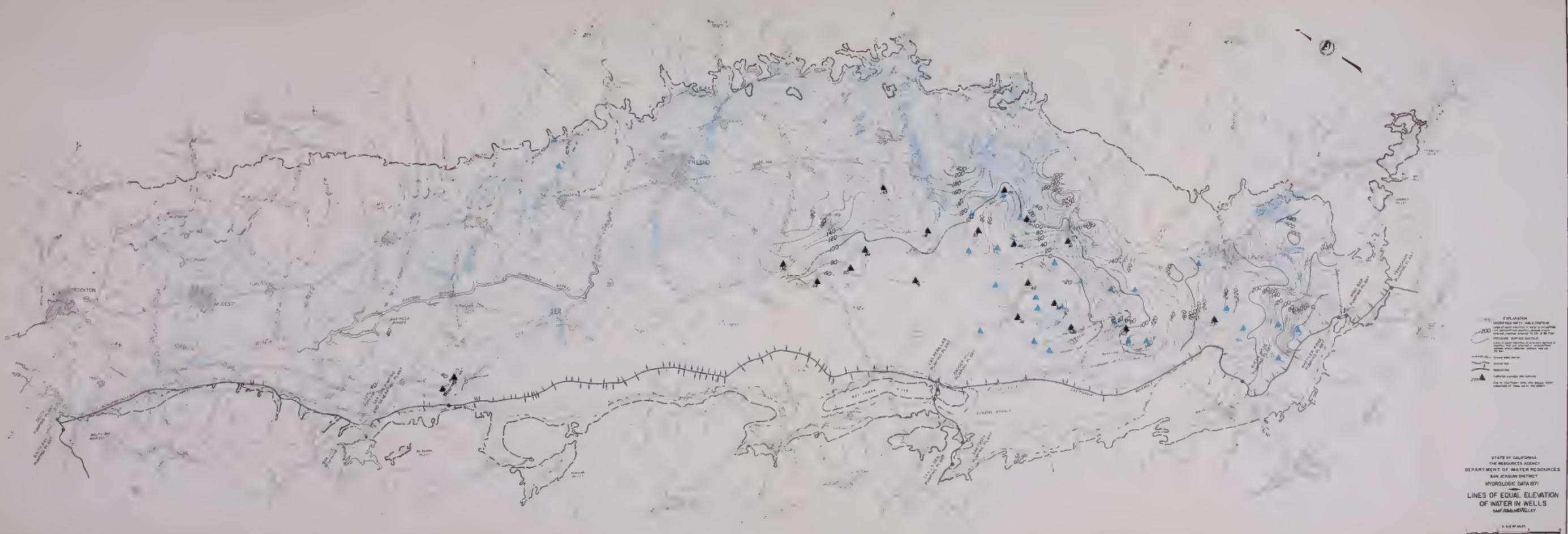
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EXPLANATION

 200
 Line of equal elevation of water in wells at specified date and elevation (e.g., 200 feet)

 200
 MEASURE SURVEY BOUNDARY

 200
 Line of equal elevation of water in wells at specified date and elevation (e.g., 200 feet)

 200
 200

 200
 200

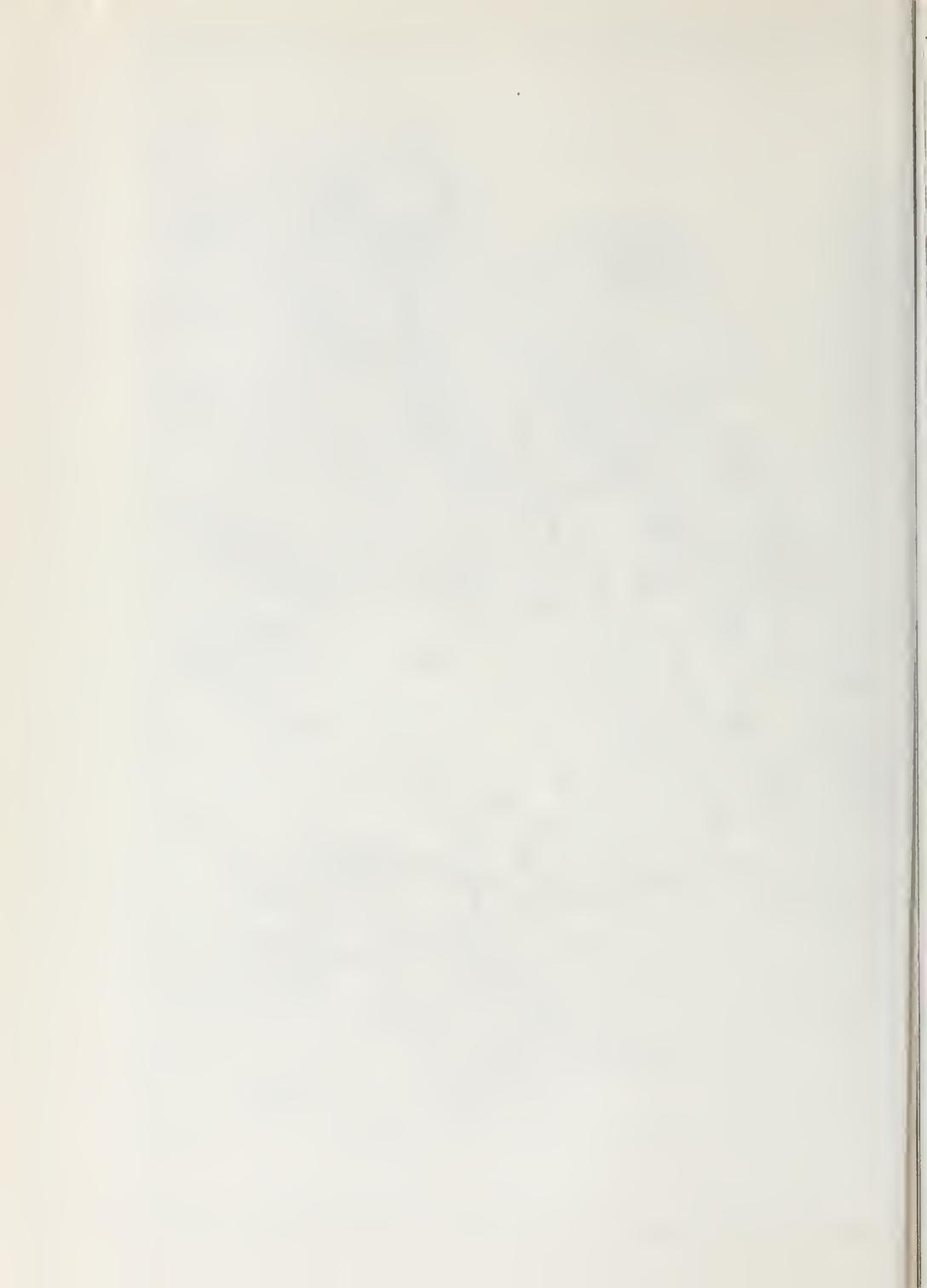
 200
 200

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LINES OF EQUAL ELEVATION OF WATER IN WELLS

SAN JOAQUIN VALLEY

1:50,000





EXPLANATION

- 
200 UNCONFINED WATER-TABLE CONTOUR
 Lines of equal elevation of water in unconfined and semi-confined 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 semi-confined; dashed where inferred; contour interval 20 feet
- 
 Ground water barrier
sh. et. etc. etc.
- 
 Fault line
- 
 Bedrock line
- 
 California aqueduct and tunnels
- 
 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 1970.

STATE OF CALIFORNIA
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 SAN JOAQUIN DISTRICT
 HYDROLOGIC DATA 1971
**LINES OF EQUAL ELEVATION
 OF WATER IN WELLS**
 SAN JOAQUIN VALLEY
 SPRING 1971







EXPLANATION

Observation wells (black triangles) showing water level in feet above datum (1929) at the time of observation. The 200-foot contour line is shown as a dashed line with '200' written along it. The 100-foot contour line is shown as a solid line with '100' written along it. The 50-foot contour line is shown as a dotted line with '50' written along it. The 0-foot contour line is shown as a long-dashed line with '0' written along it. The 10-foot contour line is shown as a short-dashed line with '10' written along it. The 20-foot contour line is shown as a dash-dot line with '20' written along it. The 30-foot contour line is shown as a long-dash-short-dash line with '30' written along it. The 40-foot contour line is shown as a solid line with '40' written along it. The 60-foot contour line is shown as a dotted line with '60' written along it. The 80-foot contour line is shown as a dash-dot-dot line with '80' written along it. The 120-foot contour line is shown as a long-dash-dot-dot line with '120' written along it. The 140-foot contour line is shown as a solid line with '140' written along it. The 160-foot contour line is shown as a dotted line with '160' written along it. The 180-foot contour line is shown as a dash-dot-dot-dot line with '180' written along it. The 200-foot contour line is shown as a long-dash-dot-dot-dot line with '200' written along it.

200-FOOT CONTOUR LINE

100-FOOT CONTOUR LINE

50-FOOT CONTOUR LINE

0-FOOT CONTOUR LINE

10-FOOT CONTOUR LINE

20-FOOT CONTOUR LINE

30-FOOT CONTOUR LINE

40-FOOT CONTOUR LINE

60-FOOT CONTOUR LINE

80-FOOT CONTOUR LINE

120-FOOT CONTOUR LINE

140-FOOT CONTOUR LINE

160-FOOT CONTOUR LINE

180-FOOT CONTOUR LINE

200-FOOT CONTOUR LINE

WELL

Canal

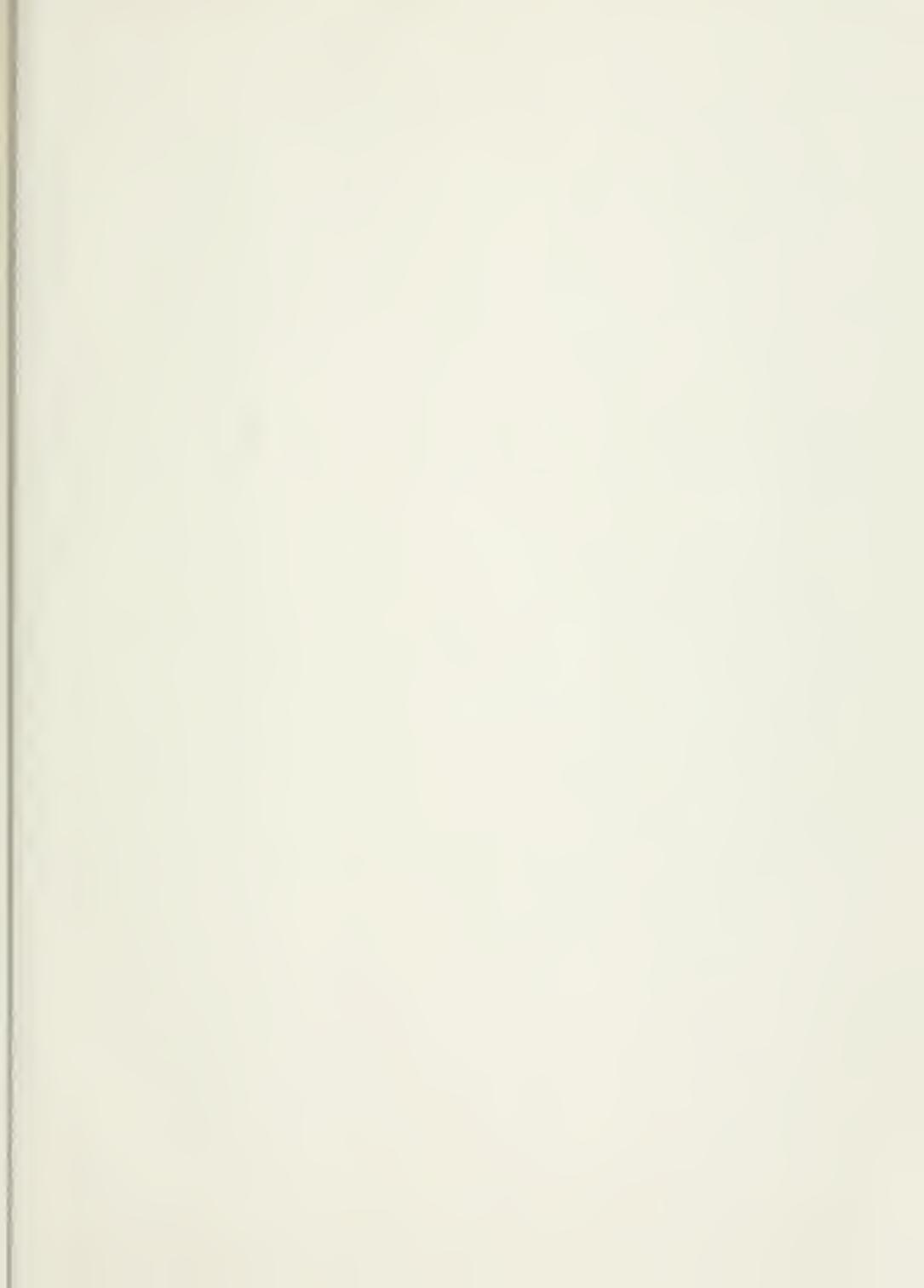
Levee

Other

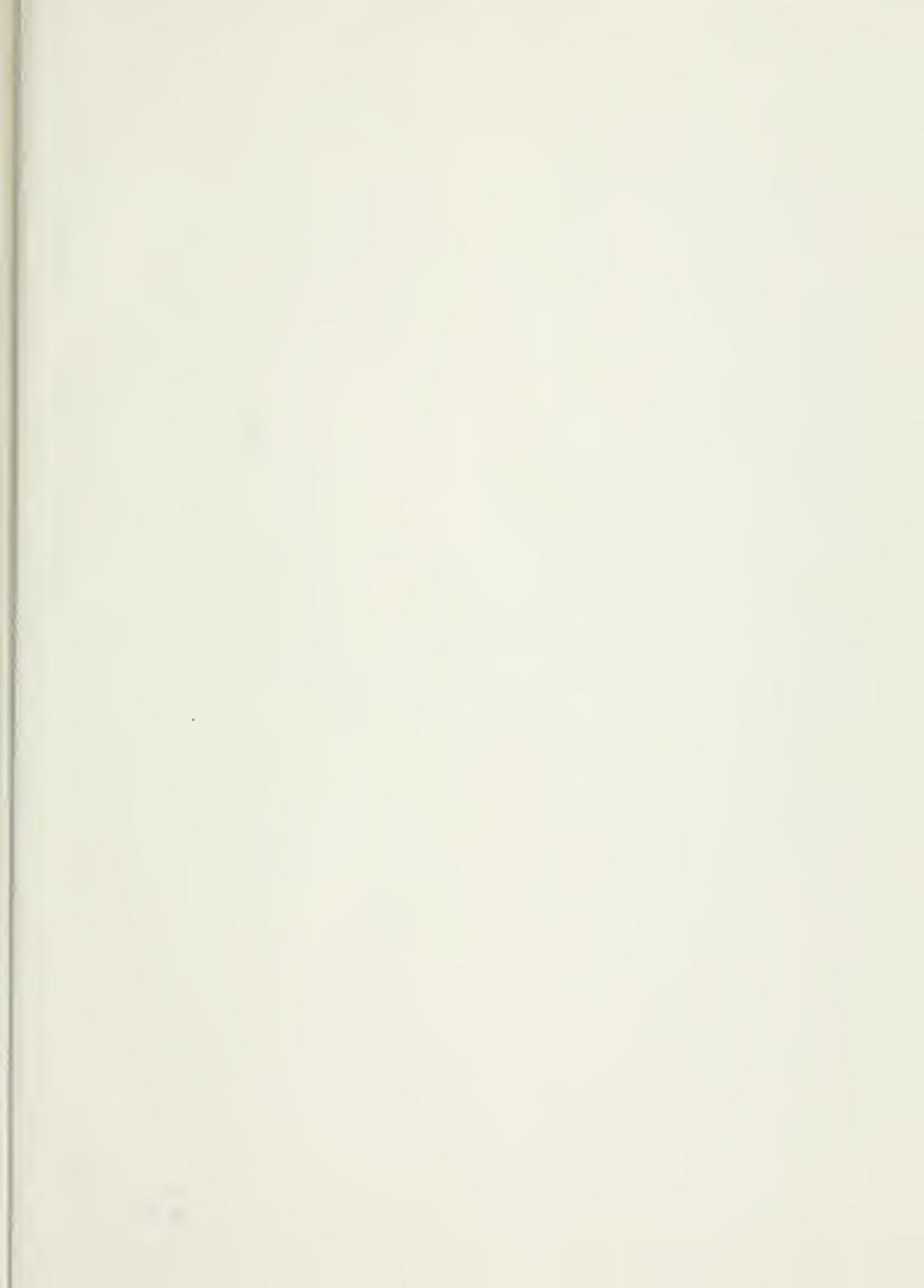
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