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BULLETIN No. 130-69

HYDROLOGIC DATA: 1969

Volume III: CENTRAL COASTAL AREA

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BULLETIN No. 130

HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES

Each Volume Contains

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

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. 130-69 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for 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
The Resources Agency
State of California
January 21, 1971

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT
1 Inch (in)	2.54 Centimeters
1 Foot (ft)	0.3048 Meters
1 Mile (mi)	1.609 Kilometers
1 Acre	0.405 Hectares
1 Square mile (sq.mi.)	2.590 Square kilometers
1 U. S. gallon (gal)	3.785 Liters
1 Acre-foot (ac.ft.)	1,233.5 Cubic meters
1 U. S. gallon per minute (gpm)	0.0631 Liters per second
1 Cubic foot per second (cfs)	1.7 Cubic meters per minute
1 Part per million (ppm)	1 Milligram per liter (mg/l)
1 Part per billion (ppb)	1 Microgram per liter (ug/l)
1 Part per trillion (ppt)	1 Nanogram per liter (ng/l)
1 Equivalent per million (epm)	1 Milliequivalent per liter (me/l)
Degrees Fahrenheit (°F)	5/9 (°F-32) Degrees Celsius (°C)

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U. S. Soil Conservation Service
U. S. Weather Bureau

State

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Department of Veterans Affairs
Division of Highways
Division of Forestry
University of California, Agricultural Extension Service
North Coastal Water Quality Control Board
San Francisco Bay Regional Water Quality Control Board
Central Coastal Regional Water Quality Control Board
State Water Resources Control Board

Local

Alameda County Flood Control and Water Conservation District
Alameda County Water District
Marin County
Mendocino County
Monterey County Flood Control and Water Conservation District
Napa County
San Benito County
San Luis Obispo County Flood Control and Water Conservation District
Santa Clara County Flood Control and Water District
Santa Clara Valley Water Conservation District
Santa Cruz County, Department of Public Works
Solano Irrigation District
Sonoma County Flood Control and Water Conservation District
South Santa Clara Valley Water Conservation District

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The Resources Agency
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ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, surface and ground water quality, and waste water in the Central Coastal Area for the 1968-69 water year. Figures show the location of climatological observation stations and ground water basins; the average depth to water in wells; the location of surface water measurement and surface water quality stations; the daily mean specific conductance of Alameda Creek near Niles; the location of waste dischargers; and major drainage and hydrographic unit boundaries.

Appendix A

CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation, wind movement, and evaporation data for the Central Coastal Area from July 1, 1968, to September 30, 1969. Seventeen cooperating agencies and 25 local observers supplied the data. Detailed daily and hourly data not published here are available in the files of the Department of Water Resources.

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

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

Central Coastal Area

D0 Santa Cruz Coast
D1 Pajaro-San Benito Rivers
D2 Lower Salinas River
D3 Upper Salinas River
D4 Monterey Coast
T9 Upper Salinas River

San Francisco Bay Area

E0 San Francisco Bay
E1 Coast-Marin
E2 Marin-Sonoma
E3 Napa-Solano
E4 East Bay
E5 Alameda Creek
E6 Santa Clara Valley
E7 Bayside-San Mateo
E8 Coast-San Mateo

North Coastal Area

F8 Mendocino Coast
F9 Russian River

FIGURE A-1 SHEET 1

CLIMATOLOGICAL OBSERVATION STATIONS 1968-69

CLIMATOLOGICAL OBSERVATION STATIONS 1968-69

FIGURE A-1 SHEET 3

CLIMATOLOGICAL OBSERVATION STATIONS 1968-69

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS FOR 1968-69

An explanation of the column headings and the code symbols used in connection with the climatological station listing follows:

<u>40-Acre Tract</u> - This denotes the location of the station within the section in which it is located. The letter code is derived from the diagram to the right.

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

<u>Base and Meridian</u> - The code for this column is as follows:

M - Mount Diablo Base and Meridian

<u>Cooperator Number</u> - This number is assigned from the following list:

000 Private Cooperator
403 Sonoma County Flood Control and Water Conservation District
407 San Benito County
411 Marin County
413 Marin Municipal Water District
414 Santa Clara Valley Water Conservation District
418 Vallejo Water Department
426 Santa Clara County Flood Control and Water District
801 Pomology Department, University of California, Davis
804 California Department of Beaches and Parks
806 California Department of Water Resources
808 California Division of Forestry
809 California Division of Highways
900 U. S. Weather Bureau
901 U. S. Corps of Engineers, San Francisco District
907 State Climatologist (unpublished U. S. Weather Bureau)
909 U. S. Soil Conservation Service

<u>Cooperator's Index Number</u> - This is the number assigned to the station by the agency responsible for or handling the records of the station. The U. S. Weather Bureau number is only shown in this column when it differs from the alpha order number.

<u>County</u> - This is a standard code for California counties and adjacent areas as shown below:

Alameda	60	San Francisco	80
Contra Costa	07	San Luis Obispo	40
Marin	21	San Mateo	41
Mendocino	23	Santa Clara	43
Monterey	27	Santa Cruz	44
Napa	28	Solano	48
San Benito	35	Sonoma	49

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1968-69

Station Number	Station Name	Elevation (in Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
E6 0053	ALAMITOS PERCOLATION POND	185	SEC 09	T08S	R01E	F	M	37 15 18	121 52 18	414		1959			43
E4 0064	ALAMO 1 N	410	SEC 12	T01S	R02W	C	M	37 52 00	122 02 00	900		1957			07
E6 0125	ALMADEN RESERVOIR	640	SEC 11	T09S	R01E	E	M	37 10 00	121 50 00	414		1936			43
F9 0135	ALPINE DAM	680	SEC 10	T01N	R07W	R	M	37 56 30	122 38 18	413		1925			21
E3 0212	ANGWIN PACIFIC UNION COL	1815	SEC 05	T08N	R05W	K	M	38 34 17	122 26 05	900		1939			28
D2 0322	ARROYO SECO	800	SEC 36	T19S	R04E		M	36 14 00	121 29 00	900		1931			27
T9 0360-01	ATASCADERO MAINT STATION	940	SEC 26	T28S	R12E	R	M	35 27 30	120 38 24	809	L145	1948			40
E3 0372	ATLAS ROAD	1660	SEC 25	T07N	R04W	G	M	38 25 36	122 14 53	900		1940			28
D0 0677	BEN LOMOND NO. 3	720	SEC 10	T10S	R01W		M	37 05 00	122 04 00	900		1967			44
E4 0693	BERKELEY	299		T01S	R03W		M	37 52 00	122 15 00	900		1887			60
D4 0790	BIG SUR STATE PARK	235	SEC 30	T19S	R02E		M	36 15 00	121 47 00	900		1914			27
E6 0850	BLACK MOUNTAIN 2 SW	2331	SEC 36	T07S	R03W		M	37 18 00	122 10 00	900		1943			43
F9 0876	BLAKES LANDING	40	SEC 13	T04N	R01W	L	M	38 11 42	122 55 00	000		1956			21
F9 0969	BON TEMPE DAM	723	SEC 11	T01N	R07W	D	M	37 57 24	122 36 36	413		1958			21
F8 0973	BOONVILLE H M S	342	SEC 02	T13N	R14W	F	M	39 00 54	123 22 20	900	PN0971	1936			23
D0 1005	BOULDER CREEK LOCATELLI RCH	2175	SEC 16	T09S	R03W	Q	M	37 08 32	122 11 43	900		1943			44
D3 1034	BRADLEY	540	SEC 08	T24S	R11E		M	35 52 00	120 48 00	900		1946			27
D3 1142	BRYSON	925	SEC 34	T24S	R08E		M	35 48 00	121 05 00	900		1946			27
D1 1170	BUENA VISTA	1640	SEC 27	T13S	R07E	R	M	36 46 00	121 11 00	900		1932			35
E7 1206	BURLINGAME	10		T04S	R05W		M	37 35 00	122 21 00	900		1946			41
E4 1216	BURTON RANCH	530	SEC 09	T01S	R02W		M	37 52 00	122 05 00	900		1955			07
D1 1247	BUZZARD LAGOON	1275	SEC 26	T10S	R01E	M	M	37 02 00	121 50 00	000		1959			44
E5 1281	CALAVERAS RESERVOIR	805	SEC 24	T05S	R01E		M	37 29 12	121 49 06	900		1874			60
E6 1285	CALERO RESERVOIR	500	SEC 04	T09S	R02E	E	M	37 10 48	121 45 48	414		1958			43
E3 1312	CALISTOGA	364	SEC 36	T09N	R07W	K	M	38 35 05	122 34 59	900		1873			28
E6 1341-10	CAMBRIAN PARK	24	SEC 12	T08S	R01W	C	M	37 15 12	121 55 24	426					43
E6 1377-01	CAMPBELL WATER COMPANY	192	SEC 35	T01S	R01W	C	M	37 17 00	121 57 00	000		1897		09	43
D4 1534	CARMEL VALLEY	425	SEC 03	T17S	R02E		M	36 29 00	121 44 00	900		1957			27
E3 1537	CARNEROS VALLEY	300	SEC 13	T05N	R05W	G	M	38 17 00	121 21 30	901		1931			28
F9 1602	CAZADERO	1040	SEC 13	T08N	R12W	R	M	38 31 48	123 07 31	900		1939			49
D1 1739	CHITTENDEN PASS	125	SEC 12	T12S	R03E		M	36 54 00	121 36 00	900		1945			44
D1 1739-01	CHITTENDEN	104	SEC 11	T12S	R03E	K	M	36 54 08	121 36 17	909		1960			44
T9 1743	CHOLAME ALLEY RANCH	1975	SEC 12	T26S	R16E		M	35 41 00	120 12 00	900		1925			40
D1 1766	CIENEGA	900	SEC 18	T14S	R06E	B	M	36 42 54	121 20 48	407		1950			35
F9 1838	CLOVERDALE 3 SSE	320	SEC 29	T11N	R01W		M	38 46 00	122 59 00	900		1950			49
F8 1840	CLOVERDALE 11 W	1820	SEC 17	T11N	R12W		M	38 46 00	123 13 00	900		1939			49
E3 1919	COLLINSVILLE	34	SEC 22	T03N	R01E	F	M	38 05 26	121 51 17	000		1946			48
E4 1962	CONCORD 3 E	200		T01N	R01W		M	37 58 00	121 59 00	900		1954			07
D0 2048	CORRALITOS	260	SEC 12	T11S	R01E		M	36 59 00	121 48 00	900		1958			44
F9 2105	COYOTE DAM	720	SEC 34	T16N	R12W	E	M	39 12 00	123 11 00	901		1960			23
E6 2109	COYOTE RESERVOIR	800	SEC 09	T10S	R04E	C	M	37 05 06	121 32 24	414		1938			43
D0 2159	CREST RANCH	2640	SEC 06	T10S	R02W	N	M	37 05 06	122 08 00	000		1948			44
E4 2177	CROCKETT	12	SEC 32	T03N	R03W		M	38 02 00	122 13 00	900		1918			07
D0 2290	DAVENPORT	273	SEC 32	T10S	R03W	Q	M	37 01 00	122 12 00	900		1910			44
D2 2362	DEL MONTE	46		T15S	R01E		M	36 36 00	121 52 00	900		1911			27
E3 2399-48	DENVERTON 1 S	22	SEC 08	T04N	R01E	F	M	38 12 23	121 53 28	000		1950			48
E3 2580	DUTTONS LANDING	20	SEC 09	T04N	R04W	R	M	38 12 07	122 18 11	900		1955			28
E3 2933	FAIRFIELD	13	SEC 25	T05N	R02W	M	M	38 15 01	122 02 25	900		1940			48
E3 2934	FAIRFIELD FIRE STATION	34	SEC 24	T05N	R02W	N	M	38 15 36	122 02 26	900		1951			48
F8 3161	FORT BRAGG	80	SEC 06	T18N	R17W	N	M	39 26 45	123 48 24	900		1895			23
F8 3164	FORT BRAGG AVIATION	74	SEC 25	T18N	R18W	K	M	39 23 34	123 48 51	900		1940			23
D2 3186	FORT ORD	134					M	36 41 00	121 46 00	900					27
F8 3191	FORT ROSS	116	SEC 30	T08N	R12W	D	M	38 31 00	123 15 00	900		1874			49
D1 3232	FREEDOM 8 NNW	1495	SEC 24	T10S	R01E		M	37 03 00	121 49 00	900		1952			44
D1 3238	FREMONT PEAK	2500	SEC 35	T13S	R04E	F	M	36 45 36	121 29 54	000		1950			35
E5 3387	GERBER RANCH	2140	SEC 36	T06S	R04E	P	M	37 22 00	121 29 12	900		1912			43
F9 3395-07	GEYSERVILLE HOCKING	200	SEC 18	T10N	R09W	J	M	38 43 00	122 53 30	806		1965	1969		49
D1 3417	GILROY	194	SEC 06	T11S	R04E		M	37 00 00	121 34 00	900		1957			43
E6 3419	GILROY 8 NE	1050	SEC 29	T10S	R05E		M	37 02 00	121 27 00	900		1942			43
D1 3422	GILROY 14 ENE	1350	SEC 05	T10S	R06E		M	37 06 00	121 20 00	900		1940			43
D2 3502	GONZALES 9 ENE	2350	SEC 15	T16S	R06E		M	36 33 00	121 18 00	900		1943			35
F9 3577	GRATON	200	SEC 21	T07N	R09W	P	M	38 25 51	122 51 49	000		1928			49
F9 3578	GRATON 1 W	210		T07N	R09W		M	38 26 00	122 53 00	900		1896	1968		49
D2 3591	GREENFIELD BAKER	280		T18S	R07E		M	36 19 24	121 14 36	901		1958			27
E3 3612-01	GREEN VALLEY	414	SEC 14	T05N	R03W	D	M	38 17 00	122 10 00	418		1893		18	48
E3 3651-48	GRIZZLY ISLAND	1	SEC 33	T04N	R01W	A	M	38 09 15	121 58 26	805		1968			48
E6 3681	GUADALUPE RESERVOIR	450	SEC 29	T08S	R01E	Q	M	37 12 00	121 53 00	414		1936			43
F9 3683	GUERNEVILLE	145	SEC 29	T08N	R10W	P	M	38 30 15	122 59 40	900		1939			49
E8 3714	HALF MOON BAY	60	SEC 29	T05S	R05W	P	M	37 27 41	122 26 01	900		1965			41
D2 3722	HAMES VALLEY	725	SEC 32	T23S	R10E		M			000		1963			27

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1968-69

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
E4 3863	HAYWARD 6 ESE	715	SEC 21	T03S	R01W	N	M	37 39 08	121 59 09	900		1940			60
F9 3875	HEALDSBURG	101	SEC 19	T09N	R09W		M	38 37 00	122 50 00	900		1877			49
F9 3878	HEALDSBURG NO. 2	102		T09N	R09W		M	38 37 00	122 50 00	900		1943			49
D1 3925	HERNANDEZ 2 NW	2160	SEC 29	T17S	R10E		M	36 25 00	120 55 00	900		1940			35
D1 3928	HERNANDEZ 7 SE	2765	SEC 06	T19S	R12E		M	36 18 00	120 42 00	900		1940			35
D1 4022	HOLLISTER 1 SW	279		T13S	R05E		M	36 50 00	121 25 00	900		1874			35
D1 4025	HOLLISTER 2	284	SEC 10	T12S	R05E		M	36 51 00	121 24 00	900		1938			35
D1 4035	HOLLISTER 10 ENE	2578	SEC 08	T12S	R07E		M	36 55 00	121 14 00	900		1962			35
F9 4100	HOPLAND LARGO STATION	550		T13N	R12W		M	39 01 00	123 07 00	900		1948	1968		23
F9 4480	KELLOGG	1800	SEC 09	T09N	R07W		M	38 40 00	122 40 00	900		1936			49
E2 4500	KENTFIELD	80	SEC 08	T01N	R06W	Q	M	37 56 47	122 33 02	900		1888			21
F9 4502	KENT LAKE	360	SEC 25	T02N	R08W	D	M	37 59 54	122 42 30	413		1954			21
D2 4555	KING CITY	320	SEC 08	T20S	R08E		M	36 12 00	121 08 00	900		1887			27
F9 4593	KNIGHTS VALLEY	480	SEC 18	T09N	R07W		M	38 37 00	122 40 00	900		1964	1969		49
E4 4633	LAFAYETTE 2 NNE	540		T01N	R02W		M	37 55 00	122 06 00	900		1956			07
F9 4652	LAGUNITAS LAKE	785	SEC 12	T01N	R07W	M	M	37 56 48	122 35 42	413		1881			21
E8 4660	LA HONDA	670	SEC 14	T07S	R04W		M	37 19 00	122 16 00	900		1950			41
E3 4677	LAKE CURRY	386	SEC 19	T06N	R02W	B	M	38 21 18	122 07 18	418		1926		09	28
E6	LAKE ELSMAN	1145	SEC 23	T09S	R01W	J	M	37 07 56	121 55 47	426		1951			43
T9 4767	LA PANZA RANCH	1550	SEC 20	T29S	R17E		M	35 23 00	120 10 00	900		1948			40
E6 4916	LEROY ANDERSON DAM	700	SEC 10	T09S	R03E	K	M	37 09 48	121 37 48	414		1950			43
E6 4922	LEXINGTON RESERVOIR	700	SEC 05	T09S	R01W	J	M	37 10 36	121 59 18	414		1951			43
T9 4963	LINN RANCH	870	SEC 07	T26S	R12E	F	M	35 41 06	120 43 24	000		1925	1968		40
E5 4997	LIVERMORE SEWAGE PLANT	405	SEC 12	T03S	R01E	A	M	37 41 28	121 48 20	000		1961			60
E5 4997	LIVERMORE COUNTY F D	490	SEC 17	T03S	R02E		M	37 40 00	121 46 00	900		1966			60
D3 5017	LOCKWOOD 2 N	1104	SEC 34	T22S	R08E		M	35 58 00	121 05 00	900		1940			27
E6 5123	LOS GATOS	428		T08S	R01W		M	37 13 00	121 59 00	900		1885			43
E6 5123-04	LOS GATOS WRIGHT	1610	SEC 26	T09S	R01W	H	M	37 07 24	121 56 00	000		1947	1968		43
D0 5125	LOS GATOS 4 SW	2215	SEC 01	T09S	R02W		M	37 11 00	122 02 00	900		1957			43
D4 5184	LUCIA WILLOW SPRINGS	360	SEC 05	T24S	R05E		M	35 53 00	121 27 00	900		1941			27
E3 5333	MARE ISLAND NAVY	52		T03N	R03W		M	38 06 00	122 16 12	900		1867			48
E4 5371	MARTINEZ 3 S	225		T02N	R02W		M	37 58 00	122 08 00	900		1941			07
E4 5372	MARTINEZ 3 SSE	280		T02N	R02W		M	37 58 00	122 06 00	900		1956			07
E4 5377	MARTINEZ FIRE STATION	26		T02N	R02W		M	38 01 00	122 08 00	900		1891			07
E2 5647	MILL VALLEY	10	SEC 33	T01N	R06W	B	M	37 53 48	122 31 36	411		1944			21
D2 5795	MONTEREY	335		T15S	R01E		M	36 36 00	121 54 00	900		1878			27
D2 5799	MONTEREY N A L F	162					M	36 36 00	121 52 00	900					
D1 5844	MORGAN HILL 2 E	225		T09S	R03E		M	37 08 00	121 37 00	900		1943			43
E6 5846	MORGAN HILL 6 WSW	660		T09S	R02E		M	37 09 00	121 46 00	900					43
D1 5853	MORGAN HILL S C S	350	SEC 20	T09S	R03E		M	37 08 00	121 39 00	900		1945			43
E4 5915	MOUNT DIABLO NORTH GATE	2070	SEC 02	T01S	R01W	R	M	37 52 07	121 56 05	900		1952			07
E5 5933	MOUNT HAMILTON	4206		T07S	R03E		M	37 20 00	121 39 00	900		1881			43
D1 5973	MOUNT MADONNA	1800	SEC 35	T10S	R02E		M	37 01 00	121 43 00	900		1945			44
D1 5973-11	MOUNT MADONNA COUNTY PARK	1880	SEC 01	T11S	R02E	B	M	37 00 42	121 42 12	909		1937			43
F9 5996	MOUNT TAMALPAIS 2 SW	1480		T01N	R07W		M	37 54 00	122 36 00	900		1959			21
E1 6027	MUIR WOODS	170					M	37 54 00	122 34 00	900		1940			21
T9 6056	NACIMIENTO DAM	770	SEC 15	T25S	R10E		M	35 46 00	120 53 00	900		1957			40
E3 6074	NAPA STATE HOSPITAL	73	SEC 14	T05N	R04W	J	M	38 16 40	122 15 50	900		1877			28
F8 6105	NAVARRO 1 NW	220	SEC 18	T15N	R15W		M	39 09 50	123 33 47	900		1958			23
E5 6144	NEWARK	14	SEC 01	T05S	R02W	Q	M	37 31 18	122 01 43	900		1891			60
F9 6187	NICASIO	200	SEC 28	T03N	R08W	C	M	38 05 00	122 45 00	413					21
E5 6199-10	NILES PINNA	75	SEC 21	T04S	R01W	B	M	37 34 00	121 58 00	000		1962			60
F9 6290	NOVATO 8 WNW	350	SEC 24	T04N	R08W		M	38 08 00	122 43 00	900		1943			21
E2 6290-02	NOVATO FIRE HOUSE	18	SEC 18	T03N	R06W	E	M	38 06 30	122 33 42	411		1957			21
E4 6332-01	OAKLAND 39TH AVENUE		SEC 04	T02S	R03W	B	M	37 47 30	122 11 37	907		1960			60
E4 6333	OAKLAND CITY HALL	40	SEC 35	T01S	R04W	C	M	37 48 00	122 16 00	900		1949			60
E4 6335	OAKLAND WB AIRPORT	3		T02S	R03W		M	37 44 00	122 12 00	900		1939			60
E3 6351	OAKVILLE 1 WNW	165	SEC 21	T07N	R05W	G	M	38 26 46	122 25 07	900		1906			28
E2 6356	OAKVILLE 4 SW NO. 2	1685	SEC 01	T06N	R06W	A	M	38 23 55	122 27 54	900		1963			28
F9 6370	OCCIDENTAL	960	SEC 34	T07N	R10W	D	M	38 24 46	122 57 43	900		1940			49
D1 6610	PAICINES OHRWALL RANCH	950	SEC 12	T14S	R05E		M	36 44 00	121 22 00	900		1924			35
E6 6646	PALO ALTO CITY HALL	43	SEC 01	T06S	R03W	B	M	37 26 43	122 08 22	900		1953			43
D2 6650	PALOMA	1835	SEC 23	T18S	R04E		M	36 21 00	121 30 00	900		1940			27
D3 6703	PARKFIELD	1482	SEC 35	T23S	R14E		M	35 53 00	120 26 00	900		1938			27
D3 6706	PARKFIELD 7 NNW	3590	SEC 21	T22S	R14E	N	M	36 59 46	120 28 26	900		1948	1969		27
T9 6730	PASO ROBLES	700	SEC 33	T26S	R12E		M	35 38 00	120 41 00	900		1887			40
T9 6736	PASO ROBLES 5 NW	1040	SEC 11	T26S	R11E		M	35 41 00	120 45 00	900		1940			40
T9 6742	PASO ROBLES FAA AIRPORT	803	SEC 13	T26S	R12E		M	35 40 00	120 38 00	900		1944			40
E6 6791-43	PENITENCIA RAIN GAGE	255	SEC 23	T06S	R01E	L	M	37 24 00	121 49 54	426					43
E2 6826	PETALUMA FIRE STATION NO. 2	16	SEC 33	T05N	R07W	A	M	38 14 28	122 37 44	900		1871			49

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1968-69

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
E2 6826-01	PETALUMA BURNS	240	SEC 02	T04N	R08W	F	M	38 13 00	122 42 48	901		1959			49
F8 6851-01	PHILO 2 NW	240		T14N	R15W		M	39 05 30	123 28 30	000		1953			23
F8 6851-02	PHILO 4 NW	240	SEC 33	T15N	R15W		M	39 01 00	123 37 00	403					23
F9 6853	PHOENIX LAKE DAM	175	SEC 12	T01N	R07W	M	M	37 57 18	122 34 24	413		1937			21
D2 6926	PINNACLES NATIONAL MONUMENT	1310	SEC 02	T17S	R07E		M	36 29 00	121 11 00	900		1937			35
E5 6991-05	PLEASANTON NURSERY	345	SEC 20	T03S	R01E	C	M	37 40 00	122 53 00	000		1939			60
F8 7009	POINT ARENA	122	SEC 12	T12N	R17W		M	38 55 00	123 42 00	900		1940			23
E4 7070	PORT CHICAGO N A D	50		T02N	R01W		M	38 01 00	122 01 00	900		1946			07
E8 7086	PORTOLA STATE PARK	422	SEC 08	T08S	R03W	Q	M	37 14 42	122 12 42	901		1959			41
F9 7108	POTTER VALLEY 3 SE	1100	SEC 27	T17N	R11W		M	39 18 00	123 04 00	900		1952			23
F9 7109	POTTER VALLEY POWERHOUSE	1014	SEC 06	T17N	R11W		M	39 22 00	123 08 00	900		1911			23
D2 7150	PRIEST VALLEY	2300	SEC 17	T20S	R12E		M	36 11 00	120 42 00	900		1898			27
D1 7190	QUIEN SABE HAY CAMP	1630	SEC 27	T12S	R07E	M	M	36 51 30	121 11 48	000		1949			35
D1 7249	RANCHO QUIEN SABE	1800	SEC 04	T13S	R07E	D	M	36 50 12	121 12 48	000		1931			35
E6 7339	REDWOOD CITY	31		T05S	R03W		M	37 29 00	122 14 00	900		1899			41
F9 7351	REDWOOD VALLEY	718	SEC 09	T16N	R12W		M	39 16 00	123 12 00	900		1937			23
E4 7414	RICHMOND	55					M	37 56 00	122 21 00	900		1950			07
D4 7539-01	ROOSEVELT RANCH	1100	SEC 24	T20S	R02E	F	M	36 10 48	121 41 48	000		1946			27
E3 7643	SAINT HELENA	225	SEC 31	T08N	R05W	C	M	38 30 25	122 27 40	900		1907			28
E3 7646	SAINT HELENA 4 WSW	1792	SEC 04	T07N	R06W		M	38 30 00	122 32 00	900		1939			21
E4 7661	SAINT MARYS COLLEGE	625	SEC 17	T01S	R02W		M	37 50 00	122 06 00	900		1942			07
D2 7668	SALINAS 2 E	80		T14S	R03E		M	36 40 00	121 37 00	900		1958			27
D2 7669	SALINAS FAA AIRPORT	80		T14S	R03E		M	36 40 00	121 36 00	900		1873			27
T9 7672	SALINAS DAM	1380	SEC 08	T30S	R14E		M	35 20 00	120 30 00	900		1942			40
E2 7707-01	SAN ANSELMO	100	SEC 31	T02N	R06W	L	M	37 58 36	122 33 42	411		1957			21
D3 7714	SAN ANTONIO MISSION	1060	SEC 18	T22S	R07E		M	36 01 00	121 15 00	900		1959			27
D2 7716	SAN ARDO	440	SEC 09	T22S	R10E		M	36 02 00	120 54 00	900		1894			27
D1 7719	SAN BENITO	1355	SEC 27	T16S	R08E	H	M	36 30 30	121 04 54	900		1936			35
D4 7731	SAN CLEMENTE DAM	600	SEC 23	T17S	R02E		M	36 26 12	121 42 30	900	NPGS18	1940			27
D1 7755	SAN FELIPE HIGHWAY STATION	365	SEC 32	T10S	R06E		M	37 01 00	121 20 00	900		1943			43
E8 7767	SAN FRANCISCO SUNSET	300		T02S	R06W		M	37 46 00	122 30 00	900		1948			80
E7 7769	SAN FRANCISCO WB AIRPORT	8		T04S	R05W		M	37 37 00	122 23 00	900		1928			41
E7 7772	SAN FRANCISCO F O B	52		T02S	R05W		M	37 47 00	122 25 00	900		1931			80
E8 7807	SAN GREGORIO 2 SE	245	SEC 23	T07S	R05W	Q	M	37 18 14	122 21 38	900		1964			41
E6 7821	SAN JOSE	70		T07S	R01E		M	37 21 00	121 54 00	900		1874			43
E6 7824-01	SAN JOSE DECID F F S	90	SEC 15	T07S	R01W	J	M	37 19 00	121 57 00	801		1935			43
D1 7834	SAN JUAN BAUTISTA 3 SSE	615	SEC 10	T13S	R04E		M	36 49 00	121 31 00	900		1943			35
D1 7835	SAN JUAN BAUTISTA MISSION	200		T12S	R04E		M	36 50 42	121 32 00	804		1900		02	35
E7 7864	SAN MATEO	30	SEC 29	T04S	R04W		M	37 34 00	122 19 00	900		1874			41
E2 7880	SAN RAFAEL	31			R06W		M	37 58 00	122 32 00	900		1948			21
E2 7880-08	SAN RAFAEL NO. 1	25	SEC 34	T02N	R06W	R	M	37 58 24	122 31 30	413		1876			21
E6 7912	SANTA CLARA UNIVERSITY	88	SEC 02	T07S	R01W	P	M	37 20 52	121 56 27	900		1881			43
D0 7916	SANTA CRUZ	125		T11S	R01W		M	36 59 00	122 01 00	900		1866			44
T9 7930	SANTA MARGARITA 2 SW	1200	SEC 36	T29S	R12E		M	35 22 00	120 38 00	900		1940			40
T9 7933	SANTA MARGARITA BSTR	1100	SEC 25	T29S	R12E		M	35 22 00	120 38 00	900		1931		03	40
F9 7964	SANTA ROSA SEWAGE PLANT	20	SEC 21	T07N	R08W	P	M	38 26 24	122 45 12	000		1956			49
F9 7965	SANTA ROSA	167		T07N	R08W		M	38 27 00	122 42 00	900		1888			49
E6 7998-01	SARATOGA CLARK	272	SEC 32	T07S	R01W	F	M	37 16 48	121 59 42	414		1956			43
E6 7998-02	SARATOGA GAP MAINT STATION	2600	SEC 06	T08S	R02W	Q	M	37 16 06	122 07 18	809					43
E6 7998-03	SARATOGA KRIEGE	290	SEC 12	T08S	R02W	F	M	37 15 00	122 02 00	426		1960			43
E6 8068	SEARSVILLE LAKE	350	SEC 12	T06S	R03W		M	37 24 00	122 14 00	900		1949			41
F9 8072	SEBASTOPOL 4 SSE	145	SEC 24	T06N	R09W	E	M	38 21 06	122 48 42	900		1935			49
F8 8272	SKAGGS SPRING LAS LOMAS	1930	SEC 36	T10N	R12W	B	M	38 40 38	123 08 04	900		1939			49
D2 8276	SLACK CANYON	1730	SEC 22	T21S	R12E	M	M	36 05 00	120 40 00	900		1955			27
D2 8338	SOLEDAD	204		T17S	R06E		M	36 26 00	121 19 00	900		1874			27
D2 8338-01	SOLEDAD C T F	230	SEC 12	T17S	R05E	B	M	36 28 26	121 22 34	806		1961			27
E2 8351	SONOMA	20		T05N	R05W		M	38 17 00	122 27 00	900		1952			49
E0 8376	S E FARALLON	27					M	37 42 00	123 00 00	900		1941			80
D2 8446	SPRECKELS HIGHWAY BRIDGE	60		T15S	R03E		M	36 36 00	121 41 00	900		1905			27
D2 8446-01	SPRECKELS	55	SEC 16	T15S	R03E		M	36 37 14	121 39 27	000		1905			27
E6 8519	STEVENS CREEK RESERVOIR	600	SEC 28	T07S	R02W	H	M	37 18 00	122 05 00	414		1937			43
D0 8680	SUNSET BEACH STATE PARK	85		T12S	R01E		M	36 54 00	121 50 00	900		1956			44
E2 8779	TAMALPAIS VALLEY	250	SEC 05	T01N	R06W	B	M	37 52 42	122 32 36	901		1959			21
T9 8849	TEMPLETON	773	SEC 29	T27S	R12E		M	35 32 54	120 42 20	000		1886		05	40
F9 8885	THE GEYSERS	1668	SEC 14	T11N	R09W	G	M	38 48 02	122 49 32	900		1939			49
E2 8920-21	TIBURON TOPHAM	400	SEC 06	T01S	R05W	K	M	37 52 24	122 27 12	000		1960			21
F9 9122	UKIAH	623	SEC 17	T15N	R12W		M	39 09 00	123 12 00	900		1877			23
F9 9124	UKIAH 4 WSW	1900		T15N	R12W		M	39 08 00	123 17 00	900		1951			23
E4 9185	UPPER SAN LEANDRO FIL	390	SEC 11	T02S	R03W	G	M	37 46 00	122 10 00	900		1944			07
D1 9189	UPPER TRES PINOS	2050	SEC 07	T15S	R09E		M	36 38 00	121 02 00	900		1940			35

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1968-69

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
D3 9221	VALLETON	950	SEC 32	T23S	R12E		M	35 53 00	120 42 00	900		1940			27
E6 9270	VASONA RESERVOIR	300	SEC 10	T08S	R01W	M	M	37 14 36	121 58 00	426					43
F9 9273	VENADO	1260	SEC 19	T09N	R10W		M	38 37 00	123 01 00	900		1939			49
E3 9305	VETERANS HOME	170	SEC 01	T06N	R05W		M	38 23 00	122 22 00	000		1912			28
E4 9420	WALMAR SCHOOL	128					M	37 57 00	122 05 00	900		1954			07
E4 9423	WALNUT CREEK 2 ESE	245	SEC 36	T01N	R02W		M	37 53 00	122 02 00	900		1887			07
E4 9426	WALNUT CREEK 2 ENE	220	SEC 30	T01N	R02W		M	37 54 00	122 01 00	900		1944			07
E4 9427	WALNUT CREEK 4 E	265	SEC 29	T01N	R01W	G	M	37 54 23	121 59 40	900		1954			07
D1 9473	WATSONVILLE WATERWORKS	95	SEC 32	T11S	R02E		M	36 56 00	121 46 00	900		1880			44
D0 9675	WILDER RANCH	50	SEC 21	T11S	R02W	E	M	36 57 36	122 05 24	000		1924	1968		44
E3 9675-41	WILD HORSE VALLEY	1240	SEC 10	T05N	R03W	D	M	38 17 53	122 11 13	418					48
F9 9770	WOODACRE	430	SEC 21	T02N	R07W	G	M	38 00 24	122 38 30	808	049770	1950			21
E6 9814	WRIGHTS	1600	SEC 23	T09S	R01W		M	37 08 00	121 57 00	900		1918			43
F8 9851	YORKVILLE	1120	SEC 08	T12N	R12W	M	M	38 54 18	123 18 46	900		1939			23
E3 9861	YOUNTVILLE GAMBLE	120	SEC 24	T07N	R05W	P	M	38 26 05	122 22 05	806		1962	1968		28

TABLE A-2

PRECIPITATION DATA

The definition of terms and abbreviations used in connection with this table are as follows:

- No record or record incomplete.

* Amount included in the following measurement. Time distribution unknown.

E Wholly or partially estimated.

T Trace, an amount too small to measure.

V Includes total from previous month.

RB Record began.

RE Record ended.

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

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1968						1969									Total Oct. 1 to Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
CENTRAL COASTAL AREA																	
SANTA CRUZ DO																	
BEN LOMOND NO. 3	68.47	T	0.49	T	2.24	4.38	10.32	25.78	19.37	1.97	3.92	T	T	0	0	0.08	68.06
BOULDER CREEK LOCATELLI RC	95.78	0	0.92	0	3.71	6.19	17.08	35.53	23.81	3.04	4.72	0.12	0.66	0	0	0.07	94.93
CORRALITOS	46.6	0	0.7	0	0.8	3.5	8.5	15.6	12.9	1.3	3.1	0.2	0	0.2	0	0	46.1
CREST RANCH	95.13	0	0.93	T	2.96	5.75	15.75	36.64	22.88	4.60	4.83	0.30	0.49	-	-	-	-
DAVENPORT	40.09	0	0.44	0.08	1.17	4.25	8.14	10.18	11.43	2.02	2.10	0	0.28	0	0.03	0.02	39.62
LOS GATOS 4 SW	72.53	0	0.30	0	2.58	4.09	12.85	27.45	18.12	2.42	4.22	T	0.50	0	0	0	72.23
SANTA CRUZ	45.42	T	0.55	0	1.50	4.31	7.27	14.80	12.01	1.99	2.87	0.08	0.04	0	0	0.07	44.94
SUNSET BEACH STATE PARK	33.3	0	0.2	0	0.6	3.5	4.1	10.2	10.3	0.9	3.5	0	0	0	0.1	0.1	33.3
WILDER RANCH	-	0	0.47	0	RE												
PAJARO-SAN BENITO RIVERS D1																	
BUENA VISTA	21.43	0	0.05	0	0.79	1.94	2.77	6.89	6.29	0.92	1.78	0	0	0	0	0.16	21.54
BUZZARD LAGOON	51.06	0	0.16	0	1.47	3.80	7.42	20.58	15.07	0.52	2.04	0	0	0	0	0	50.90
CHITTENDEN PASS	30.54	0	0.19	0	0.79	2.67	3.74	11.99	7.21	2.03	1.92	0	0	0	0	0.15	30.50
CHITTENDEN	33.54	0	0.16	0	0.98	2.52	3.71	11.87	10.28	2.19	1.83	0	T	0	0	0.15	33.53
CIENEGA	29.42	0	0	0	0.74	1.86	4.19	10.44	8.33	2.11	1.75	0	0	0	0	0.24	29.66
FREEDOM 8 NNW	54.74	0	0.52	0	1.34	3.86	7.84	21.78	15.11	1.00	3.21	0	0.08	0	0	0.02	54.24
FREMONT PEAK	37.69	T	0.73	0	1.01	3.24	5.80	13.56	8.31	1.38	2.95	0.05	0.66	0	0	0.19	37.15
GILROY	31.97	0	0.02	0	0.72	2.39	4.28	13.33	7.88	1.62	1.72	0	0.01	0	0	0.13	32.08
GILROY 14 ENE	34.94	0	0.08	0	0.41	2.33	4.58	14.73	9.24	1.74	1.83	0	T	0	0	0.59	35.45
HERNANDEZ 2 NW	27.97	0	T	0	1.22	2.36	3.03	9.10	9.20	0.52	2.54	0	0	0	0	1.06	29.03
HERNANDEZ 7 SE	35.58	0	0	0	1.38	2.00	3.90	15.04	10.39	0.29	2.55	0.03	0	0	0	0.97	36.55
HOLLISTER 1 SW	19.44	0	0	0	0.28	1.74	2.38	7.57	5.29	0.83	1.32	0.01	0.02	0	0	0.18	19.62
HOLLISTER 2	-	0	0	0	0.5	-	-	7.3	5.6	0.5	1.4	0	0	0	0	0.2	-
HOLLISTER 10 ENE	-	0	0.41	0	1.05	2.80	3.91	-	-	-	2.75	0	0.35	0	0	-	-
MORGAN HILL 2E	34.40	0	0.39	0	0.47	2.42	4.34	14.32	9.85	0.56	2.01	0.01	0.03	0	0	0.11	34.12
MORGAN HILL SCS	37.3	0	0.1	0	0.6	2.2	4.7	16.0	11.1	0.6	2.0	0	0	0	0	0.1	37.3
MOUNT MADONNA	46.99	0	0.64	0	1.26	3.45	6.11	18.05	12.62	1.19	3.62	0	0.05	0	0	0.04	46.39
MOUNT MADONNA COUNTY PARK	41.00	0.03	0.54	0.10	0.80	3.32	5.00	15.65	9.73	2.18	3.09	0.16	0.40	0.05	0	0.14	40.52
PAICINES OHRWALL RANCH	24.23	0	0	0	0.75	1.57	3.18	8.71	6.54	1.72	1.76	0	0	0	0	0	24.23
QUIEN SABE HAY CAMP	26.52	T	0.22	0	0.72	2.41	4.17	8.29	6.70	1.55	2.24	0	0.22	0	T	0.45	26.75
RANCHO QUIEN SABE	25.36	0	0.25	0	0.87	2.30	4.02	6.69	7.94	1.24	1.92	0	0.13	0	0	0	25.11
SAN BENITO	21.41	0	0.13	0	1.02	1.89	2.08	7.31	7.16	0.40	1.42	0	0	0	0	0.50	21.78
SAN FELIPE HIGHWAY STATION	27.25	0	0.15	0	0.45	2.20	3.61	10.59	7.89	0.49	1.62	0	0.25	0	0	0.36	27.46
SAN JUAN BAUTISTA 3 SSE	26.36	0	0.10	0	0.49	2.22	4.28	9.64	6.64	1.29	1.70	0	0	0	0	0.11	26.37
SAN JUAN BAUTISTA MISSION	-	T	0.02	0	0.74	2.43	4.01	11.86	6.09	-	-	-	-	-	-	-	-
UPPER TRES PINOS	21.23	0	0	0	0.75	1.81	2.05	7.13	7.64	0.63	1.22	0	0	0	0	0.74	21.97
WATSONVILLE WATERWORKS	32.39	0	0.22	0.01	0.60	3.35	4.74	10.93	8.53	1.62	2.39	0	T	0	0	0.09	32.25
LOWER SALINAS RIVER D2																	
ARROYO SECO	40.93	0	0	0	0.83	2.09	3.95	20.16	11.63	0.35	1.92	0	0	0	0	0.24	41.17
DEL MONTE	19.02	0	0.08	0	0.41	2.37	1.55	6.44	5.11	0.88	2.09	0	0.09	0	0	0.11	19.05
FORT ORD	24.87	T	0.11	T	0.11	2.63	3.10	7.68	7.93	0.88	2.32	0.07	0.04	T	T	0.09	24.85
GONZALES 9 ENE	21.31	0	0	0	0.67	1.87	2.49	6.00	7.37	1.22	1.67	0	0.02	0	0	0.02	21.33
GREENFIELD BAKER	15.80	0	0	0	0.90	1.29	1.72	5.37	4.84	0.47	1.21	0	0	0	0	0.14	15.94
HAMES VALLEY	31.13	0	T	0	2.03	1.68	2.99	14.30	7.98	0.25	1.90	0	0	0	0	0.30	31.43
KING CITY	17.04	0	T	0	0.13	1.46	1.91	6.77	5.42	0.23	1.12	0	0	0	0	0.35	17.39
MONTEREY	28.36	0.06	0.23	0.05	0.31	3.13	3.27	9.45	7.31	1.31	2.70	0.12	0.42	0.04	T	0.12	28.18
MONTEREY N A L F	23.17	0.01	0.06	0.01	0.26	2.00	2.52	8.10	6.67	0.86	2.50	0.03	0.15	T	T	0.10	23.19
PALOMA	39.99	T	0.06	0	0.54	2.04	5.00	15.06	13.27	0.97	2.55	0.31	0.19	0	T	0.05	39.98
PINNACLES NATL MONUMENT	24.38	0.02	T	0	1.03	2.01	2.38	7.33	9.43	0.75	1.43	0	0	0	0	0.19	24.55
PRIEST VALLEY	39.98	0	T	0	1.59	2.25	4.26	16.89	10.74	0.86	3.37	0.02	0	0	0	0.48	40.46
SALINAS 2E	23.36	0	0.06	0	0.29	1.96	3.28	8.53	6.24	1.21	1.76	0	0.03	0	0	0	23.30
SALINAS FAA AIRPORT	21.14	T	0.08	T	0.28	1.76	2.75	7.93	5.75	1.07	1.50	T	0.02	T	T	0.03	21.09
SAN ARDO	28.70	0	T	0	1.45	1.65	2.82	12.33	8.22	0.28	1.95	0	0	0	0	0.40	29.10
SLACK CANYON	30.33	0	T	0	1.77	1.90	2.88	12.62	7.90	0.80	2.34	0	0.12	0	0	0.40	30.73
SOLEDAD	18.14	T	T	0	0.60	1.38	2.05	5.97	6.02	0.64	1.48	0	0	0	0	0.25	18.39
SOLEDAD C T F	15.45	0	0	0	0.52	1.12	1.81	4.74	5.29	0.72	1.25	0	0	0	0	0.12	15.57
SPRECKELS HIGHWAY BRIDGE	24.29	T	0.05	0.01	0.36	1.88	2.73	9.10	6.48	1.55	2.03	0.01	0.09	0.01	0	0.25	24.49
SPRECKELS	22.88	0	0.05	0	0.27	1.85	2.82	9.00	6.16	0.88	1.70	0.10	0.05	T	0	0	22.83
UPPER SALINAS RIVER D3																	
BRADLEY	-	-	-	-	-	2.13	-	11.20	6.86	0.40	2.07	0	0	0	0	0.22	-
BRYSON	50.54	0	0	0	1.53	1.81	5.22	24.91	13.83	0.24	3.00	0	0	0	0	0.13	50.67
LOCKWOOD 2 N	26.54	0	0	0	1.54	1.67	2.93	11.97	6.47	0.24	1.72	0	0	0	0	0.18	26.72
PARKFIELD	32.40	0	0	0	1.71	1.93	3.86	12.84	9.35	1.00	1.71	0	0	0	0	0.06	32.46
PARKFIELD 7 NNW	-	0	0.06	0	1.68	1.46	2.42	9.67	-	-	1.42	0	RE				
SAN ANTONIO MISSION	35.54	0	0	0	1.76	2.03	4.00	15.36	10.10	0.20	2.09	0	0	0	0	0.54	36.08
VALLETON	26.86	0	0	0	1.48	1.58	2.38	11.34	7.39	0.17	2.52	0	0	0	0	0.20	27.06
MONTEREY COAST D4																	
BIG SUR STATE PARK	61.30	0	0.21	0	1.80	3.38	8.06	23.50	17.61	2.66	3.90	0.10	0.08	0	0	0.11	61.20
CARMEL VALLEY	30.47	0.04	0.05	0	0.33	2.00	3.52	12.53	8.64	1.31	1.74	0.13	0.18	0	0	0.02	30.40
LUCIA WILLOW SPRINGS	48.13	0	0.18	0	1.60	2.33	6.50	21.36	12.51	0.63	3.02	0	0	0	0	0.16	48.11
ROOSEVELT RANCH	44.99	0	0.26	0	2.51	3.54	5.17	16.51	11.90	1.82	3.11	T	0.17	0	0	0.20	44.93
SAN CLEMENTE DAM	36.87	0	0.02	0	0.33	1.77	4.24	15.13	11.10	1.92	2.14	0.12	0.10	0	0	0	36.85

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1968						1969									Total Oct. 1 to Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
UPPER SALINAS RIVER T9																	
ATASCADERO MAINTENANCE STN	38.42	0	0	0	2.02	1.05	2.89	16.48	12.71	1.35	1.92	0	0	0.40	0	0.05	38.87
CHOLAME ALLEY RANCH	20.66	0	0	0	1.71	1.25	1.21	8.74	6.23	0.21	1.31	0	0	0	0	0.08	20.74
LA PANZA RANCH	20.35	0	0	0	0.95	0.58	1.09	9.16	7.32	0.22	0.98	0	0.05	0	0	0.10	20.45
LINN RANCH	-	0	RE														
NACIMIENTO DAM	31.71	0	0	0	2.22	1.42	2.63	13.98	8.91	0.49	1.99	0	0.07	0	0	0.13	31.84
PASO ROBLES	31.25	0	T	0	1.83	1.14	3.13	13.93	9.12	0.35	1.68	0.06	0.01	0.25	0	T	31.50
PASO ROBLES 5 NW	30.67	0	0	0	1.71	1.00	2.33	13.27	10.14	0.21	2.01	0	0	0	0	0.20	30.87
PASO ROBLES FAA AIRPORT	29.17	0	0	0	2.43	1.16	2.54	12.19	8.82	0.17	1.78	0.03	0.05	0.30	0	0.15	29.62
SALINAS DAM	49.26	T	T	0	1.83	1.55	2.73	21.71	17.29	1.10	3.04	0.01	T	T	0	T	49.26
SANTA MARGARITA 2 SW	55.13	0	T	0	3.22	3.12	5.60	21.67	15.81	1.66	4.01	T	0.04	0	0	0.07	55.20
SANTA MARGARITA BSTR	60.61	T	T	T	2.94	3.06	5.63	26.62	16.64	1.80	3.90	0.01	0.01	T	0	0.06	60.67
TEMPLETON	38.28	0	0	0	2.25	1.14	3.00	17.56	11.85	0.30	2.09	0.09	0	0.58	0	0.10	38.96
SAN FRANCISCO BAY AREA																	
SAN FRANCISCO BAY EO																	
S E FARALLON	21.68	0	0.05	0.04	1.66	3.01	4.38	4.56	5.77	0.91	1.28	0	0.02	0	0	0.06	21.65
COAST-MARIN E1																	
MUIR WOODS	47.67	0	0.63	0.17	2.10	5.87	11.48	11.17	10.49	2.54	2.93	0.18	0.11	0	0	0.06	46.93
MARIN-SONOMA E2																	
KENTFIELD	67.92	0	0.97	0	4.96	6.49	16.15	20.11	13.26	3.23	2.67	0.08	0	0	0	0.03	66.98
MILL VALLEY	42.95	0	0.50	0.10	1.50	5.65	9.85	10.30	10.20	2.40	2.35	0.10	0	0	0	0	42.35
NOVATO FIRE HOUSE	35.66	0	0.25	0	1.31	3.23	7.58	9.86	10.59	1.08	1.76	0	0	0	0	0	35.41
OAKVILLE 4 SW NO. 2	60.83	0	0.31	0.09	4.28	3.38	12.79	20.08	14.75	1.35	3.70	0.04	0.06	0	0	0	60.43
PETALUMA FIRE STN NO. 2	30.86	0	0.62	0.03	1.84	3.20	5.72	7.72	7.57	1.63	2.52	0	0.01	0	0	T	30.21
PETALUMA BURNS	-	0	0.36	0.06	2.28	4.10	10.60	12.73	9.88	1.99	2.47	-	-	0	0	0.01	-
SAN ANSELMO	66.59	0	0.15	0	4.05	4.64	15.16	19.37	18.61	1.80	2.80	0	0.01	0	0	0.02	66.46
SAN RAFAEL	56.43	T	0.32	0	3.25	5.10	14.10	16.49	13.01	1.69	2.45	0.02	T	0	0	0.09	56.20
SAN RAFAEL NO. 1	28.92	T	0.27	T	0.68	2.39	5.77	9.40	6.05	3.95	0.31	0.10	T	0	0	0.09	28.74
SONOMA	34.48	0	0.27	0	1.98	3.15	7.95	8.01	9.09	1.66	2.27	T	0.10	0	0	T	34.21
TAMALPAIS VALLEY	46.14	0	0.56	0.15	1.72	5.78	10.44	11.68	10.66	2.45	2.44	0.18	0.08	0	0	T	45.43
TIBURON TOPHAM	56.15	0	0.37	0	1.42	6.63	15.41	13.08	13.67	3.02	2.55	0	0	0	0	0.10	55.88
NAPA-SOLANO E3																	
ANGWIN PUC	59.16	0	0.97	0.02	3.74	4.00	12.24	21.27	11.13	2.08	3.53	0.09	0.09	T	0	0	58.17
ATLAS ROAD	-	0	1.1	0	3.2	3.7	-	-	12.8	1.3	4.3	0.2	0.2	0	0	0	-
CALISTOGA	51.69	0	0.94	0.07	2.92	3.41	11.56	16.73	10.94	1.91	3.01	0.12	0.08	0	0	0	50.68
CARNEROS VALLEY	40.05	0	0.33	0.20	2.45	3.65	8.23	11.74	9.42	1.64	2.30	T	0.09	0	0	T	39.52
COLLINSVILLE	-	0	0	0	0.17	2.44	2.51	6.27	-	-	-	-	-	-	-	-	-
DENVERTON 1 S	22.98	T	T	0	0.22	3.18	2.55	7.14	7.74	0.76	1.31	0.03	0.05	T	T	T	22.98
DUTTONS LANDING	24.14	0	0.09	0	1.00	3.25	4.81	6.48	5.81	1.50	1.16	0	0.04	0	0	0	24.05
FAIRFIELD	28.02	0	0.98	0	0.66	3.41	4.02	9.10	7.39	0.93	1.38	0	0.15	0	0	0	27.04
FAIRFIELD FIRE STATION	30.06	0	1.18	0	0.75	3.55	4.44	9.80	7.04	1.95	1.25	0	0.10	0	0	0	28.88
GREEN VALLEY	-	0	0.36	0	1.77	3.36	6.48	12.00	9.74	1.35	2.08	-	-	-	-	-	-
GRIZZLY ISLAND	-					RB	3.04	8.34	5.49	1.63	0.97	0.01	0.05	0	0	0	-
LAKE CURRY	-	0	0.33	0	1.79	2.64	5.42	11.31	8.99	0.90	1.91	-	0.19	-	-	-	-
MARE ISLAND NAVY	24.59	0	0.04	T	0.85	3.15	5.06	7.27	5.82	0.69	1.64	0	0.07	0	0	0	24.55
NAPA STATE HOSPITAL	28.17	0	0.25	0	1.62	2.90	4.87	8.30	7.58	1.03	1.59	0	0.03	0	0	0	27.92
OAKVILLE 1 WNW	44.53	0	0.35	T	2.06	3.27	9.74	14.24	11.02	1.37	2.44	T	0.04	0	0	0.01	44.19
SAINT HELENA	50.05	0	0.81	T	2.92	3.68	10.58	17.13	10.82	1.58	2.34	0.08	0.11	T	0	T	49.24
SAINT HELENA 4 WSW	59.5	0	0.8	0.2	4.3	3.7	11.9	20.4	12.3	1.9	3.6	0.2	0.2	0	0	0	58.5
VETERANS HOME	50.25	0	0.53	0	3.20	3.20	10.68	15.65	11.74	2.34	2.86	0.01	0.04	0	0	0	49.72
WILD HORSE VALLEY	-	0	0.43	0	1.99	2.63	6.28	13.07	10.98	1.49	2.89	-	0.06	-	-	-	-
YOUNTVILLE GAMBLE	-	0	0.96	0	3.06	2.85	RE										
EAST BAY E4																	
ALAMO 1 N	30.85	T	0.10	0	0.26	2.48	4.32	11.15	9.13	1.60	1.76	0.04	0.01	0	0	T	30.75
BERKELEY	31.29	0	0.55	0	0.81	2.89	5.13	9.22	8.76	1.44	2.46	0	0.03	0	0	T	30.74
BURTON RANCH	34.87	T	0.14	0	0.50	2.89	5.24	11.58	9.85	2.26	2.30	T	0.11	0	0	T	34.73
CONCORD 3 E	24.26	0	0.02	0	0.20	2.83	3.24	7.28	7.17	1.32	2.12	0.03	0.05	0	0	T	24.24
CROCKETT	24.74	0	0.02	T	0.54	3.24	4.61	7.63	5.67	1.38	1.61	0	0.04	0	0	0	24.72
HAYWARD 6 ESE	33.94	0	0.14	0	0.51	3.50	5.75	10.95	9.05	1.32	2.31	0.04	0.37	0	0	0	33.80
LAFAYETTE 2 NNE	31.94	T	0.13	T	0.67	2.45	4.33	11.64	8.56	1.73	2.34	0.04	0.05	0	0	T	31.81
MARTINEZ 3 S	28.84	0	0.29	0	0.56	2.78	4.49	9.95	8.21	0.77	1.76	0	0.03	0	0	0	28.55
MARTINEZ 3 SSE	25.06	0.02	0.11	0.01	0.49	2.84	4.17	10.14	4.87	1.02	1.38	0.01	T	0	0	T	24.92
MARTINEZ FIRE STN	25.28	0	0.17	0	0.22	3.28	3.63	9.09	6.16	1.09	1.64	0	T	0	0	T	25.11
MOUNT DIABLO NORTH GATE	30.50	0	0.18	0	0.43	3.43	3.98	10.76	7.75	1.68	2.08	0.08	0.13	0	0	0.01	30.33
OAKLAND 39TH AVENUE	32.16	T	0.33	0	0.66	3.23	4.82	9.65	9.67	1.16	2.54	0	0.10	0	0	T	31.83
OAKLAND CITY HALL	20.35	0.01	0.01	T	0.44	1.87	2.84	7.80	5.42	0.50	1.46	0	T	0	0	0	20.33
OAKLAND WB AIRPORT	24.57	T	0.03	T	0.29	2.44	3.21	6.90	8.85	0.98	1.82	T	0.05	T	0	T	24.54
PORT CHICAGO NAD	21.80	0	T	0	0.13	2.49	2.82	7.38	6.75	0.91	1.32	0	T	0	0	0	21.80
RICHMOND	31.49	T	0.13	0	1.07	3.05	5.69	9.39	8.90	1.42	1.79	0.01	0.04	0	0	0.01	31.37
SAINT MARYS COLLEGE	35.95	T	0.30	0	0.74	3.27	5.38	12.25	10.35	1.34	2.27	T	0.05	0	0	0	35.65
UPPER SAN LEANDRO FIL	30.72	T	0.25	0.03	0.28	3.26	4.74	9.00	9.14	1.63	2.27	0	0.12	0	0	0	30.44
WALMAR SCHOOL	29.09	0	0.15	0	0.39	2.77	4.58	10.23	8.04	1.06	1.73	0.14	0	0	0	0	28.94
WALNUT CREEK 2 ESE	27.08	0	0.03	0	0.30	2.30	3.77	9.56	8.53	0.99	1.59	0	0.01	0	0	T	27.05

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1968						1969									Total Oct. 1 to Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
SAN FRANCISCO BAY AREA																	
EAST BAY E4																	
WALNUT CREEK 2 ENE	25.63	0	0.02	0	0.24	2.37	3.74	9.06	7.73	0.85	1.62	0	0	0	0	0	25.61
WALNUT CREEK 4 E	23.89	T	0.03	0	0.12	2.52	3.07	8.60	6.89	1.13	1.51	0.01	0.01	0	0	T	23.86
ALAMEDA CREEK E5																	
CALAVERAS RESERVOIR	26.78	0	0.38	0	0.75	3.46	3.75	7.30	6.15	2.71	2.15	0.08	0.05	0	0	0	26.40
GERBER RANCH	28.20	0	0.04	0	0.58	3.21	3.17	10.97	7.32	1.40	1.51	T	T	0	0	0.68	28.84
LIVERMORE COUNTY FD	18.86	0	T	T	0.43	2.48	3.04	6.28	4.76	0.55	1.24	0.08	T	0	0	0	18.86
LIVERMORE SEWAGE PLANT	19.14	0	0.05	0	0.10	3.07	3.08	5.64	5.25	0.66	1.23	0.05	0.01	0	0	0.03	19.12
MOUNT HAMILTON	27.06	0	0.33	0	0.95	4.67	3.94	6.26	7.20	1.52	1.90	0.08	0.21	0	T	0.05	26.78
NILES PINNA	-	0	0	0	0.54	2.27	10.69	6.98	5.39	2.24	1.51	-	-	-	-	-	-
NEWARK	18.48	0	0.72	0	0.27	2.48	2.26	6.24	3.96	1.38	1.15	0.02	T	0	0	0.05	17.81
PLEASANTON NURSERY	22.16	0	0.02	0	0.47	2.27	4.49	5.64	5.68	1.86	1.71	T	0.02	0	0	T	22.14
SANTA CLARA VALLEY E6																	
ALAMITOS PERCOLATION POND	23.90	0	0.06	0	0.35	1.57	3.27	7.61	7.96	1.22	1.81	0.05	0	0	0	0.10	23.94
ALMADEN RESERVOIR	47.84	0	0.47	0	0.75	2.22	6.46	17.79	15.09	2.19	2.87	0	0	0	0	0.10	47.47
BLACK MOUNTAIN 2 SW	49.50	0	0.55	0.08	1.42	3.53	7.24	17.66	11.48	2.97	3.40	0.05	1.12	0	0	T	48.87
CALERO RESERVOIR	34.36	0	0.04	0	0.56	2.05	3.93	13.95	10.36	1.22	2.25	0	0	0	0	0.15	34.47
CAMBRIAN PARK	26.06	0	0.05	0	0.34	1.76	3.50	8.45	8.77	1.48	1.65	0.05	0.01	0	0	0.06	26.07
CAMPBELL WATER COMPANY	24.54	0	0.04	0	0.38	2.04	2.82	8.30	7.27	1.89	1.78	0.02	T	0	0	0.10	24.60
COYOTE RESERVOIR	34.79	0	0.05	0.01	0.58	2.83	4.25	13.80	9.73	1.42	2.01	T	0.11	0	0	0.17	34.90
GILROY 8 NE	30.07	0	0.18	0	0.58	2.09	4.19	12.37	8.33	0.65	1.65	0	0.03	0	0	0.49	30.38
GUADALUPE RESERVOIR	41.80	0	0.05	0	0.79	1.92	5.52	15.79	13.25	1.47	3.01	0	0	0	0	0.11	41.86
LAKE ELSMAN	55.66	RB	0.14	0	1.68	2.99	8.54	20.48	16.37	1.82	3.49	0.09	0.06	0	0	0.02	55.54
LEROY ANDERSON DAM	35.18	0	0.78	0	0.51	2.66	4.20	13.88	9.44	1.41	2.27	0.01	0.02	0	0	0.08	34.48
LEXINGTON RESERVOIR	56.01	0	0.16	0	1.22	2.81	8.07	21.06	16.22	2.81	3.61	0.05	0	0	0	0.03	55.88
LOS GATOS	34.93	0	0.07	0	0.50	1.92	4.90	12.64	11.66	1.04	2.13	0.06	0.01	0	0	0.02	34.88
LOS GATOS WRIGHT	-	RE															
MORGAN HILL 6 WSW	-	0	-	0	-	-	-	20.83	15.31	1.08	2.05	0	0	0	0	0.03	-
PALO ALTO CITY HALL	20.53	T	0.04	0	0.27	1.93	2.92	7.65	4.94	1.32	1.45	0.01	T	0	0	0.03	20.52
PENITENCIA RAIN GAGE	-	0	0.26	0	1.00	3.37	2.80	6.20	-	1.78	1.76	0.12	0	0	0	0	-
REDWOOD CITY	28.73	0	0.11	0	0.37	1.95	4.75	9.39	8.90	1.42	1.79	0.01	0.04	0	0	0.01	28.63
SAN JOSE	21.12	T	1.96	0	0.30	2.02	1.85	5.56	6.63	1.07	1.70	0.03	T	0	0	0.14	19.30
SAN JOSE DECIDUOUS FFS	20.34	0	0.22	0	0.28	1.87	2.35	6.46	6.12	1.32	1.66	0.06	0	0	0	0.07	20.19
SANTA CLARA UNIVERSITY	20.39	0	0.66	0	0.26	1.95	2.33	5.99	6.42	1.09	1.63	0.06	0	0	0	0.07	19.80
SARATOGA CLARK	30.39	0	0.13	0	0.48	1.90	4.33	11.26	8.55	1.55	2.17	0.02	0	0	0	0.02	30.28
SARATOGA GAP MAINT STN	-	0	0.38	0	2.12	4.56	9.53	26.60	19.00	2.25	4.80	-	0.70	-	-	-	-
SARATOGA KRIEGE	31.11	0	0.09	0	0.53	1.87	5.08	11.51	10.18	0.70	1.15	0	0	-	-	-	-
SEARSVILLE LAKE	40.83	T	0.36	0	0.74	2.71	7.22	14.05	9.50	3.54	2.68	0.01	0.02	0	0	T	40.47
STEVENS CREEK RESERVOIR	42.41	0	0.34	0	0.90	1.99	4.58	15.55	13.25	2.69	3.11	0	0	0	0	0.04	42.11
VASONA RESERVOIR	29.39	0	0.12	0	0.65	1.81	3.46	10.83	8.88	1.44	2.20	0	0	0	0	0.02	29.29
WRIGHTS	64.15	0	0.33	0	1.42	3.73	10.07	23.57	18.74	1.78	4.30	0.07	0.14	0	0	T	63.82
BAYSIDE-SAN MATEO E7																	
BURLINGAME	28.84	0	0.07	0	0.51	2.63	4.94	9.54	8.81	1.18	1.13	0	0.03	0	0	0	28.77
SAN FRANCISCO WB AIRPORT	28.28	T	0.06	T	0.45	2.47	4.49	8.92	8.62	1.34	1.87	T	0.06	T	T	0.02	28.24
SAN FRANCISCO FOB	25.09	T	0.03	0.06	0.62	2.67	3.91	7.74	7.26	1.01	1.74	T	0.05	T	T	0.01	25.01
SAN MATEO	24.24	0	0.07	0	0.12	2.30	4.28	7.18	7.25	1.24	1.80	0	0	0	0	0.04	24.21
COAST-SAN MATEO E8																	
HALF MOON BAY	31.55	0	0.28	0	0.65	2.69	5.90	8.06	8.68	2.07	2.76	0.06	0.40	0	0	0.21	31.48
LA HONDA	41.15	T	0.63	0	0.83	3.31	6.02	12.82	11.35	2.26	2.91	0.10	0.92	0	0	0.04	40.56
PORTOLA STATE PARK	66.13	0.03	0.43	0.13	2.02	3.99	11.28	22.48	16.64	3.85	4.67	T	0.61	0	0	0.02	65.56
SAN FRANCISCO SUNSET	26.52	0.01	0.10	0.05	0.73	3.26	4.87	7.36	7.20	1.00	1.87	0.02	0.05	0	0	0.10	26.46
SAN GREGORIO 2 SE	41.15	0.15	0.42	0.28	0.86	3.67	6.52	11.97	10.74	2.45	3.02	0.19	0.88	0.11	0.04	0.11	40.56
NORTH COASTAL AREA																	
MENDOCINO COAST F8																	
BOONVILLE HMS	54.93	0	1.25	0.14	1.29	3.33	16.68	16.90	10.57	1.94	2.81	0.02	0	0	0	0.16	53.70
CLOVERDALE 11 W	-	0	-	-	-	-	-	-	-	2.39	3.91	0	0	0	0	0.03	-
FORT BRAGG	51.81	0.05	1.34	0.43	1.84	4.88	12.81	13.50	10.67	2.33	3.23	0.29	0.44	0.02	0.03	0.58	50.62
FORT BRAGG AVIATION	49.21	0.05	1.02	0.39	1.76	5.69	11.47	11.12	11.54	2.30	3.23	0.29	0.35	0	0	0.41	48.16
FORT ROSS	47.43	0	0.98	0.35	3.62	4.34	9.66	12.66	10.14	2.54	2.94	0.18	0.02	0.06	0.03	0.17	46.36
NAVARRO 1 NW	52.06	0	0.97	0	2.02	4.44	13.57	15.47	10.67	1.48	3.41	0.03	0	0	0	0.10	51.19
PHILO 2 NW	54.84	0	1.19	0.14	1.83	4.19	15.16	17.42	11.19	1.19	2.53	0	0	0	0	0.08	53.59
PHILO 4 NW	56.34	0	1.42	0.21	1.89	4.48	14.30	17.12	12.28	2.11	2.47	0.03	0.03	0	0	0.14	54.85
POINT ARENA	56.49	0.02	1.07	0.23	2.16	4.56	13.09	16.27	12.87	2.26	3.62	0.24	0.10	0	0	0.30	55.47
SKAGGS SPRING LAS LOMAS	78.88	0	2.00	0.20	3.82	4.64	18.43	24.00	17.93	2.69	4.85	0.29	0.03	0	0	0	76.68
YORKVILLE	74.8	0	2.5	0.1	3.1	5.5	18.9	23.1	15.8	2.0	3.8	0	0	0	0	0.1	72.3

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1968						1969									Total Oct. 1 to Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
NORTH COASTAL AREA																	
RUSSIAN RIVER F9																	
ALPINE DAM	68.94	0	1.32	0	6.04	6.70	15.90	18.30	14.06	3.25	3.37	0	0	0	0	0	67.62
BLAKES LANDING	-	-	0.40	0.10	2.15	3.82	9.35	10.15	7.65	1.60	2.25	-	-	0	0	0.10	-
BON TEMPE DAM	59.07	0	0.75	0	4.01	4.66	13.11	15.85	15.20	2.70	2.79	0	0	0	0	0	58.32
CAZADERO	97.51	0	1.56	0.35	6.38	6.68	20.61	31.68	21.32	3.70	4.89	0.34	0	0	0	0.03	95.63
CLOVERDALE 3 SSE	61.97	0	1.18	T	2.75	4.19	14.04	18.93	15.02	2.30	3.54	T	0.02	0	0	0	60.79
COYOTE DAM	48.30	0	1.65	0.14	1.19	4.10	15.98	12.84	8.28	1.47	2.60	0	0.05	0	0	0	46.51
GEYSERVILLE HOCKING	-	0	2.20	0	-	3.26	11.36	15.58	11.90	RE							
GRATON	56.33	0	0.83	0.04	3.07	4.99	14.32	16.70	10.57	2.63	3.13	0.05	0	0	0	0.02	55.48
GRATON 1 W	-	RE															
GUERNEVILLE	61.74	0	1.30	0.03	3.37	5.19	15.07	15.30	14.91	2.95	3.55	0.07	0	0	0	0.01	60.42
HEALDSBURG	62.28	0	0.86	0.03	2.79	4.07	13.47	20.38	15.50	2.02	3.13	0.03	T	0	0	0.01	61.40
HEALDSBURG NO. 2	59.00	0	0.65	0.03	2.69	3.87	12.82	18.75	14.59	2.29	3.31	0	T	0	0	0	58.32
HOPLAND LARGO STATION	-	-	-	-	RE												
KELLOGG	68.31	0	1.08	0.17	4.47	3.35	13.67	22.38	14.38	3.48	4.69	0.32	0.32	0	0	0	67.06
KENT LAKE	90.62	0	1.15	0.07	7.52	7.79	21.25	26.57	17.43	4.70	3.77	0.15	0.22	0	0	0.01	89.41
KNIGHTS VALLEY	-	0	0.96	0.23	2.99	1.75	15.09	20.59	12.37	RE							
LAGUNITAS LAKE	78.00	0	0.75	0	6.38	6.45	17.03	22.91	18.46	2.70	3.32	0	0	0	0	0	77.25
MOUNT TAMALPAIS 2 SW	53.3	0	1.1	0.2	3.6	6.7	13.1	12.1	11.1	2.6	2.8	0	0	0	0	0.1	52.1
NICASIO	48.05	0	0.36	0.06	3.94	5.35	10.08	11.97	10.89	2.06	3.24	0.02	0.08	0	0	0.02	47.65
NOVATO 8 WNW	-	0	-	0	-	-	-	-	-	1.19	-	-	0	0	0	0	-
OCCIDENTAL	70.05	0	0.99	0.19	3.58	5.83	17.16	21.05	13.61	3.46	3.98	0.20	0	0	0	0.16	69.03
PHOENIX LAKE DAM	78.21	0	0.66	0	5.45	6.17	18.02	22.86	19.22	2.51	3.32	0	0	0	0	0	77.55
POTTER VALLEY 3 SE	42.75	0	1.53	0.13	1.33	4.42	10.77	12.58	8.45	1.27	2.21	0.02	0.04	0	0	0	41.09
POTTER VALLEY POWERHOUSE	60.94	0	2.37	0.11	2.61	5.33	16.03	19.02	10.15	1.87	3.16	0.07	0.22	0	0	0	58.46
REDWOOD VALLEY	47.11	0	1.37	0.12	1.30	4.69	14.05	13.79	8.59	0.71	2.29	0	0.20	0	0	0	45.62
SANTA ROSA SEWAGE PLANT	41.16	T	0.57	0.02	2.67	3.56	9.76	11.99	8.02	1.64	2.89	0.02	0.02	0	0	0.02	40.59
SANTA ROSA	42.82	0	1.68	0.02	2.07	3.39	9.09	13.25	8.23	1.79	3.23	0.03	0.04	0	0	0.03	41.15
SEBASTOPOL 4 SSE	-	0	0.6	0	2.5	4.3	10.0	-	-	2.1	-	0	0	0	0	0.1	-
THE GEYSERS	72.77	0	1.62	0	3.14	3.13	14.97	23.77	19.35	1.27	5.41	0	0.11	0	0	0	71.15
UKIAH	51.51	0	1.35	0.07	1.22	4.57	15.69	15.11	9.34	1.29	2.82	0	0.05	0	0	0.01	50.10
UKIAH 4 WSW	61.01	0	2.40	0.20	2.01	5.59	16.17	18.52	10.51	2.34	3.15	0.11	0.01	0	0	0.08	58.49
VENADO	91.8	0	2.5	0.1	3.9	5.1	20.3	31.3	21.3	2.0	4.9	0.1	0.3	0	0	0	89.2
WOODACRE	52.58	T	0.66	0.03	1.23	4.63	12.92	11.90	17.48	0.93	2.80	0	0	0	0	0.04	51.93

TABLE A-3

EVAPORATION DATA

The definition of terms and the abbreviations used in connection with Table A-3 are as follows:

EVAP	The total amount of water evaporated from the pan in inches for the month.
WIND	The amount of movement of air over the pan in miles for the month.
AVG MAX	The arithmetic average of daily maximum water temperatures in degrees Fahrenheit for the month.
AVG MIN	The arithmetic average of daily minimum water temperatures in degrees Fahrenheit for the month.
-	Record incomplete.
RB	Record began.
RE	Record ended.

TABLE A-3 (Cont.)

EVAPORATION DATA

Evaporation in Inches
Wind in Total Miles
Water Temperature in Degrees Fahrenheit

Station Name		Total July 1 to June 30	1968						1969									Total Oct 1 to Sept 30
			July	Aug	Sept	Oct.	Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept.	
CENTRAL COASTAL AREA																		
LOWER SALINAS RIVER D2																		
SOLEDAD C T F	EVAP	63.93	8.04	7.74	7.14	4.74	2.88	2.50	2.47	2.21	4.92	6.14	7.76	7.39	7.87	7.90	5.93	62.71
	WIND	59159	5790	4942	4522	3949	3686	4438	5044	4547	4329	5304	6162	6446	5187	4128	3966	57186
	AVG MAX		-	-	78.3	71.4	64.7	53.6	58.3	60.1	68.8	75.3	79.4	81.6	84.3	81.0	80.3	
	AVG MIN		-	-	53.9	49.8	47.0	37.8	40.3	40.6	42.5	44.4	46.4	51.7	51.8	52.0	54.8	
UPPER SALINAS RIVER T9																		
NACIMIENTO DAM	EVAP	66.12	11.76	10.33	8.05	4.43	1.84	1.34	1.40	1.31	4.09	5.17	8.33	8.07	11.02	10.77	7.86	65.63
SAN FRANCISCO BAY AREA																		
NAPA-SOLANO E3																		
DUTTONS LANDING	EVAP	61.17	9.09	7.97	7.27	4.03	1.66	1.06	1.00	1.45	4.05	6.24	8.72	8.63	9.72	9.10	6.29	61.95
	WIND	-	-	3091	2849	2055	1604	1993	2294	1936	1738	-	3413	4192	3240	2319	2390	-
	AVG MAX		85.6	83.4	83.5	72.5	-	-	51.5	57.3	68.6	75.3	83.1	81.0	84.6	85.9	83.5	
	AVG MIN		56.9	57.9	57.5	51.8	-	-	39.1	41.9	43.4	46.5	51.9	55.2	55.6	55.1	54.5	
GRIZZLY ISLAND	EVAP						RB	0.84	1.43	2.08	3.79	4.85	8.28	3.95	10.25	9.98	7.66	-
	WIND						RB	1197	1857	1584	1420	1536	2403	2723	2062	1718	1837	-
	AVG MAX						RB	50.7	51.2	56.4	67.0	74.7	83.3	82.0	89.4	89.8	84.8	
	AVG MIN						RB	38.7	39.5	42.3	43.1	47.5	52.5	57.3	60.2	57.5	56.3	
YOUNTVILLE GAMBLE	EVAP	-	10.18	7.00	6.94	3.36	1.63	RE										
	WIND	-	3109	2621	2451	1774	1801	RE										
ALAMEDA CREEK E5																		
LIVERMORE SEWAGE PLANT	EVAP	-	12.53	9.50	9.23	-	1.83	1.54	0.66	1.08	4.89	5.92	9.99	8.98	13.08	12.85	9.43	-
	WIND	-	4290	3950	3350	-	2300	2520	3400	3320	2680	3040	4280	5101	3680	2620	2470	-
NEWARK	EVAP	63.30	9.74	8.38	7.22	4.23	2.05	1.50	1.43	1.62	4.41	6.07	8.51	8.14	9.38	8.86	6.45	62.65
	WIND	34517	3623	3739	3247	2861	2942	3497	3856	3782	3109	1342	1450	1069	1184	795	985	26872
SANTA CLARA VALLEY E6																		
ALAMITOS PERCOLATION POND	EVAP	58.80	9.02	7.71	6.52	3.63	1.79	1.58	2.18	2.00	3.92	5.75	7.61	7.09	8.76	8.42	6.28	59.01
	WIND	13646	899	973	934	881	772	1055	1120	1346	1252	1499	1462	1453	1124	814	793	13571
LEROY ANDERSON DAM	EVAP	62.20	10.44	8.53	7.89	4.72	2.12	1.42	1.18	1.81	4.26	4.12	8.20	7.51	10.63	10.64	7.42	64.03
	WIND	20900	1742	1810	1795	1408	1095	1557	1534	1467	2078	2163	2168	2083	1804	1661	1497	20515
LEXINGTON RESERVOIR	EVAP	55.47	8.63	7.26	6.23	4.04	1.61	6.49	0.73	1.79	3.00	4.17	6.34	5.18	9.32	8.54	6.02	57.23
	WIND	9904	591	757	653	643	660	1364	1337	1306	547	655	628	763	-	528	703	-
BAYSIDE-SAN MATEO E7																		
BURLINGAME	EVAP	52.07	8.80	6.73	6.22	3.29	1.37	0.88	0.65	1.09	3.33	5.76	7.43	6.52	9.41	8.37	5.94	54.04
	WIND	22066	2556	2090	1887	1434	1301	1157	1132	1312	1973	2258	2508	2458	2628	2528	2411	23100
	AVG MAX		83.3	81.9	80.7	73.8	65.1	58.6	53.9	57.8	68.1	73.1	81.0	72.6	78.2	76.9	74.5	
	AVG MIN		56.8	59.7	56.3	52.6	49.3	42.3	43.6	44.9	46.1	49.1	54.1	53.2	53.7	49.5	53.9	
NORTH COASTAL AREA																		
RUSSIAN RIVER F9																		
COYOTE DAM	EVAP	66.14	13.58	8.36	8.09	4.07	1.31	1.04	2.77	1.52	3.94	5.30	7.81	8.35	12.05	10.71	8.58	67.45
	WIND	-	-	1684	1604	1328	694	705	2694	1245	736	-	593	1731	2059	1101	963	-
	AVG MAX		89.5	82.4	83.5	71.1	-	-	51.3	50.3	68.7	73.1	83.3	84.7	92.3	87.6	83.9	
	AVG MIN		55.5	52.9	52.5	47.5	-	-	32.0	41.7	42.9	45.8	52.7	56.1	59.8	54.9	53.3	
GEYSERVILLE HOCKING	EVAP	-	6.80	5.64	5.50	2.12	1.36	-	-	-	RE							
	WIND	-	2961	2451	-	-	-	-	2695	2612	RE							
KNIGHTS VALLEY	EVAP	-	-	-	4.82	-	-	-	-	1.19	RE							
	WIND	-	-	-	-	-	-	-	1150	1170	RE							
	AVG MAX		-	-	-	-	-	-	51.9	54.1	RE							
	AVG MIN		-	-	-	-	-	-	41.2	41.1	RE							
SANTA ROSA SEWAGE PLANT	EVAP	65.19	9.36	7.19	7.49	4.32	2.15	3.62	2.86	2.44	4.88	6.59	6.91	7.38	9.57	9.76	7.59	68.07
	WIND	26085	2840	2714	2167	1667	1318	1521	2847	1880	1584	2702	2530	2315	2871	2133	2019	25387

Appendix B

SURFACE WATER MEASUREMENTS

INTRODUCTION

In this appendix, surface water data are presented for the period October 1, 1968, through September 30, 1969. These data consist of imported water to the report area, daily mean gage heights, and daily maximum and minimum tides. Data station locations are shown on Figure D-1, pages 58, 59, 60, and 61.

A comprehensive alphabetical list of historical, as well as present streamflow and water stage gaging stations, is included in Department of Water Resources Bulletin No. 157, "Index to Stream Gaging Stations in and Adjacent to California", to be published in 1970. The station numbering system used in this bulletin is described in Bulletin No. 157.

TABLE B-1

SURFACE WATER IMPORTS TO THE CENTRAL COASTAL AREA

IMPORT	1969 Water Year												
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
CITY OF VALLEJO FROM CACHE SLOUGH a													
Total acre-feet	1334	859	1102	713	655	753	884	1357	1334	1425	1422	1363	13201
Average cubic feet per second	22	14	18	12	12	12	15	22	22	23	23	23	18
Monthly quantities in percent of seasonal	10.1	6.5	8.3	5.4	5.0	5.7	6.7	10.3	10.1	10.8	10.8	10.3	
CONTRA COSTA CANAL b													
Total acre-feet	9201	6800	5404	3712	3329	3282	4377	6665	6719	9450	10852	8317	78108
Average cubic feet per second	150	114	88	60	60	53	74	108	113	154	176	140	108
Monthly quantities in percent of seasonal	11.8	8.7	6.9	4.8	4.3	4.2	5.6	8.5	8.6	12.1	13.9	10.6	
HETCH HETCHY AQUEDUCT c													
Total acre-feet	25781	22165	23504	6210	5659	7311	14400	18460	20940	21582	21483	21033	208528
Average cubic feet per second	419	372	382	101	102	119	242	300	352	351	349	353	288
Monthly quantities in percent of seasonal	12.4	10.6	11.3	3.0	2.7	3.5	6.9	8.9	10.1	10.4	10.3	10.1	
MOKELUMNE RIVER AQUEDUCT d													
Total acre-feet	16641	15581	12066	13364	15390	13236	16150	16302	18351	22149	22127	18316	199670
Average cubic feet per second	271	262	196	217	277	215	271	265	308	360	360	308	276
Monthly quantities in percent of seasonal	8.3	7.8	6.0	6.7	7.7	6.6	8.1	8.2	9.2	11.1	11.1	9.2	
POTTER VALLEY POWERHOUSE FROM EEL RIVER e													
Total acre-feet	17250	17800	18020	17830	16080	17880	17190	18380	14920	13050	13230	17240	198870
Average cubic feet per second	281	299	293	290	289	291	289	299	251	212	215	290	275
Monthly quantities in percent of seasonal	8.6	9.0	9.1	9.0	8.1	9.0	8.6	9.2	7.5	6.6	6.6	8.7	
PUTAH SOUTH CANAL b													
Total acre-feet	24982	962	758	1478	1373	2463	7720	27899	31133	33818	27917	18311	178810
Average cubic feet per second	406	16	12	24	25	40	130	454	523	550	454	308	247
Monthly quantities in percent of seasonal	14.0	0.5	0.5	0.8	0.8	1.4	4.3	15.6	17.4	18.9	15.6	10.2	
SOUTH BAY AQUEDUCT													
Total acre-feet	9584	5354	5748	4632	979	1318	1838	702	1471	5255	8055	8411	53347
Average cubic feet per second	156	90	93	75	18	21	31	11	25	85	131	141	74
Monthly quantities in percent of seasonal	18.0	10.0	10.8	8.7	1.8	2.5	3.4	1.3	2.8	9.8	15.1	15.8	

a Data furnished by City of Vallejo.
b Data furnished by U. S. Bureau of Reclamation.
c Data furnished by the City of San Francisco.
d Data furnished by East Bay Municipal Utility District.
e Data furnished by U. S. Geological Survey.

TABLE B-2

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	E31400	RECTOR RESERVOIR NEAR YOUNTVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	351.19	349.78	NR	NR	370.27	370.49	370.12	370.15	369.58	367.88	366.51	362.74	1
2	351.07	349.89	NR	369.18	370.25	370.48	370.10	370.17	369.54	367.83	366.48	362.48	2
3	350.97	349.97	NR	369.39	370.24	370.39	370.09	370.17	369.45	367.78	366.48	362.38	3
4	350.86	349.99	NR	369.57	370.23	370.36	370.08	370.17	369.34	367.75	366.37	362.31	4
5	350.76	350.02	NR	369.75	370.50	370.31	370.10	370.12	369.23	367.73	366.27	362.17	5
6	350.67	350.04	NR	369.89	370.37	370.29	370.15	370.11	369.12	367.72	366.16	362.06	6
7	350.60	350.06	NR	370.05	370.30	370.27	370.13	370.10	369.03	367.63	366.04	361.92	7
8	350.56	350.09	NR	370.14	370.40	370.26	370.13	370.09	368.92	367.59	365.89	361.76	8
9	350.45	350.11	NR	370.15	370.52	370.26	370.14	370.08	368.83	367.56	365.76	361.63	9
10	350.34	350.13	NR	370.15	370.42	370.23	370.15	370.12	368.73	367.52	365.62	361.49	10
11	350.26	350.17	NR	370.26	370.60	370.20	370.11	370.13	368.63	367.44	365.51	361.36	11
12	350.34	350.19	NR	370.84	370.47	370.24	370.09	370.13	368.57	367.39	365.37	361.26	12
13	350.28	350.20	NR	370.75	370.40	370.22	370.07	370.12	368.52	367.35	365.34	361.13	13
14	350.19	NR	NR	370.51	370.88	370.21	370.09	370.10	368.51	367.33	365.10	361.01	14
15	350.11	NR	NR	370.41	370.62	370.21	370.17	370.10	368.49	367.25	364.95	360.91	15
16	350.02	NR	NR	370.35	370.48	370.21	370.18	370.08	368.44	367.21	364.80	360.77	16
17	349.93	NR	NR	370.32	370.42	370.21	370.18	370.06	368.42	367.16	364.65	360.66	17
18	349.83	NR	NR	370.75	370.37	370.20	370.18	370.03	368.38	367.07	364.54	360.56	18
19	349.77	NR	NR	370.89	370.31	370.21	370.18	370.03	368.34	367.05	364.41	360.46	19
20	349.68	NR	NR	370.46	370.29	370.21	370.17	369.88	368.29	367.03	364.24	360.34	20
21	349.60	NR	NR	370.86	370.27	370.21	370.17	369.86	368.26	366.98	364.12	360.23	21
22	349.61	NR	NR	370.55	370.27	370.22	370.17	369.83	368.25	366.91	363.99	360.12	22
23	349.61	NR	NR	370.41	370.28	370.22	370.20	369.80	368.21	366.86	363.87	360.01	23
24	349.61	NR	NR	370.39	370.37	370.21	370.22	369.79	368.15	366.83	363.74	359.87	24
25	349.61	NR	NR	370.73	370.49	370.21	370.22	369.78	368.12	366.76	363.62	359.77	25
26	349.62	NR	NR	370.58	370.39	370.22	370.22	369.76	368.08	366.73	363.47	359.55	26
27	349.63	NR	NR	370.46	370.44	370.22	370.21	369.72	368.03	366.71	363.32	359.53	27
28	349.64	NR	NR	370.37	370.71	370.20	370.18	369.69	368.01	366.67	363.17	359.40	28
29	349.74	NR	NR	370.37		370.19	370.17	369.63	367.98	366.62	363.03	359.28	29
30	349.74	NR	NR	370.36		370.15	370.15	369.61	367.93	366.59	362.89	359.16	30
31	349.78		NR	370.29		370.14		369.59		366.58	362.75		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-13-69	0900	371.67									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 26 24	122 20 36	SE 19 7N 4W					MAY 1948-DATE	5-48		0.00	USCGS

Rector Reservoir is located on Rector Creek about 3 miles northeast of Yountville. Gaging station is located on the outlet tower of the reservoir. Elevation of reservoir floor is 250 feet. Spillway elevation is 370 feet.

TABLE B-3

DAILY MAXIMUM AND MINIMUM TIDES

SACRAMENTO RIVER AT COLLINSVILLE

in feet

STATION NO.	WATER YEAR
B91110	1969

DATE	OCT.	NOV	DEC.	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG	SEP	DATE
1	5.97 1.66	5.25 1.85	5.83 1.64	6.16 1.54	6.88 3.31	6.94 3.17	6.01 2.55	6.53 2.01	7.86 2.42	7.07 1.56	5.91 1.59	6.21 2.29	1
2	5.18 1.83	5.56 1.93	5.41 1.17	6.13 1.43	6.53 2.83	6.76 3.23	6.16 2.61	6.67 1.83	7.78 2.23	6.70 1.38	5.84 1.63	6.21 2.25	2
3	5.92 1.98	5.92 2.05	5.24 1.15	6.03 1.32	6.21 2.65	6.71 3.05	6.55 2.43	6.85 1.74	7.43 2.02	6.22 1.36	6.00 2.11	6.40 2.24	3
4	5.67 2.00	5.89 1.76	5.54 1.16	5.92 1.24	6.44 3.02	6.39 2.97	6.50 2.16	6.75 1.57	6.93 1.89	5.80 1.50	6.11 2.28	6.34 2.30	4
5	5.40 2.13	5.74 1.56	5.76 1.16	5.80 1.29	6.47 3.92	6.21 3.18	7.26 2.58	6.90 1.57	6.39 1.79	6.06 1.76	6.13 2.00	6.23 2.21	5
6	5.41 1.88	5.79 1.41	5.63 1.16	5.66 1.33	6.92 4.40	6.26 3.03	7.02 2.20	7.02 1.89	6.04 1.89	6.19 2.17	6.21 1.84	5.99 2.00	6
7	5.52 1.76	5.81 1.47	5.82 1.24	5.73 3.38	6.27 3.24	6.20 2.87	6.35 1.88	6.95 1.90	6.17 2.16	6.42 2.54	6.25 1.81	6.01 1.62	7
8	5.60 1.66	5.71 3.64	5.73 3.78	5.28 1.69	6.24 3.18	6.37 2.76	6.43 1.98	5.86 1.35	6.19 2.52	6.57 2.44	6.34 1.70	5.26 1.80	8
9	5.60 1.64	5.65 1.35	5.61 1.28	5.27 1.65	6.66 3.27	6.37 2.69	6.27 1.90	5.46 1.40	6.34 2.59	6.45 2.08	5.01 1.72	6.25 2.03	9
10	5.77 3.34	5.47 1.43	6.03 1.53	5.44 1.88	6.63 2.92	6.32 2.44	5.93 1.90	5.92 1.84	6.59 2.31	6.52 1.77	6.45 1.75	6.18 2.01	10
11	5.93 1.82	5.39 1.36	4.96 3.31	5.76 2.01	7.05 3.15	6.15 2.08	5.85 1.97	5.22 2.23	5.08 2.25	5.06 1.68	6.53 1.82	6.13 2.23	11
12	5.89 2.05	4.82 1.67	4.77 1.26	6.49 2.63	7.34 3.11	6.04 1.77	5.95 2.08	6.10 2.47	6.56 1.98	6.56 1.60	6.40 1.71	6.04 2.41	12
13	5.53 1.89	4.70 1.28	5.11 1.31	7.45 2.82	7.33 2.97	6.07 1.73	5.69 2.09	6.35 2.29	6.55 1.85	6.61 1.61	6.33 1.81	6.16 2.72	13
14	5.38 1.72	5.11 1.34	5.91 2.45	7.28 2.55	7.72 3.57	6.02 1.59	5.85 2.36	6.39 1.98	6.67 1.85	6.72 1.80	6.24 1.91	6.30 2.57	14
15	4.83 1.50	5.35 2.10	6.88 2.71	7.21 2.20	8.32 3.88	5.96 1.58	5.93 2.15	6.41 1.83	6.63 1.82	6.57 1.68	5.95 1.91	6.43 3.09	15
16	4.92 1.25	5.37 1.82	6.39 1.94	7.37 2.17	7.84 3.66	6.02 1.81	5.95 1.88	6.54 1.81	6.55 1.85	6.39 1.63	5.69 2.00	6.39 2.38	16
17	5.15 1.43	5.60 1.70	6.56 1.52	7.25 2.15	7.80 3.92	6.02 2.00	6.12 1.87	6.41 1.72	6.62 2.00	6.14 1.56	5.97 2.48	6.45 2.11	17
18	4.97 1.69	5.93 1.53	6.69 1.57	7.46 2.87	7.53 4.07	5.75 2.09	6.29 1.82	6.62 1.96	6.17 1.64	5.96 1.71	6.10 2.72	6.36 1.93	18
19	5.21 1.80	6.19 1.44	7.16 1.82	8.17 3.58	7.35 3.93	5.74 2.08	5.89 1.53	6.33 1.78	5.89 1.78	5.59 1.83	6.27 2.56	6.49 1.77	19
20	5.50 1.92	6.23 1.21	6.89 1.52	8.05 5.09	7.09 4.16	6.04 2.25	5.78 1.51	6.03 1.77	5.57 1.85	5.86 2.11	6.33 2.26	6.47 1.79	20
21	5.66 1.60	6.39 1.21	o.62 1.34	7.69 3.70	6.75 3.80	6.25 2.22	5.87 1.75	5.93 1.93	5.35 1.77	6.17 2.61	6.52 1.89	6.47 1.69	21
22	5.85 1.42	6.26 3.19	6.12 3.15	7.29 3.98	6.64 3.76	6.16 2.18	5.76 2.13	5.65 1.96	5.55 1.97	6.42 2.80	6.95 1.87	6.40 1.76	22
23	6.09 1.43	6.14 1.17	5.76 1.21	7.02 4.21	6.80 3.82	5.66 1.92	5.86 2.33	5.46 2.08	5.90 2.45	6.73 2.46	6.95 2.03	5.64 1.91	23
24	6.23 2.97	6.02 1.29	6.06 1.34	7.15 4.15	7.25 4.09	5.45 1.84	4.92 1.55	5.57 2.13	6.11 2.48	6.86 2.08	6.74 1.76	6.30 2.01	24
25	6.35 1.44	5.09 1.35	6.09 2.00	7.63 4.80	6.61 3.66	5.43 1.95	4.73 1.47	5.67 2.32	6.46 2.18	7.12 1.78	5.04 1.52	6.08 2.11	25
26	6.19 1.49	4.71 1.16	6.14 2.41	7.98 5.21	6.32 3.23	5.27 1.81	4.53 1.61	6.08 2.68	6.72 1.72	7.28 1.74	6.65 1.60	6.37 2.48	26
27	5.86 1.46	4.76 1.16	5.96 2.30	7.18 4.77	6.64 3.54	5.17 1.75	5.08 1.86	6.23 2.57	4.71 1.62	5.29 1.77	6.43 1.63	6.56 2.46	27
28	5.89 1.57	4.93 1.22	6.34 2.34	7.49 4.77	7.26 3.75	5.41 1.91	5.44 2.21	4.85 2.19	6.89 1.39	7.22 1.70	6.18 1.77	6.42 2.10	28
29	5.53 1.79	5.13 1.46	6.12 1.91	6.93 3.98		5.71 2.04	5.87 2.45	6.54 1.96	6.93 1.36	7.08 1.74	5.97 1.96	6.42 3.48	29
30	5.21 1.75	5.54 1.74	6.11 1.64	7.02 3.69		5.83 2.14	6.22 2.22	6.87 1.85	7.04 1.38	6.85 1.71	6.06 2.25	6.17 2.08	30
31	5.21 1.74		6.07 1.56	6.86 3.39		5.98 2.53.		7.21 1.94		6.45 1.61	6.14 2.35		31
MAXIMUM	6.35	6.39	7.16	8.17	8.32	6.94	7.26	7.21	7.86	7.28	6.95	6.56	MAXIMUM
MINIMUM	1.25	1.16	1.15	1.24	2.65	1.58	1.47	1.35	1.36	1.36	1.52	1.62	MINIMUM

E– Estimated
NR– No Record

CREST STAGES											
DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 04 25	121 51 18	SW 27 3N 1E		9.2	4-6-1958		JUNE 1929-DATE	1929		0.00	USED
								1929		-3.05	USCGS
									1964	-3.54	USCGS
								1964		-3.00	USCGS

Station located 0.4 mile southwest of Collinsville, 3.3 miles northeast of Pittsburg.

TABLE B-3 (Cont.)

DAILY MAXIMUM AND MINIMUM TIDES

SUISUN BAY AT BENICIA

in feet

STATION NO	WATER YEAR
E03300	1969

DATE	OCT.	NOV	DEC.	JAN.	FEB.	MAR	APR	MAY	JUNE	JULY	AUG	SEP.	DATE
1	3.11 -2.38	2.73 -1.91	3.22 -2.38	3.43 -2.77	NR NR	NR NR	3.39 -1.41	2.83 -2.37	4.97 -3.08	4.39 -3.43	3.12 -2.53	3.44 -1.33	1
2	3.10 -2.24	3.12 -1.83	2.78 -3.03	3.41 -2.87	NR NR	NR NR	3.82 -1.42	2.39 -2.73	4.65 -3.28	4.07 -3.44	3.19 -2.02	3.31 0.47	2
3	2.93 -2.14	3.39 -1.93	2.62 -3.36	3.33 -2.97	NR NR	NR NR	4.14 -1.91	4.05 -3.39	4.32 -3.30	3.32 -3.28	3.29 -1.48	3.42 -1.45	3
4	2.69 -2.03	3.34 -2.22	2.87 -3.06	3.23 -3.02	NR NR	NR NR	4.16 -2.17	3.93 -3.48	4.03 -3.28	3.20 -2.81	3.35 -1.42	3.31 -1.33	4
5	2.76 -1.77	3.16 -2.47	3.10 -3.02	3.12 -2.90	NR NR	NR NR	4.96 -1.80	4.16 -3.37	3.54 -3.04	3.38 -2.18	3.21 -1.63	3.24 -1.71	5
6	2.87 -1.90	3.16 -2.61	2.92 -3.08	3.01 -2.77	NR NR	NR NR	4.60 -2.34	4.24 -2.90	3.26 -2.53	3.55 -1.32	3.22 -1.90	3.13 0.85	6
7	3.01 -2.06	3.08 -2.56	3.06 -2.33	2.91 -2.32	NR NR	NR NR	4.04 -2.61	3.97 -2.78	3.38 -1.78	3.65 -1.25	3.26 -2.04	3.19 -2.28	7
8	3.07 -2.17	2.97 -2.58	2.99 -2.67	2.52 -2.25	NR NR	3.87 -1.51	3.91 -2.32	3.00 -3.22	3.40 -1.18	3.64 -1.56	3.41 -2.22	3.33 -2.14	8
9	3.00 -2.20	2.87 -2.38	2.89 -2.23	2.65 -1.85	NR NR	3.82 -1.51	3.72 -2.33	2.73 -2.81	3.50 -1.50	3.54 -2.00	3.33 -2.27	3.28 -1.97	9
10	3.03 -2.03	2.75 -2.37	3.15 1.43	NR NR	NR NR	3.83 -1.68	3.31 -2.31	3.06 -2.28	3.67 -1.93	3.63 -2.44	3.60 -2.24	3.26 -1.90	10
11	3.12 -1.56	2.53 1.06	2.20 -1.86	NR NR	NR NR	3.37 -2.09	3.33 -2.24	3.22 -1.90	3.68 -2.24	3.73 -2.56	2.37 -2.24	3.12 -1.61	11
12	2.98 -1.75	1.92 -2.11	2.16 -2.50	NR NR	NR NR	3.35 -2.48	3.43 -2.28	3.47 -1.81	3.71 -2.64	3.73 -2.70	3.53 -2.33	3.41 -1.24	12
13	2.20 1.20	1.89 -2.43	2.50 -2.30	NR NR	NR NR	3.53 -2.73	3.45 -2.19	3.54 -2.10	3.77 -2.89	2.48 -2.68	3.49 -2.20	3.55 -1.08	13
14	2.43 -1.83	2.48 -2.30	3.26 -1.20	NR NR	NR NR	3.57 -2.99	3.05 -1.70	3.53 -2.60	2.43 -2.90	3.86 -2.44	3.35 -2.18	3.65 -1.33	14
15	2.04 -2.11	2.80 -1.10	4.29 -1.17	NR NR	NR NR	3.55 -3.08	3.51 -2.09	2.38 -2.83	3.78 -2.82	3.72 -2.56	3.02 -2.02	3.61 -1.61	15
16	2.18 -2.50	2.88 -1.79	3.77 -2.30	NR NR	NR NR	3.66 -2.76	3.53 -2.42	3.62 -3.00	3.73 -2.62	3.51 -2.55	2.91 -1.60	3.57 -1.86	16
17	2.42 -2.33	3.17 -2.11	3.86 -2.94	NR NR	NR NR	3.69 -2.43	3.64 -2.49	3.60 -3.01	3.68 -2.50	3.28 -2.55	3.14 -1.36	3.48 -1.96	17
18	2.48 -2.11	3.52 -2.55	4.13 -3.10	NR NR	NR NR	3.46 -2.14	3.76 -2.65	3.72 -2.66	3.32 -2.81	3.03 -2.35	3.29 -1.11	3.52 -2.19	18
19	2.69 -2.01	3.78 -2.79	4.54 -2.93	NR NR	NR NR	3.44 -2.10	3.39 -2.82	3.45 -2.93	3.02 -2.51	2.85 -2.06	3.46 -0.26	3.60 -2.22	19
20	2.94 -2.01	3.82 -3.16	4.38 -3.21	NR NR	NR NR	3.73 -1.82	3.27 -2.55	3.09 -2.62	2.64 -2.21	3.11 -1.60	3.49 -1.49	3.68 -2.39	20
21	3.24 -2.43	3.96 -3.25	4.13 -3.31	NR NR	NR NR	3.93 -1.88	3.29 -2.13	2.89 -2.31	2.52 -1.96	3.42 -0.86	3.60 -1.89	3.62 -2.37	21
22	3.43 -2.72	3.74 -3.36	3.39 -3.25	NR NR	NR NR	3.64 -1.89	3.15 -1.70	2.57 -2.03	2.74 -1.53	3.39 -1.01	3.98 -2.10	3.59 -2.31	22
23	3.67 -2.80	3.54 -2.99	3.16 -2.88	NR NR	NR NR	3.13 -1.81	3.38 -1.14	2.30 -1.88	3.01 -0.95	3.80 -1.49	3.98 -2.21	3.44 -2.13	23
24	3.78 -2.77	3.19 -2.87	3.32 0.54	NR NR	NR NR	2.96 -1.63	2.42 -1.83	2.56 -1.61	3.31 -1.48	3.97 -1.95	3.99 -2.51	3.40 -1.89	24
25	3.79 -2.68	2.32 -0.28	3.52 -1.97	NR NR	NR NR	2.89 -1.46	2.07 -1.92	2.69 -1.29	3.62 -2.09	4.18 -2.42	3.95 -2.83	3.82 -1.36	25
26	3.54 0.49	2.01 -3.24	3.55 -1.41	NR NR	NR NR	2.73 -1.57	2.46 -1.81	3.12 -0.95	3.95 -2.73	4.38 -2.70	2.49 -2.77	NR NR	26
27	3.13 -2.59	2.19 -2.84	3.25 -1.61	NR NR	NR NR	2.65 -1.71	2.93 -1.60	3.31 -1.55	4.16 -3.04	4.46 -2.91	3.76 -2.67	NR NR	27
28	2.99 -2.56	2.43 -2.57	3.62 -1.64	NR NR	NR NR	2.85 -1.73	3.39 -1.49	3.68 -2.30	4.31 -3.38	2.52 -2.95	3.52 -2.45	NR NR	28
29	2.74 -2.08	2.61 -2.09	3.32 -2.21	NR NR		3.11 -1.93	3.75 -1.44	4.04 -2.88	4.43 -3.76	4.29 -3.03	3.28 -2.07	NR NR	29
30	2.59 -2.10	2.88 -2.05	3.32 -2.59	NR NR		3.27 -1.93	2.88 -1.94	2.39 -3.22	2.49 -3.64	4.07 -2.90	3.44 -1.56	NR NR	30
31	2.66 -2.10		3.36 -2.75	NR NR		3.47 -1.61		3.03 -3.29		3.63 -2.81	3.46 -1.50		31
MAXIMUM	3.79	3.96	4.54	NR	NR	NR	4.96	4.24	4.97	4.46	3.99	NR	MAXIMUM
MINIMUM	-2.80	-3.36	-3.36	NR	NR	NR	-2.82	-3.48	-3.76	-3.44	-2.83	NR	MINIMUM

E- Estimated
NR- No Record

CREST STAGES											
DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
38 02 27	122 08 04	SW 6 2N 2W		5.7	4-6-1958		JUN 29-APR 40	1929	1940	-2.21	USCGS
							APR 40-DATE	1940	1942	-5.00	USCGS
								1942		0.00	USCGS

Station located on channel side of wharf (formerly located on inshore side of wharf) immediately southeast of Benicia. Maximum gage height listed does not indicate maximum discharge. Period of record intermittent from 1929 to 1940.

TABLE B-4

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision					Change or Revision	
Report	Page	Mile & Bank	Name	Item	From	To
				1962		
Bulletin No. 23-62	394		Suisun Bay at Benicia Arsenal	Daily Maximum and Minimum Tides for the period 3-1-62 to 3-28-62, inclusive	Published values	2.00 feet lower than published values
				Maximum for March 1962	16.72	14.72
				1963		
Bulletin No. 130-63	B-7		Suisun Bay at Benicia Arsenal	Maximum Gage Height of Record	6.72	5.7
				Date of Maximum Gage Height of Record	3-5-62	4-6-58
				1964		
Bulletin No. 130-64	48		Suisun Bay at Benicia Arsenal	Maximum Gage Height of Record	6.72	5.7
				Date of Maximum Gage Height of Record	3-5-62	4-6-58
Bulletin No. 130-64	52		City of Vallejo from Cache Slough	Total acre-feet	Published values	Values published in Bulletin No. 130-66 Table B-2
				Average cubic feet per second	Published values	Values published in Bulletin No. 130-66 Table B-2
				Monthly quantities in percent of seasonal	Published values	Values published in Bulletin No. 130-66 Table B-2
				1967		
Bulletin No. 130-67	44		Sacramento River at Collinsville	Daily Maximum and Minimum Tides		Notation: In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.
Bulletin No. 130-67	45		Suisun Bay at Benicia Arsnnal	Daily Maximum aod Minimum Tides		Notation: In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.

Appendix C

GROUND WATER MEASUREMENT

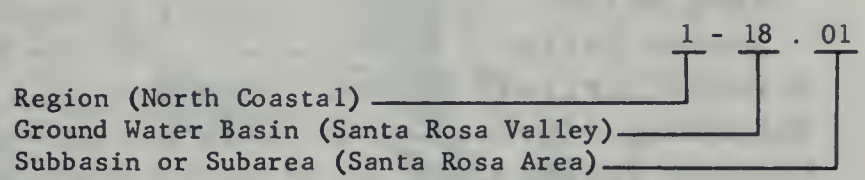
INTRODUCTION

This appendix contains ground water level measurements from 383 wells for the period October 1, 1968, through September 30, 1969. It contains tables which summarize the measurements and bar graphs of average depth to water in selected basins.

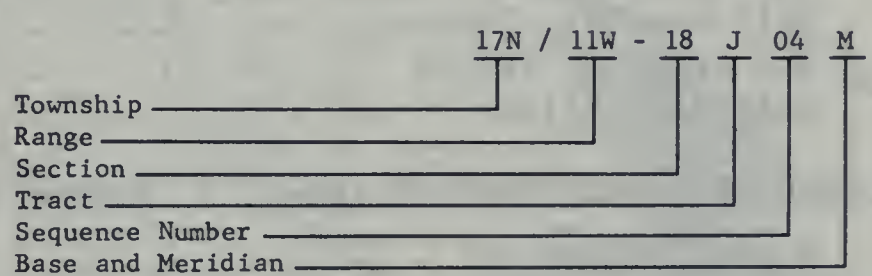
There are 33 ground water basins or areas in the Central Coastal Area for which data are reported. Wells are selected to reflect the ground water conditions of the area. These wells are continuously reviewed, and when conditions dictate, replacement wells are located and measured.

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 Northern California covered by this report comprises the southern portion of North Coastal Region No. 1, the northern portion of Central Coastal Region No. 3, and all of San Francisco Bay Region No. 2. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas 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:



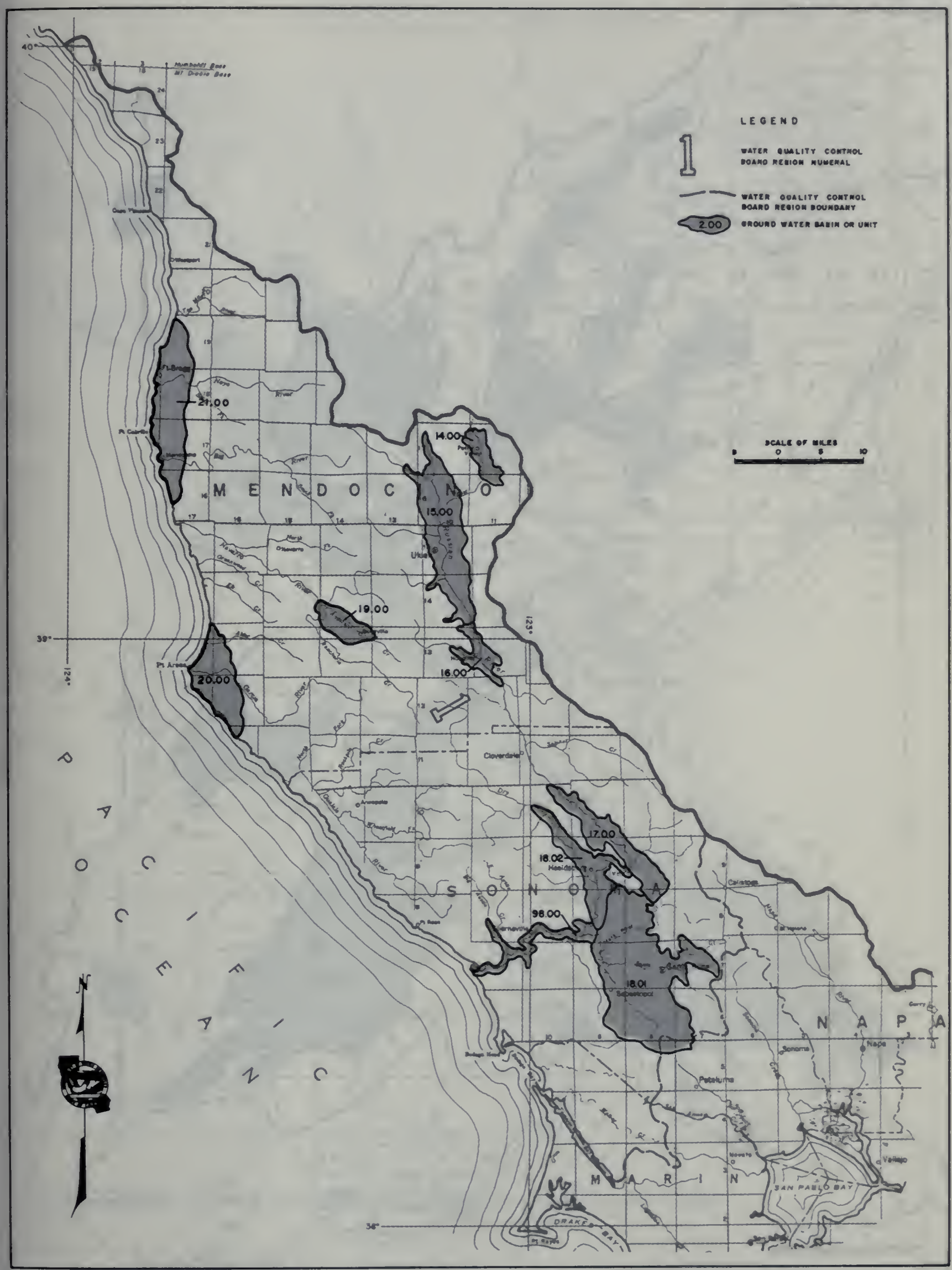
This number identifies and locates the well. In the example, the well is in Township 17 North, Range 11 West, Tract J of Section 18, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

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

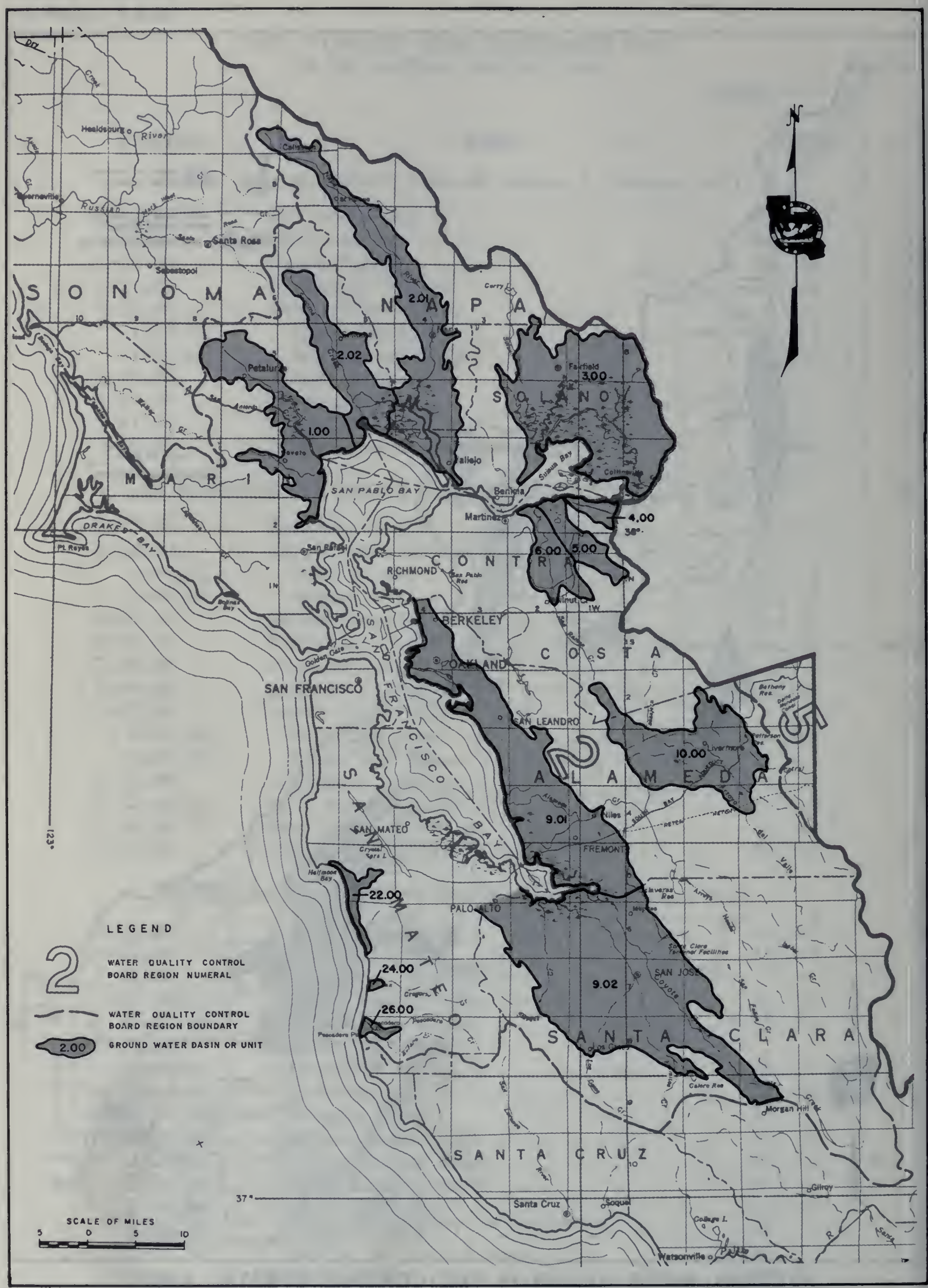
Sequence numbers in a tract are generally assigned in chronological order. The example designates the fourth well to be assigned a number in Tract J.

INDEX TO GROUND WATER MEASUREMENT DATA
IN THE CENTRAL COASTAL AREA

Number	Basin	Page
	NORTH COASTAL REGION 1-00.00 (Sheet 1, Figure C-1)	
1-14.00	Potter Valley	34, 43
1-15.00	Ukiah Valley	34, 43
1-16.00	Sanel Valley	34, 43
1-17.00	Alexander Valley	34, 43
1-18.00	Santa Rosa Valley	
1-18.01	Santa Rosa Area	34, 43
1-18.02	Healdsburg Area	34, 43
1-19.00	Anderson Valley	
1-20.00	Point Arena	
1-21.00	Fort Bragg Terrace	
1-98.00	Lower Russian River Valley	34, 43
	SAN FRANCISCO BAY REGION 2-00.00 (Sheet 2, Figure C-1)	
2-01.00	Petaluma Valley	34, 43
2-02.00	Napa-Sonoma Valley	
2-02.01	Napa Valley	34, 44
2-02.02	Sonoma Valley	34, 45
2-03.00	Suisun-Fairfield Valley	34, 45
2-04.00	Pittsburg Plain	34, 46
2-05.00	Clayton Valley	
2-06.00	Ygnacio Valley	34, 46
2-09.00	Santa Clara Valley	
2-09.01	East Bay Area	34, 46
2-09.02	South Bay Area	34, 47
2-10.00	Livermore Valley	34, 48
2-22.00	Half Moon Bay Terrace	34, 49
2-24.00	San Gregorio Valley	34, 49
2-26.00	Pescadero Valley	34, 49
	CENTRAL COASTAL REGION 3-00.00 (Sheet 3, Figure C-1)	
3-01.00	Soquel Valley	35, 49
3-02.00	Pajaro Valley	35, 49
3-03.00	Gilroy-Hollister Valley	
3-03.01	South Santa Clara County	35, 50
3-03.02	San Benito County	35, 51
3-04.00	Salinas Valley	
3-04.01	Pressure Area	35, 51
3-04.02	East Side Area	35, 52
3-04.03	Forebay Area	35
3-04.04	Arroyo Seco Cone	35, 52
3-04.05	Upper Valley Area	35, 52
3-04.06	Paso Robles Basin	35, 52
3-04.08	Seaside Area	35, 53
3-04.09	Langley Area	35
3-04.10	Corral De Tierra Area	35
3-07.00	Carmel Valley	35, 53
3-26.00	West Santa Cruz Terrace	35, 53


LEGEND
1
WATER QUALITY CONTROL BOARD REGION NUMERAL
WATER QUALITY CONTROL BOARD REGION BOUNDARY
2.00
GROUND WATER BASIN OR UNIT
SCALE OF MILES
MENDOCINO
SONOMA
NAPA
MARIN
PACIFIC OCEAN
21.00
14.00
15.00
19.00
16.00
20.00
17.00
18.02
98.00
18.01
Ukiah
Cloverdale
Petaluma
Sonoma
Napa
Vallejo
SAN PABLO BAY
DRAKES BAY
Ft. Bragg
Ft. Cuba
Ft. Arena
Ft. Ross
Bodega Head
Tomales Bay
Point Reyes
Russian River
Navarro River
Gualala River
Eel River
Mad River
Klamath River
Smith River
Trinity River
Salmon River
Scott River
Shasta River
Pit River
Sacramento River
Feather River
Yuba River
Bear River
Cache Creek
Putah Creek
Napa River
Sonoma Creek
Petaluma Creek
Tomales Bay
Bodega Bay
Humboldt Bay
Mt. Diablo Base
Ft. Bragg
Ft. Cuba
Ft. Arena
Ft. Ross
Point Reyes
Petaluma
Sonoma
Napa
Vallejo
Ukiah
Cloverdale
Healdsburg
Sebastopol
Santa Rosa
Sonoma
Petaluma
Novato
Vallejo
Napa
Calistoga

Sheet 2 FIGURE C-1



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

TABLE C-1

AVERAGE CHANGE OF GROUND WATER LEVELS AND SUMMARY OF WELL MEASUREMENTS REPORTED

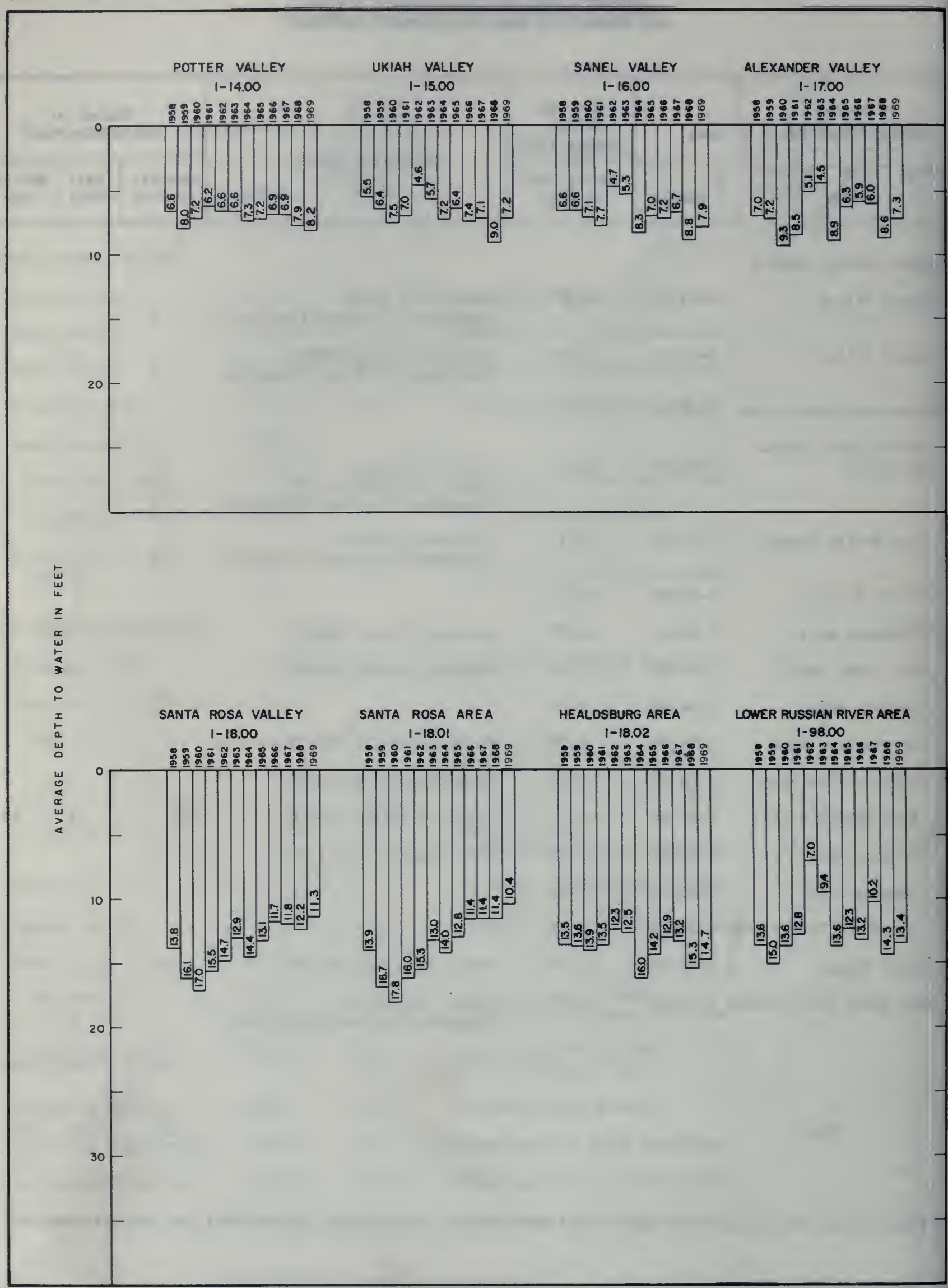
Ground Water Basin or Area		Average Change Spring 1968 to Spring 1969 in Feet	Measuring Agency	Number of Wells Reported		
Name	Number			Monthly 1968-69	Fall 1968	Spring 1969
NORTH COASTAL REGION						
Potter Valley	1-14.00	-0.3	Department of Water Resources			2
Ukiah Valley	1-15.00	+1.8	Department of Water Resources			2
Sanel Valley	1-16.00	+0.9	Department of Water Resources			3
Alexander Valley	1-17.00	+1.3	Department of Water Resources			6
Santa Rosa Valley	1-18.00					
Santa Rosa Area	1-18.01	+1.0	Department of Water Resources			13
Healdsburg Area	1-18.02	+0.6	U. S. Geological Survey	9		
Lower Russian River Valley	1-98.00	+0.9	Department of Water Resources			3
SAN FRANCISCO BAY REGION						
Petaluma Valley	2-01.00	+0.8	Department of Water Resources	6		
Napa-Sonoma Valley	2-02.00					
Napa Valley	2-02.01	-0.3	Napa County			108
			Department of Water Resources	5		6
Sonoma Valley	2-02.02	+1.4	Department of Water Resources	5		
Suisun-Fairfield Valley	2-03.00	+3.3	Solano County		17	17
			Department of Water Resources	7		
Pittsburg Plain	2-04.00	---	Department of Water Resources			5
Ygnacio Valley	2-06.00	+2.6	Department of Water Resources	4		
Santa Clara Valley	2-09.00					
East Bay Area	2-09.01	+4.2	Alameda County FC&WCD	3	6	6
			Alameda County Water District	4	2	3
South Bay Area	2-09.02	+4.7	Santa Clara Valley WCD	24		
			U. S. Geological Survey	3		
Livermore Valley	2-10.00	+2.7	Alameda County FC&WCD	5	6	5
Half Moon Bay Terrace	2-22.00	+1.8	Department of Water Resources	4	1	3
San Gregorio Valley	2-24.00	+1.9	Department of Water Resources	2		3
Pescadero Valley	2-26.00	+1.4	Department of Water Resources	3		4

TABLE C-1 (Continued)

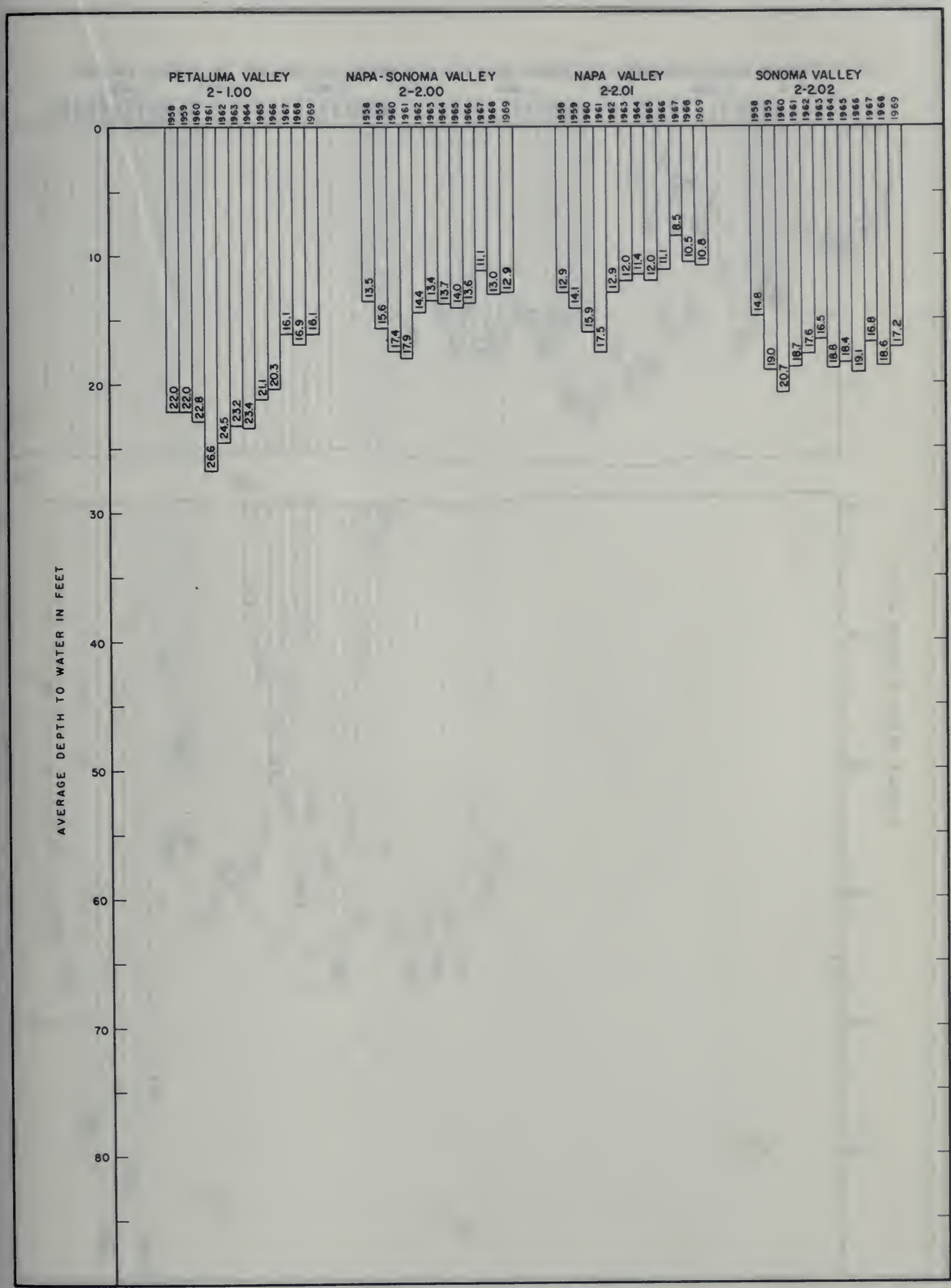
AVERAGE CHANGE OF GROUND WATER LEVELS AND SUMMARY OF WELL MEASUREMENTS REPORTED

Ground Water Basin or Area		Average Change Spring 1968 to Spring 1969 in Feet	Measuring Agency	Number of Wells Reported		
Name	Number			Monthly 1968-69	Fall 1968	Spring 1969
CENTRAL COASTAL REGION						
Soquel Valley	3-01.00	+1.8	Santa Cruz County		3	
			Department of Water Resources	3		
Pajaro Valley	3-02.00	-0.8*	Monterey County FC&WCD		5	4
			Department of Water Resources	6		
Gilroy-Holister Valley	3-03.00	+1.2				
South Santa Clara County	3-03.01	+1.9	City of Gilroy	5		
			Santa Clara Valley WCD	10		
			Department of Water Resources	5		2
San Benito County	3-03.02	+0.9	San Benito County			2
			Department of Water Resources	5		
Salinas Valley	3-04.00	-3.3				
Pressure Area	3-04.01	-4.3*	Monterey County FC&WCD	2	5	
East Side Area	3-04.02	-7.6*	Monterey County FC&WCD		1	
Forebay Area	3-04.03	-2.3*				
Arroyo Seco Cone	3-04.04	-5.2*	Monterey County FC&WCD	2		
Upper Valley Area	3-04.05	-0.6*	Monterey County FC&WCD	3	2	
Paso Robles Basin	3-04.06	+6.3	San Luis Obispo FC&WCD		38	44
Seaside Area	3-04.08	-3.9*	Post Engineer, Fort Ord	2		
Langley Area	3-04.09	-3.8*				
Corral de Tierra Area	3-04.10	-3.2*				
Carmel Valley	3-07.00	-3.6*	Monterey County FC&WCD	4		
West Santa Cruz Terrace	3-26.00	---	Santa Cruz County		1	
			Department of Water Resources		2	
TOTAL				131	89	241

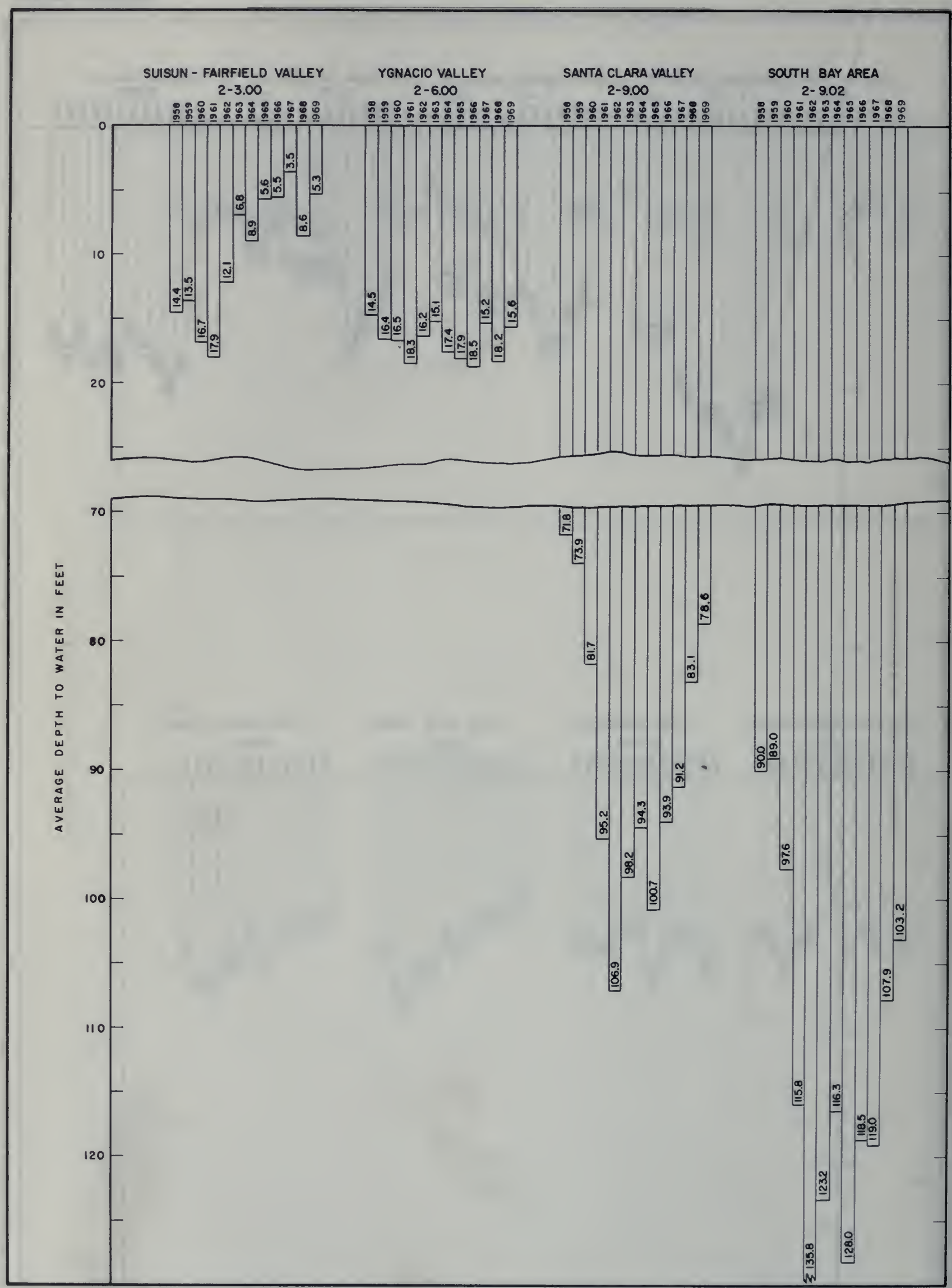
*Average change determined from water level measurements made during fall of 1967 and fall of 1968.



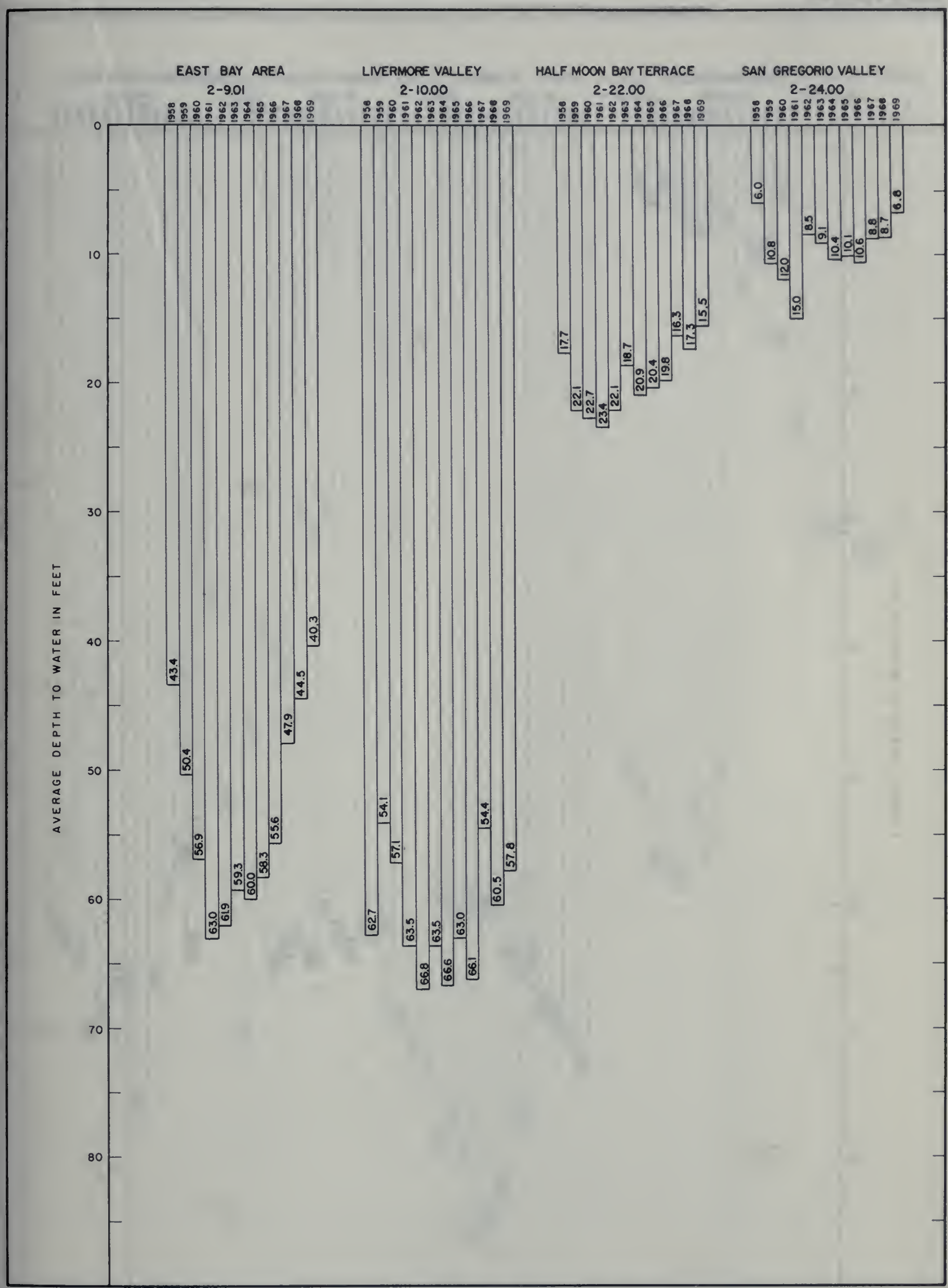
AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1969



AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1969

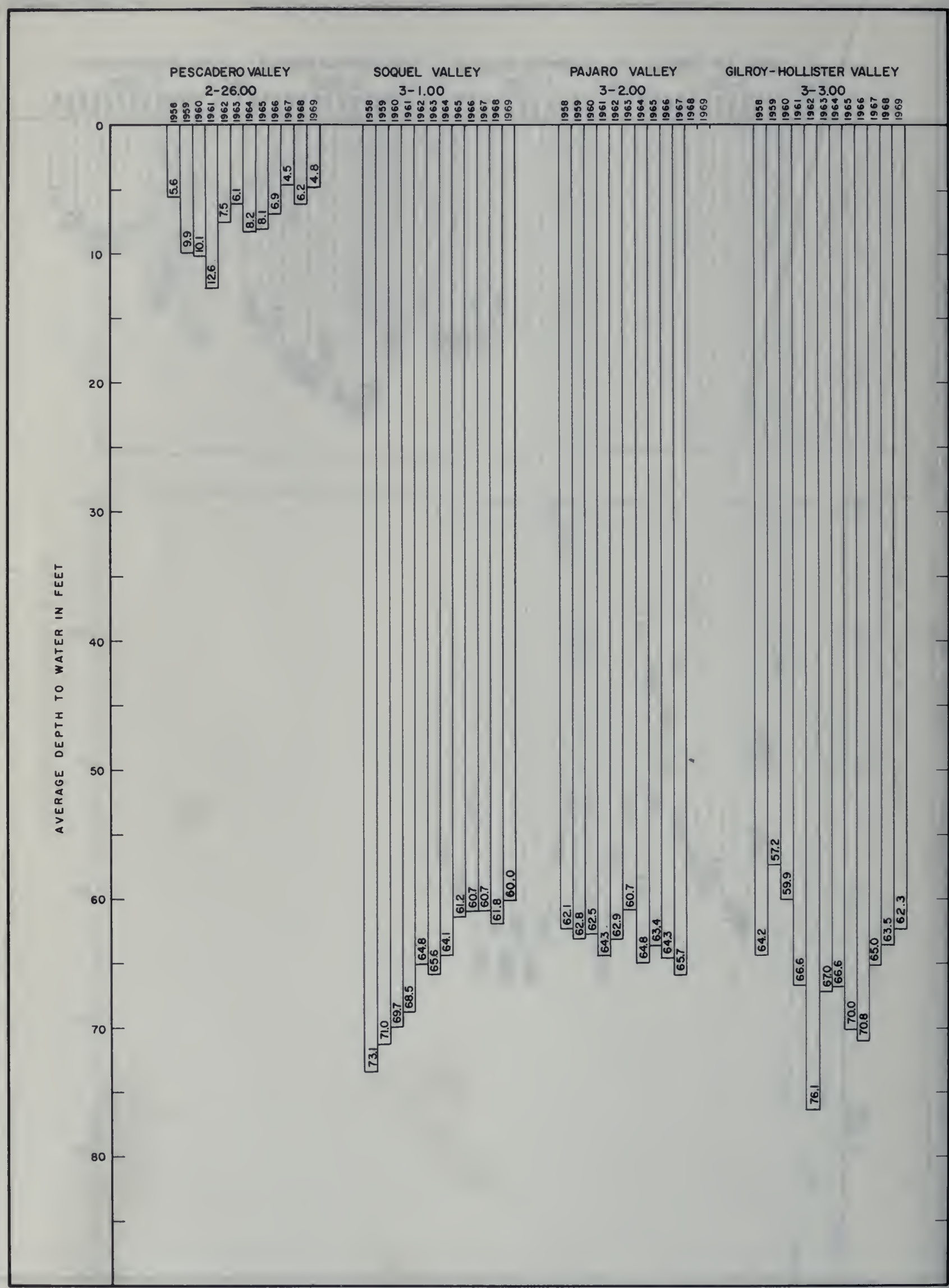


AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1969

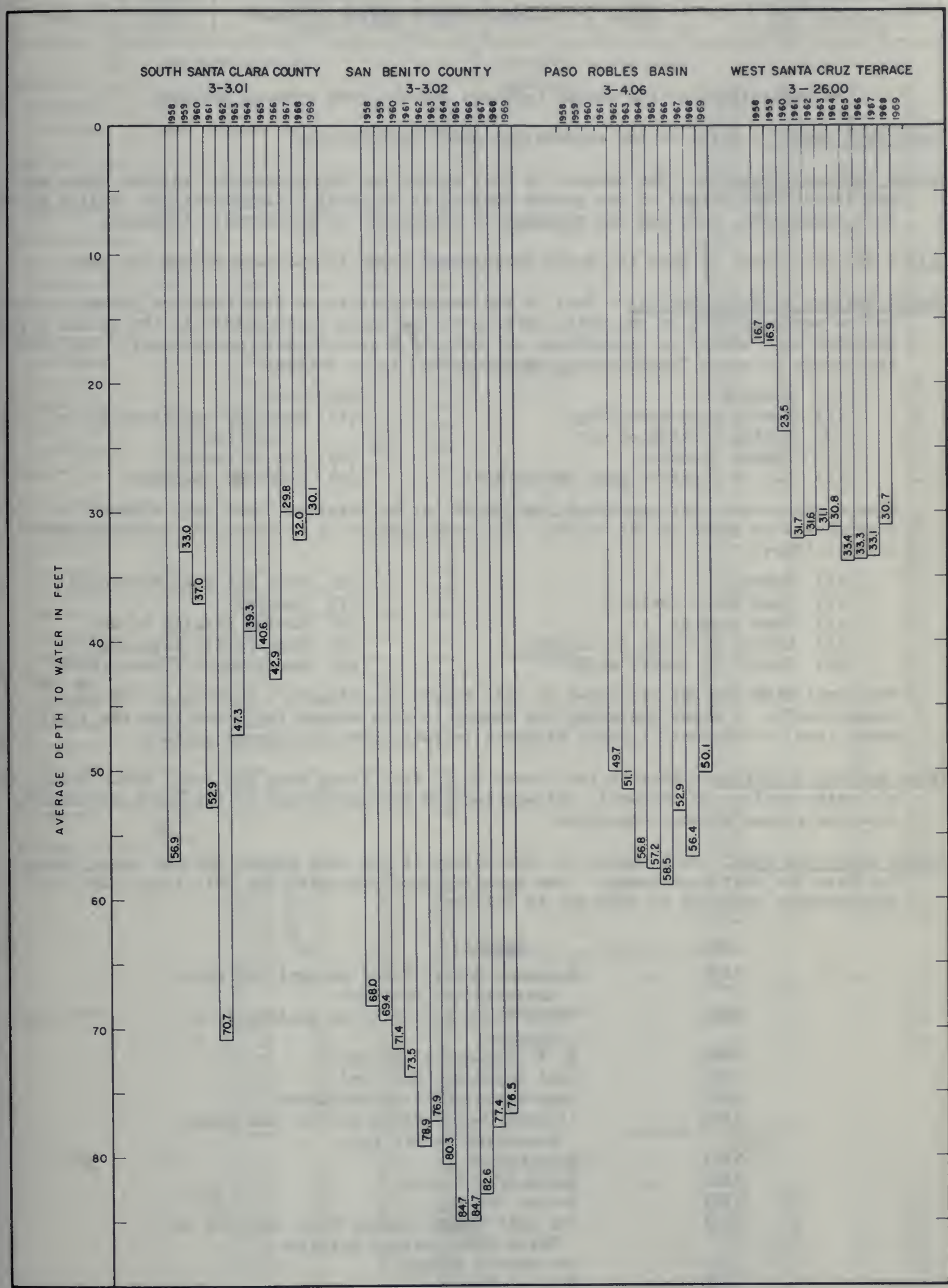


AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1969

Sheet 5 FIGURE C-2



AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1969



AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1969

TABLE C-2 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.

Ground Surface Elevation - The numbers in this column are the elevations in feet above mean sea level (USGS Datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date - The date shown is when the depth measurement given in the next column was made.

Ground Surface to Water Surface - This is the measured depth in feet from the ground surface to the water surface in the well; certain of the depth measurements in the column may be preceded by a number in parentheses to indicate a questionable measurement. The code applicable to these "questionable measurements" is as follows:

(1) Pumping
(2) Nearby pump operating
(3) Casing leaking or wet
(4) Pumped recently
(5) Air or pressure gage measurement
(6) Other
(7) Recharge operation at or near well
(8) Oil in casing
(9) Caved or deepened

When a measurement was attempted, but could not be obtained, then only a number in parentheses is shown in the column. The code applicable to these "no measurements" is as follows:

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

The words FLOW and DRY are shown in this column to indicate a flowing or dry well, respectively. A minus preceding the number in this column indicates that the static water level in the well is this distance in feet above the ground surface.

Water Surface Elevation - This is the elevation in feet above mean sea level (USGS Datum) of the water surface in the well. It was derived by subtraction of the depth measurement from the ground surface elevation.

Agency Supplying Data - Each number in this column is the code number for the agency supplying data for that measurement. The agencies supplying data for this report and the code numbers assigned to them are as follows:

Code	Agency
2100	Monterey County Flood Control and Water Conservation District
2400	Santa Clara Valley Water Conservation District
5000	U. S. Geological Survey
5005	Post Engineer, Fort Ord
5050	Department of Water Resources
5100	Alameda County Flood Control and Water Conservation District
5101	Napa County
5102	Santa Cruz County
5109	Solano County
5117	San Luis Obispo County Flood Control and Water Conservation District
5151	San Benito County
5200	City of Gilroy
5401	Alameda County Water District

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION 1-00.00					
POTTER VALLEY 1-14.00					
17N/11W-18J01M	955.0	3-20-69	-0.6	955.6	5050
17N/11W-32J01M	905.0	3-20-69	1.1	903.9	5050
UKIAH VALLEY 1-15.00					
15N/12W-08L01M	640.0	3-20-69	17.0	623.0	5050
15N/12W-35M01M	600.0	3-20-69	1.9	598.1	5050
SANEL VALLEY 1-16.00					
13N/11W-18E01M	490.0	3-19-69	10.0	480.0	5050
13N/11W-19P01M	488.0	3-19-69	8.9	479.1	5050
13N/11W-20G01M	515.0	3-19-69	4.7	510.3	5050
ALEXANDER VALLEY 1-17.00					
10N/09W-18B01M	230.0	3-19-69	14.2	215.8	5050
10N/09W-26L02M	205.0	3-19-69	0.8	204.2	5050
10N/09W-33C01M	180.0	3-19-69	4.5	175.5	5050
11N/10W-08P01M	305.0	3-19-69	6.7	298.3	5050
11N/10W-17P02M	292.0	3-19-69	6.4	285.6	5050
11N/10W-19F02M	346.0	3-19-69	5.1	340.9	5050
SANTA ROSA VALLEY 1-18.00					
SANTA ROSA AREA 1-18.01					
6N/08W-07P02M	95.0	3-18-69	13.0	82.0	5050
6N/08W-13R01M	115.0	3-18-69	15.3	99.7	5050
6N/08W-15J03M	95.0	3-18-69	13.0	82.0	5050
6N/08W-15R01M	95.0	3-18-69	18.3	76.7	5050
7N/06W-19N01M	465.0	3-18-69	4.3	460.7	5050
7N/07W-06R01M	275.0	3-18-69	4.6	270.4	5050
7N/08W-11M01M	160.0	3-19-69	6.4	153.6	5050
7N/08W-24H01M	190.0	3-18-69	9.9	180.1	5050
7N/08W-24H02M	190.0	3-18-69	(8)		5050
7N/09W-01C01M	90.0	3-19-69	17.1	72.9	5050
7N/09W-35D02M	135.0	3-18-69	29.3	105.7	5050
8N/09W-36N01M	90.0	3-19-69	3.8	86.2	5050
8N/09W-36P01M	90.0	3-19-69	50.2	39.8	5050
HEALDSBURG AREA 1-18.02					
8N/09W-03P01M	77.0	10-16-68	(1) 33.1	43.9	5000
		11-18-68	(1) 26.3	50.7	5000
		12-16-68	(1) 23.6	53.4	5000
		1-15-69	(1) 21.3	55.7	5000
		2-12-69	(1) 18.3	58.7	5000
		3-18-69	(6) 23.7	53.3	5000
		4-15-69	(1) 18.0	59.0	5000
		5-15-69	6.7	70.3	5000
		6-16-69	6.6	70.4	5000
		7-15-69	7.3	69.7	5000
		8-15-69	7.7	69.3	5000
		9-15-69	7.5	69.5	5000
8N/09W-22L01M	67.0	10-16-68	31.9	35.1	5000
		11-18-68	30.8	36.2	5000
		12-16-68	29.3	37.7	5000
		1-15-69	23.3	43.7	5000
		2-12-69	21.3	45.7	5000
		3-18-69	30.2	36.8	5000
		4-15-69	25.5	41.5	5000
		5-15-69	27.9	39.1	5000
		6-16-69	29.7	37.3	5000
		7-15-69	38.8	28.2	5000
		8-15-69	37.4	29.6	5000
		9-15-69	32.8	34.2	5000
9N/09W-20E02M	100.0	10-16-68	17.5	82.5	5000
		11-18-68	16.4	83.6	5000
		12-16-68	13.0	87.0	5000
		1-15-69	12.4	87.6	5000
		2-12-69	10.9	89.1	5000
		3-18-69	15.2	84.8	5000
		4-15-69	15.7	84.3	5000
		5-15-69	16.2	83.8	5000
		6-16-69	(1) 18.4	81.6	5000
		7-15-69	17.1	82.9	5000
		8-15-69	17.1	82.9	5000
		9-15-69	17.5	82.5	5000

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
HEALDSBURG AREA 1-18.02 (Continued)					
9N/09W-20K04M	97.0	10-16-68	7.3	89.7	5000
		11-18-68	6.0	91.0	5000
		12-16-68	3.5	93.5	5000
		1-15-69	0.8	96.2	5000
		2-12-69	0.1	96.9	5000
		3-18-69	1.7	95.3	5000
		4-15-69	2.6	94.4	5000
		5-15-69	3.5	93.5	5000
		6-16-69	4.7	92.3	5000
		7-15-69	5.3	91.7	5000
		8-15-69	6.0	91.0	5000
		9-15-69	6.6	90.4	5000
9N/09W-28N01M	90.0	10-16-68	24.3	65.7	5000
		11-18-68	17.7	72.3	5000
		12-16-68	10.8	79.2	5000
		1-15-69	12.0	78.0	5000
		2-12-69	11.7	78.3	5000
		3-18-69	16.9	73.1	5000
		4-15-69	17.5	72.5	5000
		5-15-69	18.0	72.0	5000
		6-16-69	18.7	71.3	5000
		7-15-69	(4) 19.4	70.6	5000
		8-15-69	22.9	67.1	5000
		9-15-69	24.6	65.4	5000
9N/10W-12C01M	120.0	10-16-68	15.0	105.0	5000
		11-18-68	14.5	105.5	5000
		12-16-68	11.0	109.0	5000
		1-15-69	10.0	110.0	5000
		2-12-69	8.0	112.0	5000
		3-18-69	12.9	107.1	5000
		4-15-69	13.3	106.7	5000
		5-15-69	(1) 18.4	101.6	5000
		6-16-69	13.9	106.1	5000
		7-15-69	14.1	105.9	5000
		8-15-69	14.3	105.7	5000
		9-15-69	15.0	105.0	5000
10N/10W-22D01M	180.0	10-16-68	11.7	168.3	5000
		11-18-68	10.1	169.9	5000
		12-16-68	7.0	173.0	5000
		1-15-69	4.9	175.1	5000
		2-12-69	3.1	176.9	5000
		3-18-69	8.5	171.5	5000
		4-15-69	9.6	170.4	5000
		5-15-69	10.0	170.0	5000
		6-16-69	(1) 13.1	166.9	5000
		7-15-69	10.8	169.2	5000
		8-15-69	10.9	169.1	5000
		9-15-69	10.7	169.3	5000
10N/10W-26M01M	161.0	10-16-68	12.1	148.9	5000
		11-18-68	11.0	150.0	5000
		12-16-68	7.8	153.2	5000
		1-15-69	(1) 5.4	155.6	5000
		2-12-69	4.1	156.9	5000
		3-18-69	10.0	151.0	5000
		4-15-69	10.4	150.6	5000
		5-15-69	10.8	150.2	5000
		6-16-69	11.1	149.9	5000
		7-15-69	11.4	149.6	5000
		8-15-69	(4) 12.3	148.7	5000
		9-15-69	13.2	147.8	5000
10N/10W-35Q01M	142.0	10-16-68	5.7	136.3	5000
		11-18-68	5.9	136.1	5000
		12-16-68	1.9	140.1	5000
		1-15-69	0.2	141.8	5000
		2-12-69	0.5	141.5	5000
		3-18-69	1.5	140.5	5000
		4-15-69	1.6	140.4	5000
		5-15-69	2.2	139.8	5000
		6-16-69	2.8	139.2	5000
		7-15-69	4.0	138.0	5000
		8-15-69	5.0	137.0	5000
		9-15-69	5.7	136.3	5000
LOWER RUSSIAN RIVER VALLEY 1-98.00					
7N/10W-06N01M	25.0	3-19-69	18.3	6.7	5050
		7-00-69	(0)		5050
7N/11W-14E01M	25.0	3-19-69	16.8	8.2	5050
		7-00-69	(0)		5050
8N/10W-29D02M	50.0	3-19-69	2.9	47.1	5050
		7-00-69	(0)		5050
SAN FRANCISCO BAY REGION 2-00.00					
PETALUMA VALLEY 2-01.00					
3N/06W-01Q01M	2.0	10-14-68	-0.1	2.1	5050
		11-19-68	FLOW		5050
		12-12-68	0.4	1.6	5050
		1-16-69	FLOW		5050
		2-21-69	(1) 4.8	-2.8	5050
		3-21-69	FLOW		5050
		4-15-69	(1) 3.9	-1.9	5050
		5-12-69	1.4	0.6	5050
		6-16-69	0.1	1.9	5050

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PETALUMA VALLEY 2-01.00 (Continued)					
5N/07W-19N01M	45.0	10-14-68	11.0	34.0	5050
		11-19-68	20.0	25.0	5050
		12-12-68	8.9	36.1	5050
		1-16-69	5.6	39.4	5050
		2-21-69	(4) 5.0	40.0	5050
		3-21-69	5.5	39.5	5050
		4-15-69	(1)		5050
		5-12-69	(4) 9.5	35.5	5050
		6-16-69	8.9	36.1	5050
5N/07W-20B02M	41.0	10-14-68	62.6	-21.6	5050
		11-19-68	54.5	-13.5	5050
		12-12-68	51.5	-10.5	5050
		1-16-69	50.0	-9.0	5050
		2-21-69	48.0	-7.0	5050
		3-21-69	48.2	-7.2	5050
		4-15-69	45.5	-4.5	5050
		5-12-69	48.0	-7.0	5050
		6-16-69	53.7	-12.7	5050
5N/07W-21H01M	65.0	10-14-68	41.5	23.5	5050
		11-19-68	43.0	22.0	5050
		12-12-68	43.5	21.5	5050
		1-16-69	35.7	29.3	5050
		2-21-69	24.5	40.5	5050
		3-21-69	23.9	41.1	5050
		4-15-69	25.0	40.0	5050
		5-12-69	24.8	40.2	5050
		6-16-69	27.2	37.8	5050
5N/07W-26R01M	53.6	10-14-68	26.5	27.1	5050
		11-19-68	26.9	26.7	5050
		12-12-68	25.7	27.9	5050
		1-16-69	23.2	30.4	5050
		2-21-69	18.1	35.5	5050
		3-21-69	15.7	37.9	5050
		4-15-69	15.6	38.0	5050
		5-12-69	17.4	36.2	5050
		6-16-69	17.1	36.5	5050
5N/07W-35K01M	18.8	10-14-68	18.7	0.1	5050
		11-19-68	16.0	2.8	5050
		12-12-68	14.6	4.2	5050
		1-16-69	8.4	10.4	5050
		2-21-69	5.4	13.4	5050
		3-21-69	6.0	12.8	5050
		4-15-69	6.6	12.2	5050
		5-12-69	8.4	10.4	5050
		6-16-69	11.2	7.6	5050
NAPA-SONOMA VALLEY 2-02.00					
NAPA VALLEY 2-02.01					
4N/04W-02L01M	25.0	4-09-69	8.4	16.6	5101
4N/04W-04C01M	12.0	4-09-69	6.9	5.1	5101
4N/04W-05B01M	31.0	4-09-69	11.9	19.1	5101
4N/04W-05D02M	22.0	4-09-69	4.2	17.8	5101
4N/04W-12M01M	48.0	4-09-69	13.4	34.6	5101
4N/04W-14C02M	34.0	4-08-69	30.4	3.6	5101
4N/04W-25K01M	37.0	4-08-69	1.6	35.4	5101
5N/03W-05M01M	255.0	4-08-69	79.5	175.5	5101
5N/04W-03G01M	18.0	4-08-69	10.0	8.0	5101
5N/04W-04G01M	63.5	4-08-69	5.9	57.6	5101
5N/04W-04Q01M	58.0	4-08-69	12.0	46.0	5101
5N/04W-05P01M	121.0	4-08-69	8.0	113.0	5101
5N/04W-05P02M	122.0	4-08-69	8.3	113.7	5101
5N/04W-10F01M	30.0	4-08-69	2.2	27.8	5101
5N/04W-11F03M	16.0	4-08-69	8.2	7.8	5101
5N/04W-11M01M	13.0	10-15-68	8.9	4.1	5050
		11-19-68	7.6	5.4	5050
		12-12-68	7.4	5.6	5050
		1-16-69	5.0	8.0	5050
		2-21-69	4.4	8.6	5050
		3-21-69	5.8	7.2	5050
		4-15-69	6.7	6.3	5050
		5-12-69	6.8	6.2	5050
		6-16-69	8.1	4.9	5050
5N/04W-12F01M	130.0	5-06-69	63.3	66.7	5050
5N/04W-12H01M	121.0	4-07-69	49.5	71.5	5101
5N/04W-13H01M	132.0	4-07-69	7.7	124.3	5101
5N/04W-13H02M	120.0	4-07-69	14.0	106.0	5101
5N/04W-14C01M	17.0	5-06-69	9.7	7.3	5050
5N/04W-15C02M	22.0	4-07-69	15.4	6.6	5101
5N/04W-15E01M	22.0	4-07-69	15.4	6.6	5101

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NAPA VALLEY 2-02.01 (Continued)					
5N/04W-19R02M	110.0	4-07-69	9.7	100.3	5101
5N/04W-20E02M	50.0	4-07-69	2.5	47.5	5101
5N/04W-21B01M	75.0	4-07-69	14.2	60.8	5101
5N/04W-22M01M	12.0	4-07-69	-0.9	12.9	5101
5N/04W-28R01M	37.0	4-07-69	50.0	-13.0	5101
5N/04W-29N01M	77.0	4-07-69	21.6	55.4	5101
6N/03W-31B01M	240.0	4-07-69	107.3	132.7	5101
6N/03W-31F01M	145.0	5-06-69	51.1	93.9	5050
6N/03W-31H01M	180.0	4-04-69	79.0	101.0	5101
6N/03W-31N01M	170.0	4-04-69	52.8	117.2	5101
6N/03W-31N02M	167.0	4-04-69	24.9	142.1	5101
6N/04W-05R01M	67.0	4-04-69	2.8	64.2	5101
6N/04W-06L02M	80.0	4-04-69	8.7	71.3	5101
6N/04W-06N01M	75.0	4-04-69	3.9	71.1	5101
6N/04W-06P01M	75.0	4-04-69	6.5	68.5	5101
6N/04W-07N01M	135.0	4-04-69	18.4	116.6	5101
6N/04W-08E01M	70.0	4-04-69	7.0	63.0	5101
6N/04W-15Q01M	67.0	4-04-69	47.5	19.5	5101
6N/04W-16P01M	62.0	4-03-69	5.4	56.6	5101
6N/04W-17A01M	67.0	10-15-68	15.6	51.4	5050
		11-19-68	14.0	53.0	5050
		12-12-68	13.6	53.4	5050
		1-16-69	7.9	59.1	5050
		2-21-69	0.6	66.4	5050
		3-21-69	1.6	65.4	5050
		4-15-69	3.3	63.7	5050
		5-12-69	5.1	61.9	5050
		6-16-69	8.2	58.8	5050
6N/04W-18A02M	85.0	4-03-69	20.1	64.9	5101
6N/04W-19B01M	125.0	4-03-69	15.7	109.3	5101
6N/04W-21G01M	61.0	4-03-69	0.7	60.3	5101
6N/04W-22P01M	53.0	4-03-69	15.7	37.3	5101
6N/04W-23J01M	87.0	4-03-69	(8) 14.4	72.6	5101
6N/04W-26N01M	32.0	4-03-69	12.3	19.7	5101
6N/04W-27L02M	50.0	10-15-68	48.0	2.0	5050
		11-19-68	45.6	4.4	5050
		12-12-68	43.7	6.3	5050
		1-16-69	36.0	14.0	5050
		2-21-69	(4) 31.5	18.5	5050
		3-21-69	21.9	28.1	5050
		4-15-69	22.3	27.7	5050
		5-12-69	26.4	23.6	5050
		6-16-69	33.3	16.7	5050
6N/04W-27N01M	50.0	4-03-69	15.8	34.2	5101
6N/04W-28K01M	62.0	4-03-69	6.0	56.0	5101
6N/04W-29B01M	92.0	4-03-69	4.2	87.8	5101
6N/04W-30C01M	149.0	4-03-69	4.8	144.2	5101
6N/04W-32J06M	94.0	4-03-69	6.5	87.5	5101
6N/04W-32L02M	107.0	5-06-69	36.8	70.2	5050
6N/04W-35G03M	38.0	4-02-69	14.1	23.9	5101
6N/04W-36H01M	105.0	4-02-69	22.3	82.7	5101
6N/05W-12R01M	180.0	4-02-69	22.0	158.0	5101
7N/04W-30L01M	112.0	4-02-69	3.4	108.6	5101
7N/04W-30M01M	114.0	4-02-69	1.0	113.0	5101
7N/04W-31E01M	90.0	4-02-69	(0)		5101
7N/04W-32B02M	180.0	4-02-69	2.3	177.7	5101
7N/05W-03G01M	188.0	4-02-69	35.3	152.7	5101
7N/05W-03G02M	188.0	4-02-69	11.1	176.9	5101
7N/05W-04R02M	172.0	4-02-69	3.1	168.9	5101
7N/05W-05A01M	182.0	4-02-69	12.7	169.3	5101
7N/05W-06F01M	245.0	4-02-69	17.0	228.0	5101
7N/05W-06J01M	215.0	4-02-69	10.1	204.9	5101
7N/05W-08A01M	175.0	4-02-69	10.7	164.3	5101

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NAPA VALLEY 2-02.01 (Continued)					
7N/05W-08M01M	190.0	4-01-69	16.0	174.0	5101
7N/05W-09Q01M	155.0	4-01-69	7.2	147.8	5101
7N/05W-09Q02M	155.0	10-15-68	16.8	138.2	5050
		11-19-68	16.5	138.5	5050
		12-12-68	15.0	140.0	5050
		1-16-69	8.0	147.0	5050
		2-21-69	5.4	149.6	5050
		3-21-69	6.2	148.8	5050
		4-15-69	7.4	147.6	5050
		5-12-69	10.2	144.8	5050
		6-16-69	10.6	144.4	5050
7N/05W-09Q03M	155.0	4-01-69	3.5	151.5	5101
7N/05W-10C01M	162.2	4-01-69	11.7	150.5	5101
7N/05W-14B02M	139.0	4-01-69	4.1	134.9	5101
7N/05W-14J01M	140.0	4-01-69	4.2	135.8	5101
7N/05W-15A01M	143.0	4-01-69	9.7	133.3	5101
7N/05W-15F01M	141.0	4-01-69	4.0	137.0	5101
7N/05W-16L01M	171.0	4-01-69	-0.5	171.5	5101
7N/05W-16N02M	193.0	4-01-69	11.9	181.1	5101
7N/05W-17B01M	166.0	4-01-69	(0)		5101
7N/05W-17B02M	161.0	4-01-69	-0.3	161.3	5101
7N/05W-21G01M	152.0	4-01-69	-1.1	153.1	5101
7N/05W-22E03M	140.0	4-01-69	-0.3	140.3	5101
7N/05W-22N01M	133.0	4-01-69	6.2	126.8	5101
7N/05W-23D02M	127.0	3-28-69	1.7	125.3	5101
7N/05W-23Q01M	115.0	3-28-69	2.2	112.8	5101
7N/05W-24P01M	127.0	3-28-69	2.2	124.8	5101
7N/05W-25A01M	163.0	3-28-69	2.7	160.3	5101
7N/05W-26D02M	127.0	3-28-69	1.1	125.9	5101
7N/05W-34C02M	190.0	3-28-69	7.9	182.1	5101
7N/05W-35F02M	175.0	3-28-69	5.4	169.6	5101
7N/05W-36N01M	141.0	3-28-69	4.2	136.8	5101
7N/06W-01A01M	264.0	3-28-69	11.9	252.1	5101
8N/05W-30P01M	220.0	3-28-69	0.8	219.2	5101
8N/05W-31H01M	212.0	3-28-69	7.1	204.9	5101
8N/05W-31P02M	237.0	3-28-69	14.3	222.7	5101
8N/05W-31R01M	210.0	3-28-69	10.8	199.2	5101
8N/05W-32K04M	192.0	3-28-69	4.4	187.6	5101
8N/06W-03M01M	330.0	5-06-69	35.8	294.2	5050
8N/06W-04F01M	330.0	3-27-69	44.7	285.3	5101
8N/06W-06L04M	335.0	3-27-69	(6) 15.2	319.8	5101
8N/06W-09D02M	290.0	3-27-69	10.8	279.2	5101
8N/06W-09H01M	290.0	3-27-69	1.8	288.2	5101
8N/06W-09H02M	291.5	5-06-69	3.5	288.0	5050
8N/06W-10Q01M	290.0	10-15-68	7.9	282.1	5050
		11-19-68	6.6	283.4	5050
		12-12-68	5.8	284.2	5050
		1-16-69	1.4	288.6	5050
		2-21-69	1.5	288.5	5050
		3-21-69	1.5	288.5	5050
		4-15-69	2.1	287.9	5050
		5-12-69	2.7	287.3	5050
		6-16-69	2.9	287.1	5050
8N/06W-14N01M	285.0	3-27-69	10.5	274.5	5101
8N/06W-14Q01M	250.0	3-27-69	8.9	241.1	5101
8N/06W-23M01M	285.0	3-27-69	4.8	280.2	5101
8N/06W-24B01M	300.0	3-27-69	8.9	291.1	5101
8N/06W-25G02M	230.0	3-27-69	7.9	222.1	5101
9N/06W-31Q01M	340.0	3-27-69	1.6	338.4	5101
9N/06W-32M01M	360.0	3-27-69	9.7	350.3	5101
9N/07W-24L01M	460.0	3-27-69	7.7	452.3	5101
9N/07W-25N01M	380.0	3-27-69	3.7	376.3	5101
9N/07W-25N02M	380.0	3-27-69	4.3	375.7	5101

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NAPA VALLEY 2-02.01 (Continued)					
9N/07W-26P01M	400.0	3-27-69	0.5	399.5	5101
9N/07W-35K01M	399.0	3-27-69	0.3	398.7	5101
SONOMA VALLEY 2-02.02					
5N/05W-17C01M	85.0	10-14-68	26.3	58.7	5050
		11-19-68	22.4	62.6	5050
		12-12-68	23.1	61.9	5050
		1-16-69	18.6	66.4	5050
		2-21-69	16.1	68.9	5050
		3-21-69	14.6	70.4	5050
		4-15-69	17.2	67.8	5050
		5-12-69	17.1	67.9	5050
		6-16-69	19.8	65.2	5050
5N/05W-18R01M	43.0	10-14-68	15.1	27.9	5050
		11-19-68	14.3	28.7	5050
		12-12-68	11.5	31.5	5050
		1-16-69	2.1	40.9	5050
		2-21-69	2.0	41.0	5050
		3-21-69	2.2	40.8	5050
		4-15-69	2.8	40.2	5050
		5-12-69	4.1	38.9	5050
		6-16-69	5.9	37.1	5050
5N/05W-28N01M	11.0	10-14-68	(1) 11.8	-0.8	5050
		11-19-68	(1) 12.6	-1.6	5050
		12-12-68	(1) 12.4	-1.4	5050
		1-16-69	9.4	1.6	5050
		2-21-69	6.1	4.9	5050
		3-21-69	5.6	5.4	5050
		4-15-69	6.6	4.4	5050
		5-12-69	7.6	3.4	5050
		6-16-69	8.8	2.2	5050
5N/05W-29N01M	16.0	10-14-68	12.7	3.3	5050
		11-19-68	11.7	4.3	5050
		12-12-68	11.9	4.1	5050
		1-16-69	8.7	7.3	5050
		2-21-69	2.1	13.9	5050
		3-21-69	4.4	11.6	5050
		4-15-69	6.7	9.3	5050
		5-12-69	8.3	7.7	5050
		6-16-69	9.3	6.7	5050
5N/05W-30J03M	16.0	10-14-68	13.7	2.3	5050
		11-19-68	12.5	3.5	5050
		12-12-68	(4) 14.8	1.2	5050
		1-16-69	8.0	8.0	5050
		2-21-69	3.6	12.4	5050
		3-21-69	4.7	11.3	5050
		4-15-69	6.8	9.2	5050
		5-12-69	(4) 11.8	4.2	5050
		6-16-69	10.3	5.7	5050
SUISUN FAIRFIELD VALLEY 2-03.00					
4N/02W-04D02M	26.0	10-10-68	11.7	14.3	5109
		3-10-69	5.6	20.4	5109
4N/02W-06A01M	35.0	10-10-68	15.8	19.2	5109
		10-16-68	15.8	19.2	5050
		11-20-68	15.6	19.4	5050
		12-13-68	15.4	19.6	5050
		1-15-69	12.6	22.4	5050
		2-18-69	10.4	24.6	5050
		3-10-69	10.8	24.2	5109
		3-21-69	12.6	22.4	5050
		4-17-69	12.9	22.1	5050
		5-14-69	13.2	21.8	5050
		6-18-69	15.7	19.3	5050
		7-15-69	17.4	17.6	5050
		8-18-69	15.2	19.8	5050
		9-15-69	15.2	19.8	5050
4N/02W-07D01M	17.0	10-10-68	14.2	2.8	5109
		3-10-69	1.7	15.3	5109
4N/02W-09A01M	7.0	10-10-68	1.0	6.0	5109
		10-16-68	1.0	6.0	5050
		11-21-68	0.8	6.2	5050
		12-13-68	0.6	6.4	5050
		1-15-69	FLOW		5050
		2-18-69	FLOW		5050
		3-06-69	FLOW		5109
		3-21-69	FLOW		5050
		4-17-69	FLOW		5050
		5-14-69	-0.3	7.3	5050
		6-18-69	0.4	6.6	5050
		7-15-69	0.9	6.1	5050
		8-18-69	0.9	6.1	5050
		9-15-69	1.1	5.9	5050
4N/02W-09N01M	4.0	10-16-68	0.2	3.8	5050
		11-21-68	FLOW		5050
		12-13-68	-0.2	4.2	5050
		1-15-69	FLOW		5050
		2-18-69	FLOW		5050
		3-21-69	FLOW		5050
		4-17-69	(1)		5050
		5-14-69	2.0	2.0	5050
		6-18-69	3.0	1.0	5050
		7-15-69	(3) 3.6	0.4	5050
		8-18-69	(1) 6.1	-2.1	5050
		9-15-69	(3) 3.2	0.8	5050

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SUISUN-FAIRFIELD VALLEY 2-03.00 (Continued)					
4N/03W-01D01M	37.0	10-10-68	6.8	30.2	5109
		3-10-69	1.7	35.3	5109
4N/03W-13G01M	47.0	10-10-68	21.3	25.7	5109
		3-10-69	14.7	32.3	5109
5N/01E-19R01M	39.0	10-10-68	10.6	28.4	5109
		3-11-69	5.4	33.6	5109
5N/01W-02N01M	88.5	10-08-68	9.5	79.0	5109
		3-10-69	5.3	83.2	5109
5N/01W-07E01M	115.0	10-08-68	15.3	99.7	5109
		3-10-69	10.8	104.2	5109
5N/01W-25R01M	25.0	10-09-68	10.1	14.9	5109
		3-10-69	4.4	20.6	5109
5N/02W-08G03M	143.0	10-08-68	13.7	129.3	5109
		3-10-69	7.1	135.9	5109
5N/02W-14N03M	100.0	10-08-68	8.7	91.3	5109
		3-10-69	5.4	94.6	5109
5N/02W-21P03M	60.0	10-10-68	12.4	47.6	5109
		10-16-68	12.1	47.9	5050
		11-21-68	12.2	47.8	5050
		12-13-68	13.5	46.5	5050
		1-15-69	11.6	48.4	5050
		2-18-69	3.6	56.4	5050
		3-10-69	3.6	56.4	5109
		3-21-69	4.8	55.2	5050
		4-17-69	6.5	53.5	5050
		5-14-69	7.9	52.1	5050
		6-18-69	7.4	52.6	5050
		7-15-69	7.9	52.1	5050
		8-18-69	10.0	50.0	5050
		9-15-69	10.8	49.2	5050
5N/02W-24B04M	58.0	10-08-68	(1) 9.6	48.4	5109
		3-10-69	5.9	52.1	5109
5N/02W-25R01M	7.0	10-09-68	5.1	1.9	5109
		10-16-68	5.1	1.9	5050
		11-20-68	4.2	2.8	5050
		12-13-68	3.8	3.2	5050
		1-15-69	0.2	6.8	5050
		2-18-69	FLOW		5050
		3-10-69	-0.3	7.3	5109
		3-21-69	0.3	6.7	5050
		4-17-69	2.7	4.3	5050
		5-14-69	4.0	3.0	5050
		6-18-69	4.7	2.3	5050
		7-15-69	5.4	1.6	5050
		8-18-69	5.9	1.1	5050
		9-15-69	5.9	1.1	5050
5N/02W-27J02M	24.0	10-10-68	8.3	15.7	5109
		10-16-68	6.6	17.4	5050
		11-20-68	7.0	17.0	5050
		12-13-68	5.7	18.3	5050
		1-15-69	(2) 28.0	-4.0	5050
		2-18-69	(2) 27.0	-3.0	5050
		3-10-69	(2) 26.4	-2.4	5109
		3-26-69	7.6	16.4	5050
		4-17-69	6.2	17.8	5050
		5-14-69	6.0	18.0	5050
		6-18-69	(2) 24.2	-0.2	5050
		7-15-69	6.5	17.5	5050
		8-18-69	(2) 11.0	13.0	5050
		9-15-69	6.8	17.2	5050
5N/02W-29R01M	46.0	10-10-68	13.4	32.6	5109
		3-10-69	5.5	40.5	5109
5N/02W-30J01M	65.0	10-16-68	21.2	43.8	5050
		11-21-68	23.1	41.9	5050
		12-13-68	24.1	40.9	5050
		1-15-69	22.2	42.8	5050
		2-18-69	13.1	51.9	5050
		3-21-69	13.8	51.2	5050
		4-17-69	16.4	48.6	5050
		5-14-69	18.0	47.0	5050
		6-18-69	14.8	50.2	5050
		7-15-69	16.7	48.3	5050
		8-18-69	19.4	45.6	5050
		9-15-69	19.8	45.2	5050
PITTSBURG PLAIN 2-04.00					
2N/01E-15N01M	40.0	4-07-69	45.8	-5.8	5050
2N/01E-15P01M	35.0	4-07-69	19.4	15.6	5050
2N/01E-18D01M	25.0	4-06-69	22.2	2.8	5050
2N/01W-04Q01M	5.0	4-05-69	4.3	0.7	5050
2N/01W-12P01M	30.0	4-06-69	26.5	3.5	5050
YGNACIO VALLEY 2-06.00					
1N/01W-07K01M	83.0	10-14-68	12.7	70.3	5050
		11-19-68	12.2	70.8	5050
		12-11-68	12.3	70.7	5050
		1-16-69	(1) 12.2	70.8	5050
		2-18-69	7.9	75.1	5050
YGNACIO VALLEY 2-06.00 (Continued)					
1N/01W-07K01M (Continued)	83.0	3-18-69	9.0	74.0	5050
		4-16-69	10.8	72.2	5050
		5-13-69	10.2	72.8	5050
		6-17-69	10.6	72.4	5050
1N/02W-11N01M	63.0	10-14-68	13.4	49.6	5050
		11-19-68	13.0	50.0	5050
		12-11-68	13.0	50.0	5050
		1-16-69	12.3	50.7	5050
		2-18-69	9.3	53.7	5050
		3-18-69	8.9	54.1	5050
		4-16-69	9.7	53.3	5050
		5-13-69	(1) 14.7	48.3	5050
		6-17-69	11.6	51.4	5050
1N/02W-13P01M	100.0	10-14-68	11.1	88.9	5050
		11-19-68	11.0	89.0	5050
		12-11-68	11.1	88.9	5050
		1-16-69	10.1	89.9	5050
		2-18-69	3.0	97.0	5050
		3-18-69	4.2	95.8	5050
		4-16-69	5.9	94.1	5050
		5-13-69	7.3	92.7	5050
		6-17-69	6.8	93.2	5050
2N/02W-27R01M	15.0	10-14-68	5.8	9.2	5050
		11-19-68	4.5	10.5	5050
		12-11-68	4.4	10.6	5050
		1-16-69	3.7	11.3	5050
		2-18-69	1.0	14.0	5050
		3-18-69	1.4	13.6	5050
		4-16-69	2.1	12.9	5050
		5-13-69	3.8	11.2	5050
		6-17-69	4.6	10.4	5050
SANTA CLARA VALLEY 2-09.00					
EAST BAY AREA ABOVE HAYWARD FAULT 2-09.01					
4S/01W-35P03M	115.3	10-11-68	115.8	-0.5	5401
		10-25-68	110.4	4.9	5401
		12-03-68	102.0	13.3	5401
		12-30-68	102.3	13.0	5401
		2-06-69	98.4	16.9	5401
		3-06-69	92.8	22.5	5401
		4-02-69	92.7	22.6	5401
		4-30-69	97.9	17.4	5401
		6-04-69	103.5	11.8	5401
		7-01-69	114.3	1.0	5401
		8-06-69	117.1	-1.8	5401
		9-03-69	119.0	-3.7	5401
		9-30-69	(1) 129.0	-13.7	5401
EAST BAY AREA UPPER AQUIFER 2-09.01					
3S/02W-08M03M	48.0	10-02-68	17.9	30.1	5100
		11-06-68	18.9	29.1	5100
		12-18-68	20.0	28.0	5100
		1-02-69	21.2	26.8	5100
		2-05-69	16.2	31.8	5100
		3-05-69	16.7	31.3	5100
		4-02-69	14.2	33.8	5100
		5-09-69	15.4	32.6	5100
		6-04-69	15.6	32.4	5100
		7-02-69	15.9	32.1	5100
		8-06-69	16.7	31.3	5100
		9-03-69	15.5	32.5	5100
3S/02W-08R05M	64.0	10-00-68	34.8	29.2	5100
		4-00-69	29.0	35.0	5100
3S/02W-19J01M	30.0	10-02-68	10.3	19.7	5100
		11-06-68	9.8	20.2	5100
		12-18-68	11.7	18.3	5100
		1-02-69	12.3	17.7	5100
		2-05-69	8.7	21.3	5100
		3-05-69	6.8	23.2	5100
		4-02-69	7.6	22.4	5100
		5-09-69	7.8	22.2	5100
		6-04-69	8.0	22.0	5100
		7-02-69	8.7	21.3	5100
		8-06-69	8.6	21.4	5100
		9-03-69	8.3	21.7	5100
3S/03W-24Q02M	7.0	10-00-68	8.3	-1.3	5100
		4-00-69	8.2	-1.2	5100
4S/01W-18H03M	47.0	10-11-68	55.4	-8.4	5401
		10-25-68	54.6	-7.6	5401
		12-03-68	52.5	-5.5	5401
		12-31-68	52.3	-5.3	5401
		2-05-69	49.7	-2.7	5401
		3-05-69	49.6	-2.6	5401
		4-01-69	51.6	-4.6	5401
		4-30-69	52.2	-5.2	5401
		6-03-69	53.3	-6.3	5401
		6-30-69	54.3	-7.3	5401
		8-05-69	55.4	-8.4	5401
		9-02-69	57.3	-10.3	5401
4S/01W-22P05M	80.0	10-00-68	38.1	41.9	5100
		4-00-69	36.2	43.8	5100
4S/02W-13C02M	36.4	4-01-69	35.1	1.3	5401
4S/02W-24Q02M	33.4	10-00-68	42.6	-9.2	5100
		4-00-69	36.1	-2.7	5100

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EAST BAY AREA LOWER AQUIFER 2-09.01					
2S/03W-36R01M	45.0	10-00-68	89.0	-44.0	5100
		4-00-69	(1) 171.0	-126.0	5100
3S/03W-24J01M	11.0	10-02-68	64.2	-53.2	5100
		11-06-68	64.2	-53.2	5100
		12-18-68	63.0	-52.0	5100
		1-02-69	59.8	-48.8	5100
		2-05-69	54.9	-43.9	5100
		3-05-69	49.4	-38.4	5100
		4-02-69	51.4	-40.4	5100
		5-09-69	44.7	-33.7	5100
		6-04-69	47.2	-36.2	5100
		7-02-69	51.8	-40.8	5100
		8-06-69	50.1	-39.1	5100
		9-03-69	48.0	-37.0	5100
3S/03W-36R03M	5.0	10-00-68	72.7	-67.7	5100
		4-00-69	58.0	-53.0	5100
4S/02W-02Q01M	26.0	9-25-68	93.3	-67.3	5401
		4-07-69	54.3	-28.3	5401
		9-23-69	82.0	-56.0	5401
4S/02W-35R02M	15.0	10-04-68	46.8	-31.8	5401
		10-18-68	45.8	-30.8	5401
		11-01-68	42.8	-27.8	5401
		12-03-68	33.7	-18.7	5401
		1-02-69	31.5	-16.5	5401
		2-06-69	27.8	-12.8	5401
		3-04-69	27.4	-12.4	5401
		4-01-69	26.5	-11.5	5401
		4-30-69	31.0	-16.0	5401
		6-04-69	38.5	-23.5	5401
		7-01-69	44.1	-29.1	5401
		8-06-69	53.3	-38.3	5401
		9-04-69	55.4	-40.4	5401
		9-30-69	56.8	-41.8	5401
4S/02W-36K01M	24.0	10-04-68	59.4	-35.4	5401
		10-18-68	57.6	-33.6	5401
		11-01-68	52.1	-28.1	5401
		12-03-68	46.0	-22.0	5401
		1-02-69	42.7	-18.7	5401
		2-06-69	38.4	-14.4	5401
		3-04-69	39.4	-15.4	5401
		4-01-69	38.5	-14.5	5401
		4-30-69	42.9	-18.9	5401
		6-04-69	50.6	-26.6	5401
		7-01-69	54.2	-30.2	5401
		8-06-69	59.1	-35.1	5401
		9-04-69	58.1	-34.1	5401
		9-30-69	59.7	-35.7	5401
5S/01W-09M01M	15.0	9-23-68	59.9	-44.9	5401
		4-08-69	29.8	-14.8	5401
SOUTH BAY AREA 2-09.02					
6S/01E-07E01M	15.8	10-01-68	(6) 100.0	-84.2	2400
		11-01-68	(6) 85.0	-69.2	2400
		12-01-68	(6) 80.0	-64.2	2400
		1-00-69	(0)		2400
6S/01E-21R01M	138.0	10-18-68	179.6	-41.6	2400
		11-21-68	173.0	-35.0	2400
		12-19-68	168.7	-30.7	2400
		1-23-69	170.2	-32.2	2400
		2-19-69	167.8	-29.8	2400
		3-21-69	159.3	-21.3	2400
		4-23-69	158.6	-20.6	2400
		8-15-69	180.2	-42.2	2400
		9-02-69	178.3	-40.3	2400
		9-30-69	174.8	-36.8	2400
6S/01E-23P02M	240.5	10-17-68	119.3	121.2	2400
		11-21-68	121.0	119.5	2400
		12-19-68	128.3	112.2	2400
		1-22-69	134.6	105.9	2400
		2-19-69	125.4	115.1	2400
		3-21-69	123.3	117.2	2400
		4-23-69	121.5	119.0	2400
		5-21-69	120.8	119.7	2400
		6-23-69	120.4	120.1	2400
		7-16-69	119.7	120.8	2400
		8-19-69	123.5	117.0	2400
		9-02-69	121.2	119.3	2400
		9-30-69	123.7	116.8	2400
6S/01E-30M01M	43.0	10-22-68	(4) 108.5	-65.5	2400
		11-25-68	(8) 90.6	-47.6	2400
		12-24-68	(8) 80.3	-37.3	2400
		1-27-69	(8) 76.4	-33.4	2400
		2-25-69	70.3	-27.3	2400
		3-25-69	(8) 71.5	-28.5	2400
		6-25-69	(4) 90.6	-47.6	2400
		7-20-69	(2) 117.0	-74.0	2400
		8-20-69	(8) 111.3	-68.3	2400
		9-04-69	(6) 104.0	-61.0	2400
6S/01W-23E01M	21.0	10-22-68	104.3	-83.3	5000
		11-18-68	87.8	-66.8	5000
		12-18-68	77.3	-56.3	5000
		1-10-69	71.8	-50.8	5000
		2-10-69	65.7	-44.7	5000
		3-10-69	61.6	-40.6	5000
		4-07-69	60.6	-39.6	5000
		5-05-69	66.4	-45.4	5000
		6-02-69	112.9	-91.9	5000
SOUTH BAY AREA 2-09.02 (Continued)					
6S/01W-23E01M (Continued)	21.0	6-28-69	109.1	-88.1	5000
		8-01-69	119.3	-98.3	5000
		8-28-69	109.2	-88.2	5000
		9-25-69	118.7	-97.7	5000
6S/02W-16R01M	48.0	10-25-68	(6) 102.0	-54.0	2400
		11-25-68	95.2	-47.2	2400
		12-30-68	(6) 93.0	-45.0	2400
		1-17-69	91.2	-43.2	2400
		2-19-69	88.5	-40.5	2400
		3-27-69	(6) 86.0	-38.0	2400
		4-10-69	86.1	-38.1	2400
		5-12-69	94.2	-46.2	2400
		6-24-69	90.5	-42.5	2400
		8-19-69	94.4	-46.4	2400
6S/02W-25C01M	73.0	10-24-68	(8) 122.3	-49.3	2400
		11-26-68	(8) 120.7	-47.7	2400
		12-27-68	(8) 119.4	-46.4	2400
		1-28-69	121.6	-48.6	2400
		2-26-69	111.2	-38.2	2400
		3-26-69	110.7	-37.7	2400
		4-24-69	110.3	-37.3	2400
		5-09-69	111.2	-38.2	2400
		6-26-69	125.6	-52.6	2400
		7-24-69	134.4	-61.4	2400
		8-22-69	114.3	-41.3	2400
		9-25-69	115.4	-42.4	2400
6S/02W-35C01M	140.1	10-25-68	(3) 249.8	-109.7	2400
		11-26-68	(3) 243.3	-103.2	2400
		12-30-68	(3) 234.3	-94.2	2400
		1-29-69	231.0	-90.9	2400
		2-27-69	(6) 215.0	-74.9	2400
		3-27-69	(6) 213.0	-72.9	2400
		4-29-69	(6) 218.0	-77.9	2400
		5-09-69	220.5	-80.4	2400
		6-27-69	229.3	-89.2	2400
		7-24-68	234.7	-94.6	2400
		8-21-69	230.8	-90.7	2400
		9-25-69	232.6	-92.5	2400
7S/01E-01K01M	179.0	10-16-68	169.3	9.7	2400
		11-19-68	153.0	26.0	2400
		12-19-68	154.8	24.2	2400
		1-22-69	156.2	22.8	2400
		2-19-69	(6) 153.7	25.3	2400
		3-20-69	148.3	30.7	2400
		4-21-69	148.7	30.3	2400
		5-20-69	149.6	29.4	2400
		6-16-69	146.2	32.8	2400
		7-15-69	148.7	30.3	2400
		8-18-69	148.3	30.7	2400
7S/01E-08M01M	88.0	10-23-68	(6) 153.0	-65.0	2400
		11-26-68	(6) 150.0	-62.0	2400
		12-30-68	(6) 144.0	-56.0	2400
		1-30-69	(6) 130.0	-42.0	2400
		3-28-69	(6) 123.0	-35.0	2400
		4-17-69	(8) 114.2	-26.2	2400
7S/01E-09D02M	95.9	10-22-68	157.2	-61.3	5000
		11-18-68	146.3	-50.4	5000
		12-18-68	139.8	-43.9	5000
		1-10-69	133.5	-37.6	5000
		2-10-69	130.4	-34.5	5000
		3-10-69	126.6	-30.7	5000
		4-07-69	125.9	-30.0	5000
		5-05-69	127.6	-31.7	5000
		6-02-69	143.2	-47.3	5000
		6-28-69	145.2	-49.3	5000
		8-01-69	157.3	-61.4	5000
		8-28-69	159.1	-63.2	5000
		9-25-69	157.3	-61.4	5000
7S/01E-16C05M	105.0	10-22-68	205.6	-100.6	5000
		11-18-68	177.1	-72.1	5000
		12-18-68	180.8	-75.8	5000
		1-10-69	165.6	-60.6	5000
		2-10-69	166.4	-61.4	5000
		3-10-69	164.0	-59.0	5000
		4-07-69	155.3	-50.3	5000
		5-05-69	173.7	-68.7	5000
		6-02-69	191.2	-86.2	5000
		6-28-69	200.3	-95.3	5000
		8-01-69	217.7	-112.7	5000
		8-28-69	226.8	-121.8	5000
		9-25-69	220.6	-115.6	5000
7S/01E-31A02M	151.6	10-15-68	157.2	-5.6	2400
		11-22-68	150.3	1.3	2400
		12-16-68	148.6	3.0	2400
		1-20-69	142.7	8.9	2400
		2-18-69	140.6	11.0	2400
		3-13-69	136.3	15.3	2400
		4-14-69	134.8	16.8	2400
		5-06-69	130.9	20.7	2400
		6-05-69	138.6	13.0	2400
		7-07-69	144.7	6.9	2400
7S/02E-07P01M	130.0	10-16-68	135.2	-5.2	2400
		11-19-68	134.5	-4.5	2400
		12-19-68	132.2	-2.2	2400
		1-22-69	130.4	-0.4	2400
		2-19-69	128.3	1.7	2400
		3-20-69	129.4	0.6	2400
		4-21-69	(2) 130.8	-0.8	2400
		5-20-69	(2) 136.5	-6.5	2400
		6-16-69	(2) 137.3	-7.3	2400
		7-15-69	136.6	-6.6	2400
		8-18-69	135.4	-5.4	2400

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH BAY AREA 2-09.02 (Continued)					
7S/02E-17H01M	349.0	10-10-68	95.4	253.6	2400
		11-18-68	(8) 89.3	259.7	2400
		12-12-68	(8) 90.2	258.8	2400
		1-17-69	(8) 89.4	259.6	2400
		2-17-69	(8) 86.6	262.4	2400
		3-18-69	(1) 91.4	257.6	2400
		4-17-69	(8) 88.8	260.2	2400
		5-16-69	(8) 90.4	258.6	2400
		7-11-69	(8) 91.6	257.4	2400
		8-14-69	(8) 90.3	258.7	2400
7S/02E-33C01M	462.0	10-10-68	21.4	440.6	2400
		11-18-68	20.2	441.8	2400
		12-12-68	21.3	440.7	2400
		1-17-69	20.8	441.2	2400
		2-17-69	20.3	441.7	2400
		3-18-69	17.6	444.4	2400
		4-17-69	19.4	442.6	2400
		5-15-69	20.6	441.4	2400
		6-09-69	19.5	442.5	2400
		7-11-69	20.8	441.2	2400
		8-14-69	20.6	441.4	2400
		9-22-69	20.0	442.0	2400
7S/01W-35C01M	202.0	10-01-68	265.0	-63.0	2400
		11-01-68	263.0	-61.0	2400
		12-01-68	(6) 240.0	-38.0	2400
		1-01-69	(6) 230.0	-28.0	2400
		2-00-69	(0)		2400
7S/02W-03P01M	216.7	10-01-68	(6) 340.0	-123.3	2400
		11-01-68	331.0	-114.3	2400
		12-01-68	(6) 325.0	-108.3	2400
		1-00-69	(0)		2400
7S/02W-04B01M	218.0	10-25-68	233.4	-15.4	2400
		11-26-68	235.6	-17.6	2400
		12-30-68	232.7	-14.7	2400
		1-29-69	228.8	-10.8	2400
		2-24-69	(6) 223.6	-5.6	2400
		3-28-69	(6) 221.8	-3.8	2400
		4-16-69	197.6	20.4	2400
		5-26-69	(6) 214.0	4.0	2400
		6-25-69	(6) 215.6	2.4	2400
		7-28-69	(6) 214.8	3.2	2400
		8-21-69	194.8	23.2	2400
		9-26-69	(6) 207.7	10.3	2400
7S/02W-22A01M	340.0	10-28-68	29.6	310.4	2400
		11-25-68	29.4	310.6	2400
		12-31-68	27.7	312.3	2400
		1-30-69	23.5	316.5	2400
		2-24-69	19.8	320.2	2400
		3-28-69	18.3	321.7	2400
		4-16-69	16.6	323.4	2400
		5-27-69	18.1	321.9	2400
		6-25-69	15.6	324.4	2400
		7-29-69	16.4	323.6	2400
		8-21-69	17.1	322.9	2400
		9-26-69	17.8	322.2	2400
8S/01E-07H02M	207.0	10-01-68	58.6	148.4	2400
		11-05-68	60.5	146.5	2400
		12-02-68	62.7	144.3	2400
		1-08-69	64.8	142.2	2400
		2-03-69	58.6	148.4	2400
		3-04-69	(6) 40.0	167.0	2400
		4-08-69	41.8	165.2	2400
		5-02-69	43.7	163.3	2400
		6-04-69	48.8	158.2	2400
		8-05-69	55.0	152.0	2400
8S/01E-13H01M	184.6	10-03-68	(8) 25.8	158.8	2400
		11-06-68	26.0	158.6	2400
		12-04-68	(8) 24.7	159.9	2400
		1-10-69	(8) 23.8	160.8	2400
		2-03-69	(8) 21.9	162.7	2400
		3-06-69	(8) 16.3	168.3	2400
		4-07-69	(8) 16.7	167.9	2400
		5-01-69	(8) 19.8	164.8	2400
		6-02-69	(8) 22.3	162.3	2400
		7-01-69	(8) 22.5	162.1	2400
		8-04-69	(8) 22.8	161.8	2400
		9-10-69	(8) 23.4	161.2	2400
8S/02E-20F03M	209.0	10-04-68	(1)		2400
		11-06-68	31.3	177.7	2400
		12-05-68	32.6	176.4	2400
		1-10-69	33.7	175.3	2400
		2-07-69	31.3	177.7	2400
		3-07-69	22.3	186.7	2400
		4-09-69	(4) 25.6	183.4	2400
		5-08-69	(2) 28.4	180.6	2400
		6-09-69	30.0	179.0	2400
		7-02-69	29.2	179.8	2400
		8-04-69	30.5	178.5	2400
		9-11-69	31.5	177.5	2400
8S/02E-22D01M	239.7	10-02-68	15.4	224.3	2400
		11-12-68	16.2	223.5	2400
		12-05-68	17.0	222.7	2400
		1-10-69	15.6	224.1	2400
		2-07-69	10.3	229.4	2400
		3-06-69	10.0	229.7	2400
		4-11-69	11.2	228.5	2400
		5-13-69	13.5	226.2	2400
		6-12-69	12.7	227.0	2400
		7-08-69	12.4	227.3	2400
		8-12-69	18.2	221.5	2400
		9-16-69	15.4	224.3	2400

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH BAY AREA 2-09.02 (Continued)					
8S/01W-15B01M	331.2	10-01-68	(6) 32.4	298.8	2400
		11-26-68	(6) 35.0	296.2	2400
		12-17-68	(6) 34.0	297.2	2400
		1-21-69	(6) 33.0	298.2	2400
		2-18-69	(6) 31.0	300.2	2400
		3-14-69	(6) 28.0	303.2	2400
		4-15-69	25.3	305.9	2400
		5-06-69	25.7	305.5	2400
9S/02E-01J01M	314.6	10-02-68	36.8	277.8	2400
		11-12-68	32.6	282.0	2400
		12-06-68	33.4	281.2	2400
		1-13-69	32.6	282.0	2400
		2-10-69	26.2	288.4	2400
		3-10-69	16.8	297.8	2400
		4-11-69	17.6	297.0	2400
		5-13-69	22.8	291.8	2400
		7-08-69	30.8	283.8	2400
		8-12-69	33.0	281.6	2400
		9-16-69	(1)		2400
9S/02E-02J02M	287.6	10-02-68	(2) 30.3	257.3	2400
		11-08-68	26.8	260.8	2400
		12-06-68	23.2	264.4	2400
		1-13-69	23.7	263.9	2400
		2-07-69	22.2	265.4	2400
		3-07-69	8.8	278.8	2400
		4-10-69	6.4	281.2	2400
		5-08-69	8.5	279.1	2400
		6-10-69	11.9	275.7	2400
		7-02-69	13.5	274.1	2400
		8-05-69	16.1	271.5	2400
		9-02-69	17.5	270.1	2400
		9-30-69	(2) 20.8	266.8	2400
LIVERMORE VALLEY 2-10.00					
2S/02E-25N01M	555.3	10-00-68	10.5	544.8	5100
		4-00-69	7.5	547.8	5100
2S/01W-26C01M	416.9	10-00-68	37.4	379.5	5100
		4-00-69	35.1	381.8	5100
3S/01E-07Q01M	321.7	10-00-68	(0)		5100
3S/01E-09R02M	353.2	10-02-68	134.0	219.2	5100
		11-06-68	113.0	240.2	5100
		12-04-68	118.5	234.7	5100
		1-02-69	104.0	249.2	5100
		2-05-69	99.7	253.5	5100
		3-05-69	95.5	257.7	5100
		4-02-69	90.0	263.2	5100
		5-08-69	91.5	261.7	5100
		6-04-69	(1) 127.0	226.2	5100
		7-02-69	(1) 112.0	241.2	5100
		8-06-69	(1) 133.0	220.2	5100
		9-03-69	118.9	234.3	5100
3S/01E-10Q02M	368.7	10-02-68	119.5	249.2	5100
		11-06-68	109.7	259.0	5100
		12-04-68	119.5	249.2	5100
		1-02-69	121.8	246.9	5100
		2-05-69	114.5	254.2	5100
		3-05-69	107.0	261.7	5100
		4-02-69	102.9	265.8	5100
		5-08-69	106.6	262.1	5100
		6-04-69	(1) 114.5	254.2	5100
		7-02-69	(1) 126.9	241.8	5100
		8-06-69	(1) 135.6	233.1	5100
		9-03-69	(1) 137.5	231.2	5100
3S/01E-11H01M	372.9	10-00-68	133.5	239.4	5100
		4-00-69	117.5	255.4	5100
3S/01E-17R01M	347.0	10-02-68	117.8	229.2	5100
		11-06-68	116.8	230.2	5100
		12-04-68	(6)		5100
3S/01E-19A03M	328.0	10-02-68	113.5	214.5	5100
		11-06-68	107.7	220.3	5100
		12-04-68	106.9	221.1	5100
		1-02-69	103.1	224.9	5100
		2-05-69	99.7	228.3	5100
		3-05-69	98.9	229.1	5100
		4-02-69	97.2	230.8	5100
		5-08-69	94.4	233.6	5100
		6-04-69	92.2	235.8	5100
		7-02-69	93.7	234.3	5100
		8-06-69	98.6	229.4	5100
		9-03-69	95.2	232.8	5100
3S/02E-10H01M	551.0	10-00-68	100.1	450.9	5100
		4-00-69	96.3	454.7	5100
3S/02E-16E02M	508.0	10-02-68	101.9	406.1	5100
		11-06-68	101.9	406.1	5100
		12-04-68	98.9	409.1	5100
		1-02-69	98.8	409.2	5100
		2-05-69	96.4	411.6	5100
		3-05-69	92.9	415.1	5100
		4-02-69	95.4	412.6	5100
		5-08-69	93.4	414.6	5100
		6-04-69	97.4	410.6	5100
		7-02-69	105.3	402.7	5100
		8-06-69	(1) 132.9	375.1	5100
		9-03-69	100.1	407.9	5100

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LIVERMORE VALLEY 2-10.00 (Continued)					
3S/02E-19D01M	411.6	10-02-68	193.0	218.6	5100
		11-06-68	184.0	227.6	5100
		12-04-68	182.8	228.8	5100
		1-02-69	177.7	233.9	5100
		2-05-69	168.8	242.8	5100
		3-05-69	157.9	253.7	5100
		4-02-69	149.9	261.7	5100
		5-08-69	148.5	263.1	5100
		6-04-69	155.7	255.9	5100
		7-02-69	162.0	249.6	5100
		8-06-69	175.0	236.6	5100
		9-03-69	181.1	230.5	5100
HALF MOON BAY TERRACE 2-22.00					
5S/05W-19J01M	53.0	3-17-69	13.7	39.3	5050
		7-00-69	(0)		5050
5S/05W-20L01M	73.0	10-17-68	20.8	52.2	5050
		11-20-68	27.8	45.2	5050
		12-17-68	14.6	58.4	5050
		1-22-69	19.1	53.9	5050
		2-20-69	15.3	57.7	5050
		3-17-69	13.8	59.2	5050
		4-16-69	15.1	57.9	5050
		5-13-69	16.7	56.3	5050
		6-17-69	16.9	56.1	5050
		7-00-69	(0)		5050
5S/05W-29F04M	50.0	10-17-68	19.3	30.7	5050
		11-20-68	18.4	31.6	5050
		12-17-68	17.2	32.8	5050
		1-22-69	8.7	41.3	5050
		2-20-69	6.1	43.9	5050
		3-17-69	(4) 7.9	42.1	5050
		4-16-69	9.9	40.1	5050
		5-13-69	12.2	37.8	5050
		6-17-69	14.7	35.3	5050
		7-00-69	(0)		5050
5S/05W-29N01M	46.0	3-17-69	25.9	20.1	5050
		7-00-69	(0)		5050
5S/05W-32K01M	90.0	10-17-68	28.7	61.3	5050
		11-20-68	29.0	61.0	5050
		12-17-68	32.3	57.7	5050
		1-22-69	28.3	61.7	5050
		2-20-69	26.9	63.1	5050
		3-17-69	25.8	64.2	5050
		4-16-69	24.8	65.2	5050
		5-13-69	23.8	66.2	5050
		6-17-69	25.7	64.3	5050
		7-00-69	(0)		5050
5S/06W-10J01M	35.0	3-17-69	0.5	34.5	5050
		7-00-69	(0)		5050
6S/05W-08A01M	108.0	10-17-68	57.2	50.8	5050
		11-20-68	57.5	50.5	5050
		12-20-68	58.0	50.0	5050
		2-20-69	55.2	52.8	5050
		3-17-69	55.4	52.6	5050
		4-16-69	55.1	52.9	5050
		5-13-69	55.7	52.3	5050
		6-17-69	55.4	52.6	5050
		7-00-69	(0)		5050
6S/05W-08B01M	108.0	10-17-68	(0)		5050
SAN GREGORIO VALLEY 2-24.00					
7S/05W-14C01M	80.0	10-17-68	13.4	66.6	5050
		11-20-68	12.9	67.1	5050
		12-17-68	12.5	67.5	5050
		1-22-69	11.6	68.4	5050
		2-20-69	9.1	70.9	5050
		3-17-69	10.9	69.1	5050
		4-16-69	11.3	68.7	5050
		5-13-69	11.6	68.4	5050
		6-17-69	11.6	68.4	5050
		7-00-69	(0)		5050
7S/05W-15C01M	80.0	3-17-69	2.7	77.3	5050
		7-00-69	(0)		5050
7S/05W-15E01M	75.2	3-17-69	FLOW		5050
		7-00-69	(0)		5050
7S/05W-15E02M	30.0	10-17-68	14.4	15.6	5050
		11-20-68	14.3	15.7	5050
		12-17-68	13.5	16.5	5050
		1-22-69	14.1	15.9	5050
		2-20-69	8.3	21.7	5050
		3-17-69	11.7	18.3	5050
		4-16-69	12.8	17.2	5050
		5-13-69	13.6	16.4	5050
		6-17-69	14.0	16.0	5050
		7-00-69	(0)		5050
7S/05W-15H02M	40.0	3-17-69	(1)		5050
		7-00-69	(0)		5050
FESCADERO VALLEY 2-26.00					
6S/05W-09H01M	20.0	10-17-68	4.7	15.3	5050
		11-20-68	4.5	15.5	5050
		12-17-68	4.0	16.0	5050
		1-22-69	1.5	18.5	5050
		2-20-69	3.0	17.0	5050
		3-17-69	3.0	17.0	5050
		4-16-69	3.3	16.7	5050
		5-13-69	3.6	16.4	5050
		6-17-69	3.9	16.1	5050
		7-00-69	(0)		5050
8S/05W-10F01M	25.0	3-17-69	(6)		5050
		7-00-69	(0)		5050
8S/05W-10H01M	40.0	3-17-69	3.3	36.7	5050
		7-00-69	(0)		5050
8S/05W-10K01M	37.0	10-17-68	18.3	18.7	5050
		11-20-68	18.2	18.8	5050
		12-17-68	17.7	19.3	5050
		1-22-69	(1) 6.4	30.6	5050
		2-20-69	3.4	33.6	5050
		3-17-69	7.1	29.9	5050
		4-16-69	11.9	25.1	5050
		5-13-69	13.4	23.6	5050
		6-17-69	15.3	21.7	5050
		7-00-69	(0)		5050
8S/05W-11F01M	70.0	10-17-68	16.2	53.8	5050
		11-20-68	15.0	55.0	5050
		12-17-68	11.8	58.2	5050
		1-22-69	5.3	64.7	5050
		2-20-69	5.7	64.3	5050
		3-17-69	6.6	63.4	5050
		4-16-69	7.4	62.6	5050
		5-13-69	9.8	60.2	5050
		6-17-69	11.5	58.5	5050
		7-00-69	(0)		5050
8S/05W-11K02M	60.0	3-17-69	1.9	58.1	5050
		7-00-69	(0)		5050
8S/05W-11M01M	45.0	3-17-69	11.3	33.7	5050
		7-00-69	(0)		5050
CENTRAL COASTAL REGION 3-00.00					
SOQUEL VALLEY 3-01.00					
11S/01W-09L01M	124.2	10-17-68	56.5	67.7	5050
		11-20-68	56.1	68.1	5050
		12-18-68	58.9	65.3	5102
		1-22-69	56.9	67.3	5102
		2-20-69	56.1	68.1	5050
		3-18-69	55.1	69.1	5050
		4-16-69	54.2	70.0	5050
		5-13-69	53.3	70.9	5050
		6-17-69	53.5	70.7	5050
		7-00-69	(0)		5050
11S/01W-10C01M	90.0	10-17-68	61.4	28.6	5050
		11-20-68	60.7	29.3	5050
		12-18-68	60.7	29.3	5102
		1-22-69	60.3	29.7	5102
		2-20-69	59.9	30.1	5050
		3-18-69	59.6	30.4	5050
		4-16-69	59.4	30.6	5050
		5-13-69	59.9	30.1	5050
		6-17-69	60.7	29.3	5050
		7-00-69	(0)		5050
11S/01W-15E02M	87.0	10-17-68	55.7	31.3	5050
		11-20-68	55.0	32.0	5050
		12-18-68	(2) 59.9	27.1	5102
		1-22-69	55.3	31.7	5102
		2-20-69	54.2	32.8	5050
		3-18-69	54.4	32.6	5050
		4-16-69	53.8	33.2	5050
		5-13-69	53.7	33.3	5050
		6-17-69	57.3	29.7	5050
		7-00-69	(0)		5050
PAJARO VALLEY 3-02.00					
11S/02E-27A01M	141.0	10-08-68	128.5	12.5	5050
		11-14-68	129.7	11.3	5050
		1-17-69	121.8	19.2	5050
		2-14-69	103.0	38.0	5050
		3-06-69	117.5	23.5	5050
		4-09-69	100.5	40.5	5050
		5-02-69	101.5	39.5	5050
		6-03-69	102.5	38.5	5050
		7-02-69	104.5	36.5	5050
		8-13-69	129.5	11.5	5050
		9-11-69	123.6	17.4	5050

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PAJARO VALLEY 3-02.00 (Continued)					
12S/01E-24G01M	9.4	10-08-68	16.5	-7.1	5050
		11-14-68	12.6	-3.2	5050
		1-17-69	5.6	3.8	5050
		2-14-69	4.8	4.6	5050
		3-06-69	6.1	3.3	5050
		4-09-69	4.6	4.8	5050
		5-02-69	11.1	-1.7	5050
		6-03-69	15.1	-5.7	5050
		7-02-69	22.6	-13.2	5050
		8-13-69	22.1	-12.7	5050
		9-11-69	17.8	-8.4	5050
12S/02E-11E04M	36.0	10-08-68	33.0	3.0	5050
		11-14-68	27.0	9.0	5050
		1-17-69	24.0	12.0	5050
		2-14-69	20.1	15.9	5050
		3-06-69	19.7	16.3	5050
		4-09-69	19.4	16.6	5050
		5-02-69	24.9	11.1	5050
		6-03-69	13.7	22.3	5050
		7-02-69	21.2	14.8	5050
		8-13-69	20.7	15.3	5050
		9-11-69	16.4	19.6	5050
12S/02E-16J01M	20.5	10-08-68	20.0	0.5	5050
		11-14-68	17.6	2.9	5050
		1-17-68	13.5	7.0	5050
		2-14-69	(9)		5050
		3-06-69	(9)		5050
		4-09-69	(9)		5050
		5-02-69	(1)		5050
		6-03-69	(1)		5050
		7-02-69	(9)		5050
		8-13-69	26.3	-5.8	5050
		9-11-69	26.1	-5.6	5050
12S/02E-31K01M	30.0	12-05-68	31.0	-1.0	2100
13S/01E-01A01M	5.0	10-21-68	4.7	0.3	2100
		3-19-69	0.0	5.0	2100
		9-18-69	4.2	0.8	2100
13S/02E-05B01M	136.0	10-08-68	138.6	-2.6	5050
		11-14-68	140.6	-4.6	5050
		1-17-69	136.6	-0.6	5050
		2-14-69	136.6	-0.6	5050
		3-06-69	134.6	1.4	5050
		4-09-69	133.6	2.4	5050
		5-02-69	132.6	3.4	5050
		6-03-69	134.6	1.4	5050
		7-02-69	(9)		5050
		8-13-69	(2)		5050
		9-11-69	(7)		5050
13S/02E-06B01M	15.0	10-08-68	19.6	-4.6	5050
		11-14-68	17.2	-2.2	5050
		1-17-69	(9)		5050
		2-14-69	(9)		5050
		3-06-69	10.7	4.3	5050
		4-09-69	(9)		5050
		5-02-69	11.8	3.2	5050
		6-03-69	(9)		5050
		7-02-69	15.1	-0.1	5050
		8-13-69	18.0	-3.0	5050
		9-11-69	18.4	-3.4	5050
13S/02E-06C01M	26.0	10-21-68	27.2	-1.2	2100
		3-19-69	19.5	6.5	2100
		7-18-69	24.5	1.5	2100
13S/02E-06E02M	27.8	11-15-68	27.0	0.8	2100
		3-19-69	20.0	7.8	2100
		9-18-69	27.0	0.8	2100
13S/02E-06E03M	30.0	10-21-68	(1)		2100
		11-15-68	28.8	1.2	2100
		3-19-69	25.8	4.2	2100
		7-18-69	32.6	-2.6	2100
		8-21-69	(1)		2100
		9-18-69	(1)		2100
GILROY-HOLLISTER VALLEY 3-03.00					
SOUTH SANTA CLARA COUNTY 3-03.01					
9S/03E-16J01M	385.7	10-04-68	(1)		2400
		11-13-68	107.4	278.3	2400
		12-06-68	109.8	275.9	2400
		1-13-69	107.3	278.4	2400
		2-10-69	85.8	299.9	2400
		3-10-69	63.2	322.5	2400
		4-11-69	64.8	320.9	2400
		5-12-69	62.6	323.1	2400
		6-12-69	70.8	314.9	2400
		7-08-69	80.5	305.2	2400
		8-12-69	77.2	308.5	2400
		9-15-69	84.6	301.1	2400
9S/03E-21K02M	361.6	10-07-68	88.3	273.3	2400
		11-13-68	87.9	273.7	2400
		12-06-68	83.3	278.3	2400
		1-14-69	79.4	282.2	2400
		2-10-69	60.1	301.5	2400
		3-10-69	39.4	322.2	2400
		4-11-69	40.7	320.9	2400
		5-12-69	38.5	323.1	2400
		6-12-69	45.4	316.2	2400
		8-12-69	57.8	303.8	2400
		9-15-69	(1)		2400

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH SANTA CLARA COUNTY 3-03.01 (Continued)					
9S/03E-22B03M	379.1	10-07-68	102.0	277.1	2400
		11-13-68	101.8	277.3	2400
		12-06-68	96.6	282.5	2400
		1-14-69	96.2	282.9	2400
		2-10-69	86.7	292.4	2400
		3-10-69	57.3	321.8	2400
		4-11-69	56.6	322.5	2400
		5-12-69	55.3	323.8	2400
		6-11-69	62.5	316.6	2400
		8-12-69	68.2	310.9	2400
		9-02-69	69.2	309.9	2400
9S/03E-23E01M	362.5	10-07-68	117.8	244.7	2400
		11-13-68	120.0	242.5	2400
		12-06-68	116.3	246.2	2400
		1-14-69	112.2	250.3	2400
		2-10-69	70.6	291.9	2400
		3-10-69	44.5	318.0	2400
		4-11-69	43.8	318.7	2400
		5-12-69	48.6	313.9	2400
		6-11-69	(7)		2400
		8-12-69	(7)		2400
		9-15-69	(1)		2400
9S/03E-26P01M	329.1	10-07-68	(4) 90.3	238.8	2400
		11-13-68	83.8	245.3	2400
		12-06-68	85.7	243.4	2400
		1-14-69	82.3	246.8	2400
		2-11-69	62.2	266.9	2400
		3-10-69	30.0	299.1	2400
		4-11-69	28.3	300.8	2400
		5-09-69	33.4	295.7	2400
		6-11-69	54.6	274.5	2400
		8-12-69	51.5	277.6	2400
		9-15-69	49.4	279.7	2400
9S/03E-27C02M	347.0	10-07-68	84.2	262.8	2400
		11-13-68	87.6	259.4	2400
		12-06-68	82.7	264.3	2400
		1-14-69	78.8	268.2	2400
		2-11-69	54.4	292.6	2400
		3-10-69	33.2	313.8	2400
		4-11-69	31.7	315.3	2400
		5-12-69	33.8	313.2	2400
		6-11-69	44.4	302.6	2400
		7-08-69	46.0	301.0	2400
		8-12-69	51.7	295.3	2400
		9-15-69	49.4	297.6	2400
9S/03E-29B01M	397.6	4-08-69	1.1	396.5	5050
9S/03E-34D02M	327.0	10-07-68	72.7	254.3	2400
		11-13-68	68.9	258.1	2400
		12-06-68	63.6	263.4	2400
		1-14-69	62.7	264.3	2400
		2-11-69	43.6	283.4	2400
		3-10-69	20.3	306.7	2400
		4-11-69	19.8	307.2	2400
		5-09-69	23.4	303.6	2400
		6-11-69	(7)		2400
		8-12-69	29.2	297.8	2400
		9-15-69	40.8	286.2	2400
9S/03E-34Q01M	314.2	10-07-68	59.3	254.9	2400
		11-13-68	60.2	254.0	2400
		12-06-68	50.3	263.9	2400
		1-14-69	52.6	261.6	2400
		2-13-69	24.4	289.8	2400
		3-11-69	12.4	301.8	2400
		4-11-69	13.2	301.0	2400
		5-09-69	15.8	298.4	2400
		6-11-69	23.7	290.5	2400
		8-12-69	29.2	285.0	2400
		9-15-69	30.6	283.6	2400
9S/03E-36E02M	309.3	10-07-68	88.3	221.0	2400
		11-13-68	77.1	232.2	2400
		12-06-68	79.7	229.6	2400
		1-14-69	78.4	230.9	2400
		2-13-69	61.3	248.0	2400
		3-11-69	37.4	271.9	2400
		4-11-69	(4) 43.8	265.5	2400
		5-09-69	38.8	270.5	2400
		6-11-69	56.6	252.7	2400
		8-11-69	54.0	255.3	2400
		9-15-69	59.8	249.5	2400
9S/03E-36F03M	322.0	10-07-68	103.7	218.3	2400
		11-13-68	95.0	227.0	2400
		12-06-68	97.8	224.2	2400
		1-14-69	95.5	226.5	2400
		2-11-69	78.5	243.5	2400
		3-11-69	63.4	258.6	2400
		4-10-69	59.7	262.3	2400
		5-09-69	62.6	259.4	2400
		6-11-69	(7)		2400
		8-11-69	(7)		2400
		9-15-69	79.2	242.8	2400
10S/03E-02K03M	290.0	10-07-68	57.4	232.6	5050
		11-13-68	62.7	227.3	5050
		1-16-69	55.7	234.3	5050
		2-13-69	27.5	262.5	5050
		3-05-69	20.2	269.8	5050
		4-08-69	21.6	268.4	5050
		5-01-69	26.3	263.7	5050
		6-02-69	32.2	257.8	5050
		7-01-69	37.2	252.8	5050
		8-13-69	(1)		5050
		9-11-69	40.8	249.2	5050

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH SANTA CLARA COUNTY 3-03.01 (Continued)					
10S/03E-13J03M	251.0	10-07-68	55.6	195.4	5050
		11-13-68	52.6	198.4	5050
		1-16-69	48.9	202.1	5050
		2-13-69	29.8	221.2	5050
		3-05-69	21.6	229.4	5050
		4-08-69	18.6	232.4	5050
		5-01-69	(1)		5050
		6-02-69	(1)		5050
		7-01-69	(1)		5050
		8-13-69	(1)		5050
		9-11-69	37.9	213.1	5050
10S/03E-36E03M	220.0	10-07-68	36.0	184.0	5050
		11-13-68	36.7	183.3	5050
		1-16-69	36.6	183.4	5050
		2-13-69	(7)		5050
		3-05-69	31.7	188.3	5050
		4-08-69	26.6	193.4	5050
		5-01-69	24.9	195.1	5050
		6-02-69	26.9	193.1	5050
		7-01-69	(1)		5050
		8-13-69	35.6	184.4	5050
		9-11-69	34.0	186.0	5050
10S/04E-18G02M	259.5	10-07-68	69.6	189.9	5050
		11-13-68	68.2	191.3	5050
		1-16-69	63.8	195.7	5050
		2-13-69	48.0	211.5	5050
		3-05-69	39.8	219.7	5050
		4-08-69	35.4	224.1	5050
		5-01-69	39.4	220.1	5050
		6-02-69	43.2	216.3	5050
		7-01-69	49.3	210.2	5050
		8-13-69	51.2	208.3	5050
		9-11-69	55.4	204.1	5050
10S/04E-31G04M	197.5	10-21-68	45.5	152.0	5200
		11-18-68	43.5	154.0	5200
		12-16-68	45.5	152.0	5200
		1-20-69	40.5	157.0	5200
		2-17-69	28.5	169.0	5200
		3-17-69	21.5	176.0	5200
		4-21-69	21.5	176.0	5200
		5-19-69	24.5	173.0	5200
		6-16-69	31.5	166.0	5200
		7-22-69	39.5	158.0	5200
		8-18-69	41.5	156.0	5200
		1-15-69	41.5	156.0	5200
10S/04E-35E01M	248.0	4-08-69	68.0	180.0	5050
11S/04E-06B01M	197.2	10-21-68	53.0	144.2	5200
		11-18-68	47.0	150.2	5200
		12-16-68	51.0	146.2	5200
		1-20-69	44.0	153.2	5200
		2-17-69	31.0	166.2	5200
		3-17-69	25.0	172.2	5200
		4-21-69	26.0	171.2	5200
		5-19-69	31.0	166.2	5200
		6-16-69	42.0	155.2	5200
		7-22-69	39.0	158.2	5200
		8-18-69	47.0	150.2	5200
		9-15-69	46.0	151.2	5200
11S/04E-06D01M	211.0	10-21-68	65.0	146.0	5200
		11-18-68	59.0	152.0	5200
		12-16-68	61.0	150.0	5200
		1-20-69	53.0	158.0	5200
		2-17-69	40.0	171.0	5200
		3-17-69	37.0	174.0	5200
		4-21-69	37.0	174.0	5200
		5-19-69	40.0	171.0	5200
		6-16-69	45.0	166.0	5200
		7-22-69	49.0	162.0	5200
		8-18-69	55.0	156.0	5200
		9-15-69	57.0	154.0	5200
11S/04E-06H01M	191.5	10-21-68	46.0	145.5	5200
		11-18-68	45.0	146.5	5200
		12-16-68	45.0	146.5	5200
		1-20-69	37.0	154.5	5200
		2-17-69	25.0	166.5	5200
		3-17-69	22.0	169.5	5200
		4-21-69	23.0	168.5	5200
		5-19-69	27.0	164.5	5200
		6-16-69	30.0	161.5	5200
		7-22-69	39.0	152.5	5200
		8-18-69	42.0	149.5	5200
		9-15-69	41.0	150.5	5200
11S/04E-06P02M	201.7	10-21-68	57.0	144.7	5200
		11-18-68	52.0	149.7	5200
		12-16-68	54.0	147.7	5200
		1-20-69	45.0	156.7	5200
		2-17-69	33.0	168.7	5200
		3-17-69	29.0	172.7	5200
		4-21-69	31.0	170.7	5200
		5-19-69	34.0	167.7	5200
		6-16-69	36.0	165.7	5200
		7-22-69	39.0	162.7	5200
		8-18-69	51.0	150.7	5200
		9-15-69	50.0	151.7	5200
11S/04E-08K02M	179.0	10-07-68	36.2	142.8	5050
		11-13-68	35.7	143.3	5050
		1-16-69	26.9	152.1	5050
		2-13-69	15.2	163.8	5050
		3-05-69	8.4	170.6	5050
		4-08-69	10.1	168.9	5050
SOUTH SANTA CLARA COUNTY 3-03.01 (Continued)					
11S/04E-08K02M (Continued)	179.0	5-01-69	11.2	167.8	5050
		6-02-69	16.8	162.2	5050
		7-01-69	24.7	154.3	5050
		8-13-69	29.2	149.8	5050
		9-11-69	28.4	150.6	5050
SAN BENITO COUNTY 3-03.02					
11S/05E-13D01M	255.7	10-07-68	36.4	219.3	5050
		11-13-68	41.6	214.1	5050
		1-16-69	42.9	212.8	5050
		2-13-69	34.9	220.8	5050
		3-05-69	18.6	237.1	5050
		4-08-69	20.7	235.0	5050
		5-01-69	21.1	234.6	5050
		6-02-69	(7)		5050
		7-01-69	29.8	225.9	5050
		8-12-69	21.9	233.8	5050
		9-11-69	21.1	234.6	5050
12S/04E-20C01M	152.9	3-01-69	22.5	130.4	5151
12S/05E-10R01M	211.6	10-07-68	86.1	125.5	5050
		11-13-68	91.2	120.4	5050
		1-16-69	86.3	125.3	5050
		2-13-69	81.7	129.9	5050
		3-05-69	60.6	151.0	5050
		4-08-69	67.6	144.0	5050
		5-01-69	77.1	134.5	5050
		6-02-69	83.1	128.5	5050
		7-01-69	85.2	126.4	5050
		8-12-69	83.6	128.0	5050
		9-11-69	85.8	125.8	5050
12S/05E-12M04M	215.0	10-07-68	86.8	128.2	5050
		11-13-68	87.9	127.1	5050
		1-16-69	87.6	127.4	5050
		2-13-69	(9)		5050
		3-05-69	(9)		5050
		4-08-69	79.3	135.7	5050
		5-01-69	73.4	141.6	5050
		6-02-69	72.6	142.4	5050
		7-01-69	74.3	140.7	5050
		8-12-69	75.8	139.2	5050
		9-11-69	77.6	137.4	5050
12S/05E-33A01M	280.0	10-07-68	86.4	193.6	5050
		11-13-68	98.0	182.0	5050
		1-16-69	93.9	186.1	5050
		2-13-69	93.7	186.3	5050
		3-05-69	86.0	194.0	5050
		4-08-69	79.9	200.1	5050
		5-01-69	79.5	200.5	5050
		6-02-69	(1)		5050
		7-01-69	86.5	193.5	5050
		8-12-69	(1)		5050
		9-11-69	87.8	192.2	5050
12S/05E-35N02M	303.0	10-07-68	134.4	168.6	5050
		11-13-68	125.4	177.6	5050
		1-16-69	117.4	185.6	5050
		2-13-69	116.4	186.6	5050
		3-05-69	114.4	188.6	5050
		4-08-69	111.4	191.6	5050
		5-01-69	104.4	198.6	5050
		6-02-69	(1)		5050
		7-01-69	120.4	182.6	5050
		8-12-69	(1)		5050
		9-11-69	127.2	175.8	5050
13S/05E-11Q01M	325.5	3-01-69	30.6	294.9	5151
SALINAS VALLEY 3-04.00					
PRESSURE AREA 180 FOOT AQUIFER 3-04.01					
14S/02E-03C01M	10.6	11-27-68	18.1	-7.5	2100
15S/02E-01Q01M	42.0	10-17-68	(1)		2100
		11-20-68	39.7	2.3	2100
		12-17-68	37.0	5.0	2100
		1-24-69	31.7	10.3	2100
		2-17-69	31.6	10.4	2100
		3-19-69	28.7	13.3	2100
		4-15-69	38.1	3.9	2100
		5-13-69	(1)		2100
		6-16-69	42.5	-0.5	2100
		7-14-69	(1)		2100
		8-18-69	(1)		2100
		9-15-69	52.0	-10.0	2100
15S/03E-16M01M	58.0	10-18-68	(1)		2100
		11-20-68	43.5	14.5	2100
		3-20-69	29.0	29.0	2100
		9-15-69	62.5	-4.5	2100
15S/04E-33A01M	125.0	12-06-68	84.1	40.9	2100
16S/04E-11D01M	110.0	12-05-68	49.7	60.3	2100
PRESSURE AREA 400 FOOT AQUIFER 3-04.01					
13S/02E-31Q01M	11.0	11-25-68	13.5	-2.5	2100

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PRESSURE AREA 400 FOOT AQUIFER 3-04.01 (Continued)					
14S/03E-18J01M	69.0	10-18-68	89.9	-20.9	2100
		11-20-68	77.0	-8.0	2100
		12-17-68	75.0	-6.0	2100
		1-24-69	67.7	1.3	2100
		2-17-69	65.0	4.0	2100
		3-18-69	63.1	5.9	2100
		4-15-69	66.0	3.0	2100
		5-13-69	81.6	-12.6	2100
		6-16-69	90.0	-21.0	2100
		7-14-69	96.0	-27.0	2100
		8-18-69	97.2	-28.2	2100
		9-15-69	(1)		2100
EAST SIDE AREA 3-04.02					
16S/05E-17R01M	181.0	12-05-68	109.1	71.9	2100
ARROYO SECO CONE 3-04.04					
18S/06E-15M01M	277.0	10-18-68	101.7	175.3	2100
		12-18-68	99.0	178.0	2100
		1-17-69	95.5	181.5	2100
		2-18-69	80.6	196.4	2100
		3-19-69	82.2	194.8	2100
		4-17-69	83.6	193.4	2100
		5-20-69	87.0	190.0	2100
		6-17-69	88.0	189.0	2100
		7-15-69	92.3	184.7	2100
		8-19-69	93.2	183.8	2100
		9-17-69	94.0	183.0	2100
19S/06E-11C01M	373.0	10-18-68	185.1	187.9	2100
		11-22-68	183.2	189.8	2100
		12-18-68	190.6	182.4	2100
		1-16-69	169.0	204.0	2100
		2-17-69	157.4	215.6	2100
		3-18-69	150.5	222.5	2100
		4-16-69	(1)		2100
		5-21-69	(1)		2100
		6-18-69	(1)		2100
		7-16-69	(1)		2100
		8-20-69	(1)		2100
		9-16-69	(1)		2100
UPPER VALLEY AREA 3-04.05					
19S/07E-10P01M	315.0	10-17-68	82.1	232.9	2100
		11-21-68	80.9	234.1	2100
		12-17-68	81.8	233.2	2100
		1-16-69	79.6	235.4	2100
		2-17-69	77.0	238.0	2100
		3-18-69	78.7	236.3	2100
		4-16-69	(1)		2100
		5-21-69	91.3	223.7	2100
		6-18-69	87.5	227.5	2100
		7-16-69	95.0	220.0	2100
		8-20-69	95.8	219.2	2100
		9-16-69	97.3	217.7	2100
20S/08E-05R01M	337.0	10-17-68	66.6	270.4	2100
		11-21-68	67.5	269.5	2100
		12-17-68	63.9	273.1	2100
		1-16-69	63.0	274.0	2100
		2-17-69	(8)		2100
		3-18-69	61.8	275.2	2100
		4-16-69	(1)		2100
		5-21-69	(1)		2100
		6-18-69	(1)		2100
		7-16-69	75.6	261.4	2100
		8-20-69	(1)		2100
		9-16-69	(1)		2100
21S/09E-07J02M	364.0	10-17-68	25.2	338.8	2100
		11-22-68	25.0	339.0	2100
		12-17-68	24.7	339.3	2100
		1-16-69	24.6	339.4	2100
		2-17-69	20.0	344.0	2100
		3-18-69	17.2	346.8	2100
		4-16-69	(1)		2100
		5-21-69	19.5	344.5	2100
		6-18-69	20.9	343.1	2100
		7-16-69	21.3	342.7	2100
		8-20-69	(1)		2100
		9-16-69	24.0	340.0	2100
21S/10E-32N01M	400.0	11-25-68	21.7	378.3	2100
22S/10E-16K01M	472.0	11-26-68	71.0	401.0	2100
PASO ROBLES BASIN 3-04.06					
24S/11E-25N01M	603.3	3-28-69	40.8	562.5	5117
24S/11E-33R01M	565.0	3-28-69	30.0	535.0	5117
24S/11E-35D01M	572.1	3-28-69	30.0	542.1	5117
24S/11E-35J01M	616.8	10-22-68	63.0	553.8	5117
		4-07-69	(9)		5117
24S/15E-27L01M	1211.5	10-08-68	43.5	1168.0	5117
		4-18-69	(9)		5117
24S/15E-33C02M	1225.0	10-08-68 (4)	48.6	1176.4	5117

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PASO ROBLES BASIN 3-04.06 (Continued)					
25S/11E-35G01M	895.0	10-23-68	62.5	832.5	5117
		4-07-69	60.0	835.0	5117
25S/11E-36N02M	837.5	10-23-68	54.1	783.4	5117
		4-07-69	42.9	794.6	5117
25S/12E-17J01M	640.0	10-24-68	62.0	578.0	5117
		4-07-69 (8)	41.5	598.5	5117
25S/12E-17R01M	640.0	10-24-68	58.7	581.3	5117
		4-07-69	(1)		5117
25S/12E-26K01M	749.0	10-24-68	(1)		5117
		4-24-69	(7)		5117
25S/12E-28N01M	639.0	10-24-68	23.3	615.7	5117
		5-01-69	(1)		5117
25S/13E-11E01M	1185.0	10-24-68	59.2	1125.8	5117
		4-24-69	57.2	1127.8	5117
25S/13E-19R01M	915.0	10-24-68	177.4	737.6	5117
		4-24-69	177.4	737.6	5117
25S/16E-17L01M	1164.5	10-08-68	29.1	1135.4	5117
26S/12E-04N01M	675.0	10-23-68	48.3	626.7	5117
		4-07-69	41.2	633.8	5117
26S/12E-26E01M	840.0	4-08-69	190.2	649.8	5117
26S/13E-05F01M	740.0	10-24-68	19.5	720.5	5117
		4-24-69	15.9	724.1	5117
26S/13E-10D01M	800.0	4-24-69	11.6	788.4	5117
26S/14E-17L01M	949.0	10-23-68	28.6	920.4	5117
		4-25-69	12.3	936.7	5117
26S/14E-18Q01M	930.0	10-23-68	33.8	896.2	5117
		4-25-69	19.3	910.7	5117
26S/14E-24B01M	1000.0	10-17-68	56.5	943.5	5117
		4-25-69	42.5	957.5	5117
26S/14E-35D01M	1135.0	4-18-69	116.0	1019.0	5117
26S/15E-16P02M	1047.0	11-18-68	23.7	1023.3	5117
		4-25-69	16.9	1030.1	5117
26S/15E-21P01M	1072.0	11-18-68	40.9	1031.1	5117
		4-25-69	39.4	1032.6	5117
26S/15E-28Q01M	1090.0	11-18-68	54.1	1035.9	5117
		4-25-69	55.2	1034.8	5117
26S/15E-29N01M	1133.0	10-17-68	97.8	1035.2	5117
		4-18-69	73.3	1059.7	5117
27S/12E-04P04M	701.0	10-22-68	19.2	681.8	5117
		4-24-69	12.5	688.5	5117
27S/12E-21C01M	741.0	10-21-68	18.4	722.6	5117
		4-24-69	8.2	732.8	5117
27S/13E-24N01M	1030.0	10-04-68	46.6	983.4	5117
		4-18-69	5.3	1024.7	5117
27S/13E-33L01M	1180.0	10-03-68	129.0	1051.0	5117
		4-18-69	109.7	1070.3	5117
27S/15E-03E01M	1120.0	11-18-68	60.1	1059.9	5117
		4-25-69	51.7	1068.3	5117
27S/15E-10R02M	1130.0	11-18-68	65.5	1064.5	5117
27S/15E-13A01M	1155.0	4-25-69	(5)		5117
27S/16E-07P01M	1225.0	11-18-68	68.6	1156.4	5117
		4-25-69	59.4	1165.6	5117
27S/16E-35Q01M	1281.0	11-19-68	13.8	1267.2	5117
		4-25-69	11.1	1269.9	5117
28S/12E-10R02M	805.0	10-21-68	34.1	770.9	5117
		4-24-69	10.2	794.8	5117
28S/12E-25R01M	877.0	10-22-68	24.0	853.0	5117
		4-24-69	10.1	866.9	5117
28S/13E-04K01M	1199.5	4-18-69	30.6	1168.9	5117
28S/13E-04K02M	1195.0	4-18-69	83.5	1111.5	5117
28S/13E-31K01M	884.8	10-22-68	18.0	866.8	5117
		4-24-69	2.8	882.0	5117
28S/16E-23M01M	1440.0	11-19-68	(9)		5117
		4-29-69	17.3	1422.7	5117
29S/13E-05F03M	915.6	10-22-68	18.5	897.1	5117
		4-24-69	12.3	903.3	5117
29S/13E-05K02M	928.5	10-22-68	15.3	913.2	5117
		4-24-69	7.2	921.3	5117
29S/13E-06A01M	920.0	10-22-68 (4)	77.3	842.7	5117
		4-24-69	27.6	892.4	5117

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PASO ROBLES BASIN 3-04.06 (Continued)					
29S/13E-08M01M	945.0	10-22-68	11.9	933.1	5117
		3-16-69	4.0	941.0	5117
		4-01-69	7.0	938.0	5117
29S/13E-19H01M	1002.1	10-22-68	12.7	989.4	5117
		4-01-69	3.9	998.2	5117
SEASIDE AREA 3-04.08					
14S/02E-31M01M	119.9	11-08-68	126.6	-6.7	5005
		12-19-68	122.8	-2.9	5005
		2-13-69	121.5	-1.6	5005
		3-19-69	121.5	-1.6	5005
		4-16-69	122.3	-2.4	5005
		5-14-69	125.4	-5.5	5005
		6-19-69	128.3	-8.4	5005
		7-16-69	129.1	-9.2	5005
		8-20-69	130.0	-10.1	5005
		9-18-69	128.1	-8.2	5005
15S/01E-14N01M	144.6	12-19-68	114.0	30.6	5005
		2-13-69	112.2	32.4	5005
		3-19-69	114.5	30.1	5005
		4-16-69	116.2	28.4	5005
		5-14-69	120.6	24.0	5005
		6-19-69	124.4	20.2	5005
		7-16-69	122.2	22.4	5005
		8-20-69	123.7	20.9	5005
		9-18-69	124.3	20.3	5005
CARMEL VALLEY 3-07.00					
16S/01E-16L01M	75.0	10-21-68	(4)		2100
		11-15-68	18.6	56.4	2100
		12-18-68	20.1	54.9	2100
		2-18-69	13.3	61.7	2100
		3-19-69	(4)		2100
		4-17-69	14.3	60.7	2100
		5-23-69	17.1	57.9	2100
		6-20-69	17.6	57.4	2100
		7-18-69	18.4	56.6	2100
		8-21-69	18.7	56.3	2100
		9-18-69	(1)		2100
16S/01E-22E01M	82.0	10-21-68	31.0	51.0	2100
		11-15-68	31.3	50.7	2100
		12-18-68	34.5	47.5	2100
		2-18-69	(9)		2100
		3-19-69	27.0	55.0	2100
		4-17-69	26.3	55.7	2100
		5-23-69	23.3	58.7	2100
		6-20-69	24.9	57.1	2100
		7-18-69	(1)		2100
		8-21-69	27.1	54.9	2100
		9-18-69	27.5	54.5	2100
16S/01E-23F01M	109.0	10-21-68	32.0	77.0	2100
		11-15-68	33.5	75.5	2100
		12-18-68	41.4	67.6	2100
		2-18-69	33.1	75.9	2100
		3-19-69	23.8	85.2	2100
		4-17-69	23.3	85.7	2100
		5-23-69	26.1	82.9	2100
		6-20-69	26.3	82.7	2100
		7-18-69	27.0	82.0	2100
		8-21-69	27.5	81.5	2100
		9-18-69	29.0	80.0	2100
16S/01E-25B01M	140.0	10-21-68	(1)		2100
		11-15-68	19.6	120.4	2100
		12-18-68	22.1	117.9	2100
		2-18-69	16.5	123.5	2100
		3-19-69	13.0	127.0	2100
		4-17-69	14.3	125.7	2100
		5-23-69	15.1	124.9	2100
		6-20-69	(1)		2100
		7-18-69	16.5	123.5	2100
		8-21-69	17.0	123.0	2100
		9-18-69	18.5	121.5	2100
WEST SANTA CRUZ TERRACE 3-26.00					
11S/02W-21E01M	65.0	11-21-68	58.7	6.3	5050
		12-18-68	58.8	6.2	5102
		7-00-69	(0)		5050
11S/02W-22K01M	30.0	11-21-68	(6)		5050

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

Appendix D

SURFACE WATER QUALITY

INTRODUCTION

This appendix contains surface water quality data collected from October 1, 1968, through September 30, 1969. The data were collected from 129 stream and estuarine stations in the Central Coastal Area by the U. S. Bureau of Reclamation and the Department of Water Resources. Only those stations from which data are collected routinely are shown on Figure D-1. The U. S. Bureau of Reclamation data were collected for its Delta-San Luis Drainage Surveillance Program and are basically confined to the Sacramento-San Joaquin Delta and Suisun Bay, the latter being included in this report.

The Department of Water Resources Laboratory uses procedures from "Standard Methods for the Examination of Water and Wastewater", 12th Edition, 1967, for the determination of mineral, nutrient, and biological constituents. Pesticides are determined in accordance with the "Guide to the Analysis of Pesticide Residues", U. S. Department of Health, Education and Welfare, 1965.

The U. S. Air Force at McClellan Air Force Base provides laboratory services for the Bureau of Reclamation. It uses procedures in accordance with the "FWPCA Methods for Chemical Analysis of Water and Wastes", November 1968, for all parameters.

Two numbering systems are used in this bulletin for identifying water quality stations. The first is for those stations for which the flow of water can be measured readily, as in streams and rivers. This system is described in Department of Water Resources Bulletin No. 157, "Index of Stream Gaging Stations in and Adjacent to California", which will be published in 1970.

The second numbering system is used for those stations located in broad water bodies. This system is described as follows: The first two digits identify the hydrologic basin as in the first system. The third digit identifies the type of water body being identified, and for this publication is a "B" for Bay, "D" for Delta, "O" for Ocean, and "S" for Slough. The next digit is the last digit of the latitude in degrees, "3" for 33°, or "9" for 29°. The next three digits are the minutes of latitude to the tenth of a minute. The last four digits are longitude in the same manner as latitude.

<u>Example</u>: EO B 807.3 145.6

EO	San Francisco Bay
B	Water Body -- Bay
8	28° Latitude
07.3	07.3 Minutes Latitude
1	121° Longitude
45.6	45.6 Minutes Longitude

SURFACE WATER MEASUREMENT STATIONS

Hydrographic Area B

Sacramento-San Joaquin Delta (B9)

B9 1110	Sacramento River at Collinsville

Hydrographic Area E

San Francisco Bay (E0)

E0 3300	Suisun Bay at Benicia

Napa-Solano (E3)

E3 1400	Rector Reservoir near Yountville

SURFACE WATER QUALITY STATIONS

Hydrographic Area D

Santa Cruz (D0)

D0 1200.00	San Lorenzo River at Big Trees
D0 3100.00	Soquel Creek at Soquel

Pajaro-San Benito Rivers (D1)

D1 1250.00	Pajaro River at Chittenden
D1 1371.50	Uvas Creek near Morgan Hill
D1 2450.00	San Benito River near Bear Valley Fire Station

Lower Salinas River (D2)

D2 1220.00	Salinas River near Spreckels
D2 1310.10	Salinas River near Chular
D2 1325.10	Salinas River near Gonzales
D2 1450.00	Arroyo Seco near Soledad
D2 1850.00	Salinas River near Bradley

Upper Salinas River (D3)

D3 1450.00	Salinas River at Paso Robles
D3 3250.00	Nacimiento River near San Miguel

Monterey Coast (D4)

D4 1200.00	Carmel River at Robles Del Rio

Hydrographic Area E

San Francisco Bay (E0)

E0 B 736.2 211.6	San Francisco Bay at San Mateo Bridge
E0 B 748.4 228.2	San Francisco Bay at Fort Point
E0 B 749.2 222.4	San Francisco Bay at Treasure Island
E0 B 757.7 225.6	San Pablo Bay at Point San Pablo

Napa-Solano (E3)

E3 1100.50	Napa River at Dutton Landing
E3 1500.00	Napa River near St. Helena

Alameda Creek (E5)

E5 1150.00	Alameda Creek near Niles
E5 1400.00	Arroyo Del Valle near Livermore

Santa Clara Valley (E6)

E6 4250.00	Coyote Creek near Madrone
E6 5250.00	Los Gatos Creek at Los Gatos

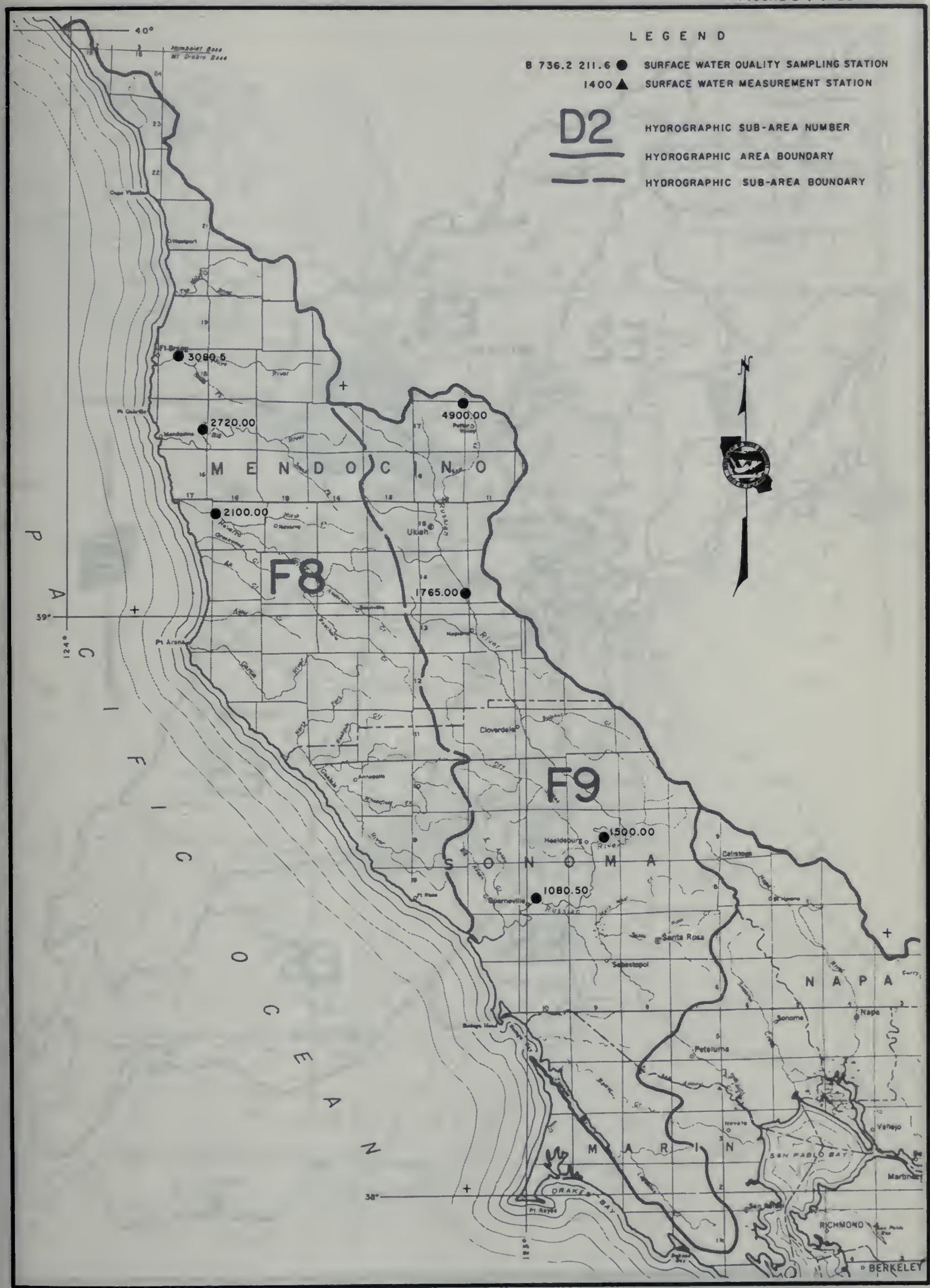
Hydrographic Area F

Mendocino Coast (F8)

F8 2100.00	Navarro River near Navarro
F8 2720.00	Big River near Mouth
F8 3080.50	Noyo River near Fort Bragg

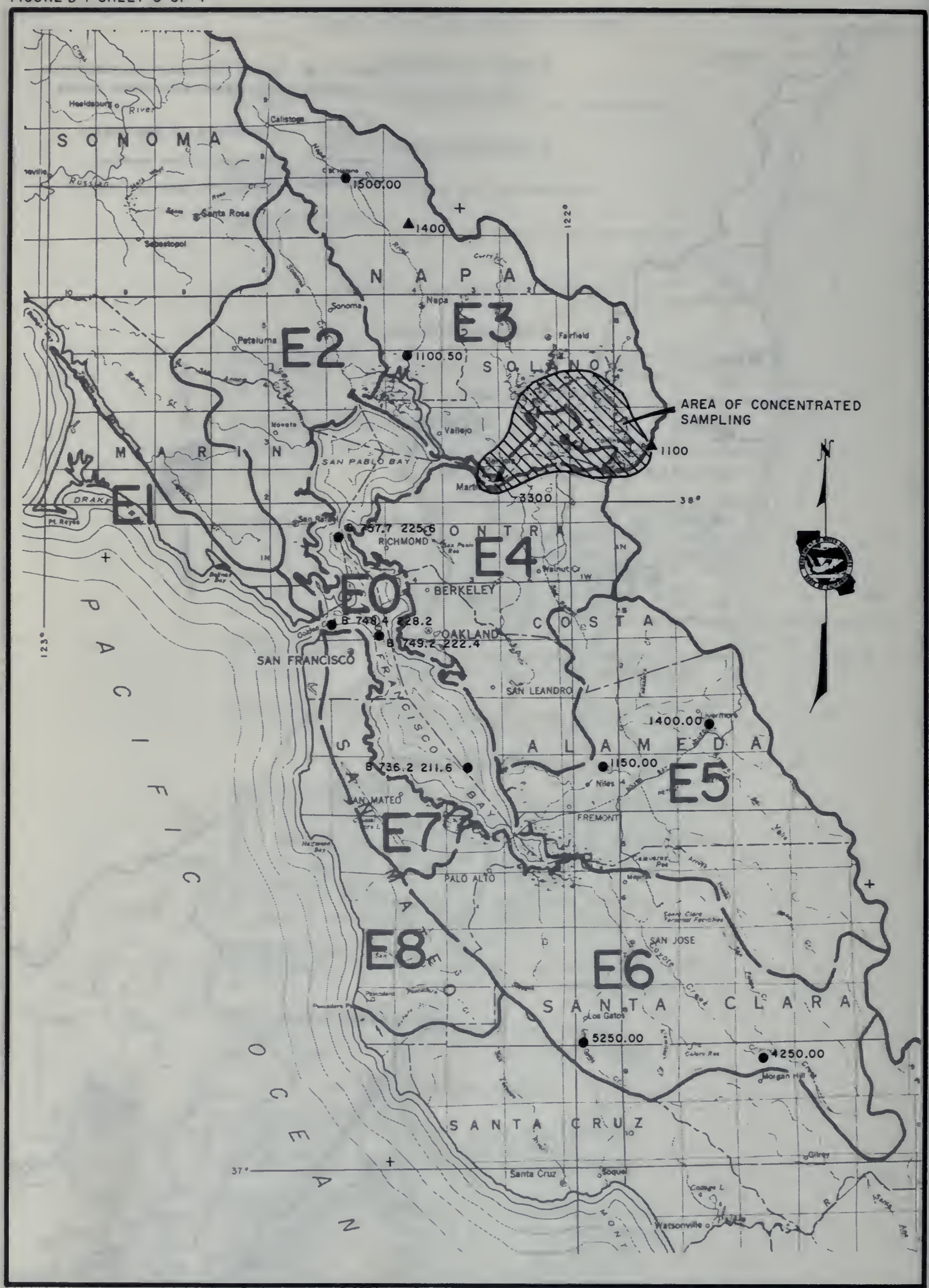
Russian River (F9)

F9 1080.50	Russian River at Guerneville
F9 1500.00	Russian River near Healdsburg
F9 1765.00	Russian River near Hopland
F9 4900.00	Russian River, East Fork, at Potter Valley Powerhouse

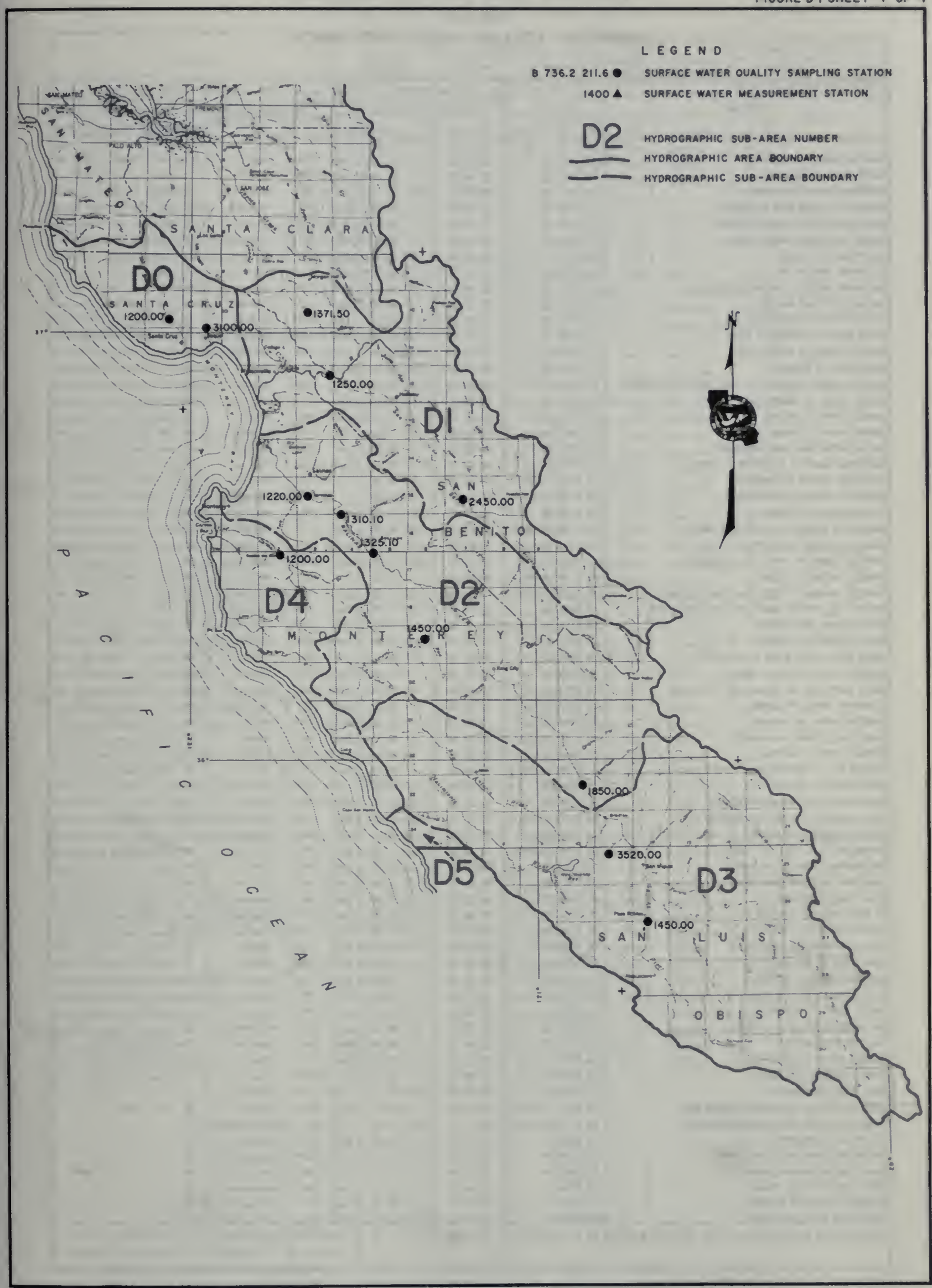


SURFACE WATER OBSERVATION STATIONS 1967-68

FIGURE D-I SHEET 3 OF 4



SURFACE WATER OBSERVATION STATIONS 1967-68



SURFACE WATER OBSERVATION STATIONS 1967-68

TABLE D-1

SAMPLING STATION DATA AND INDEX

Station	Station Number	Location Latitude ° ' "	Location Longitude ° ' "	Beginning Of Record	Frequency Of Sampling	Data on pages indicated: Tables D-2	D-3	D-4	D-5	D-6	D-7	Fig. D-2
ALAMEDA CREEK NEAR NILES	E5 1150.00	37 35 14	121 57 35	Dec. 1951	Monthly	85	94		103			64
ALDER CREEK AT HIGHWAY 1	D4 3035.30	35 51 30	121 24 54	April 1969	Special	71						
ANDERSON CANYON AT HIGHWAY 1	D4 3310.30	36 08 42	121 40 00	April 1969	Special	72						
ARROYO DEL VALLE NEAR LIVERMORE	E5 1400.00	37 37 24	121 45 28	July 1958	Annually	85	94					
ARROYO SECO RIVER NEAR GREENFIELD	02 1475.00	36 14 12	121 28 48	July 1969	Special	68	89					
ARROYO SECO RIVER NEAR SOLEDAD	02 1450.00	36 16 42	121 19 30	April 1969	Annually	68						
BIG CREEK AT HIGHWAY 1	D4 3201.50	36 04 18	121 35 48	April 1969	Special	71						
BIG RIVER NEAR MOUTH	F8 2720.00	39 18 53	123 42 15	Jan. 1959	Bimonthly	86	94					
BIG SANDY CREEK AT INDIAN VALLEY ROAD	D3 1035.50	35 48 36	120 42 42	April 1969	Special	68						
BIG SUR RIVER AT BIG SUR	D4 2100.00	36 14 48	121 46 24	April 1969	Special	70						
BIG SUR RIVER AT HIGHWAY 1	D4 2090.20	36 15 12	121 47 06	Feb. 1969	Special	70						
BIXBY CREEK AT OLD COAST ROAD	D4 3628.50	36 22 12	121 53 36	April 1969	Special	73						
BODFISH CREEK AT HIGHWAY 152	D1 1330.00	37 00 48	121 37 54	April 1969	Special	66						
BUCK CREEK AT HIGHWAY 1	D4 3300.30	36 08 12	121 38 42	April 1969	Special	72						
CACHAGUA CREEK AT PRINCE'S CAMP NEAR LOS PADRES	D4 1400.50	36 24 06	121 39 30	Feb. 1969	Special	70						
CARMEL RIVER AT BERONDA ROAD	D4 1095.10	36 29 18	121 44 18	Jan. 1969	Special	69						
CARMEL RIVER AT HIGHWAY 1	D4 1010.50	36 32 12	121 54 42	April 1969	Special	69						
CARMEL RIVER AT ROBLES DEL RIO	D4 1200.00	36 28 28	121 43 40	Jan. 1959	Semiannually	69	90					
CARMEL RIVER NEAR CAMP STEPHANIE	D4 1205.10	36 28 18	121 43 00	Jan. 1969	Special	70						
CARNADERO CREEK AT BLOOMFIELD AVENUE	D1 1320.00	36 57 54	121 32 00	April 1969	Special	66						
CARQUINEZ STRAIT AT CROCKETT	E0 B 803.5 213.3	38 03 28	122 13 18	1946	Four-day			95				
CARQUINEZ STRAIT AT MARTINEZ	E0 B 801.9 207.8	38 01 55	122 07 46	1926	Four-day			95				
CASTRO CANYON AT HIGHWAY 1	D4 3350.50	36 12 30	121 45 00	April 1969	Special	72						
CHADBOURNE SLOUGH AT CHADBOURNE ROAD	E0 S 811.0 204.8	38 11 00	122 04 50	Jan. 1967	Monthly	80	93		102			
CHALONE CREEK AT METZ-KING CITY ROAD	D2 1530.50	36 21 18	121 12 30	April 1969	Special	68						
CHUPINES CREEK AT CARMEL VALLEY ROAD	D4 1217.10	36 27 12	121 41 36	Jan. 1969	Special	70						
CORDELIA SLOUGH AT CYGNUS	E0 S 809.2 205.3	38 09 10	122 05 20	Jan. 1967	Monthly	79	93		102			
CORDELIA SLOUGH AT UPPER END NEAR CORDELIA	E0 S 811.5 207.2	38 11 30	122 07 10	Sept. 1967	Random	83	93		103			
CORINDA LOS TRANCOS CREEK NEAR HALF MOON BAY	E8 4302.01	37 28 50	122 24 23	March 1969	Special	85	94					
COYOTE CREEK NEAR MADRONE	E6 4250.00	37 10 06	121 38 55	Jan. 1952	Annually	85	94					
DOLAN CANYON AT HIGHWAY 1	D4 3240.50	36 06 24	121 37 24	April 1969	Special	71						
DRAIN INTO CARMEL RIVER NORTH BANK	D4 1012.50	36 32 12	121 54 36	April 1969	Special	69						
ESTRELLA RIVER AT RIVER ROAD	D3 1185.50	35 43 36	120 41 06	April 1969	Special	68						
FELIZ CANYON AT SAN LUCAS ROAD	D2 1725.00	36 06 36	121 03 24	April 1969	Special	68						
GARRAPATA CREEK AT HIGHWAY 1	D4 3645.50	36 25 00	121 54 42	April 1969	Special	73						
GRANITE CANYON AT HIGHWAY 1	D4 3700.50	36 26 12	121 55 00	April 1969	Special	73						
GREEN VALLEY CREEK AT CORDELIA	E0 S 812.7 207.8	38 12 42	122 07 48	Dec. 1968	Random	83						
GRIMES CANYON AT HIGHWAY 1	D4 3345.30	36 12 30	121 44 00	April 1969	Special	72						
GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH	E0 B 807.0 202.3	38 07 02	122 02 18	Jan. 1968	Monthly	79	92		102			
HAMES CREEK AT HIGHWAY 101	D2 1881.20	35 52 18	120 50 06	April 1969	Special	68						
HATTON CREEK AT CARMEL VALLEY ROAD	D4 1022.50	36 32 36	121 54 18	April 1969	Special	69						
HILL SLOUGH AT GRIZZLY ISLAND ROAD	E0 S 813.6 201.2	38 13 34	122 01 14	Feb. 1967	Monthly	83	93		103			
HITCHCOCK CANYON IN ROBLES DEL RIO	D4 1203.50	36 28 12	121 43 24	Feb. 1969	Special	70						
HONKER BAY NEAR WHEELER POINT	E0 B 804.4 156.2	38 04 38	121 56 12	Jan. 1968	Monthly	78	92		101			
HOT SPRINGS CANYON AT HIGHWAY 1	D4 3280.50	36 07 30	121 38 12	April 1969	Special	72						
HUERHUERO CREEK AT RIVER ROAD	D3 1391.50	35 40 30	120 41 06	April 1969	Special	68						
KIRK CREEK AT HIGHWAY 1	D4 3092.50	35 59 24	121 29 36	April 1969	Special	71						
LA BREA CREEK AT HIGHWAY 101	D1 1395.50	36 55 42	121 32 48	April 1969	Special	67						
LAFLER CANYON AT HIGHWAY 1	D4 3340.30	36 12 12	121 43 30	April 1969	Special	72						
LAS GAZAS CREEK AT GAZAS ROAD	D4 1088.50	36 29 00	121 45 00	Jan. 1969	Special	69						
LIME CREEK AT HIGHWAY 1	D4 3260.50	36 07 18	121 37 18	April 1969	Special	72						
LIMEKILN CREEK AT HIGHWAY 1	D4 3105.50	36 00 30	121 31 06	April 1969	Special	71						
LITTLE SUR RIVER AT HIGHWAY 1	D4 3610.20	36 19 54	121 53 06	Feb. 1969	Special	72						
LLAGAS CREEK AT HIGHWAY 152	D1 1490.00	37 00 18	121 32 06	April 1969	Special	67						
LOS GATOS CREEK AT LOS GATOS	E6 5250.00	37 12 30	121 59 15	Dec. 1951	Semiannually	85	94					
LOS PADRES RESERVOIR	D4 1240.10	36 23 12	121 40 06	Jan. 1969	Special	70						
MALPASO CREEK AT HIGHWAY 1	D4 3746.50	36 28 18	121 56 12	April 1969	Special	73						
MCWAY CANYON AT HIGHWAY 1	D4 3320.30	36 09 30	121 40 12	April 1969	Special	72						
MILL CREEK AT HIGHWAY 1	D4 3081.50	35 58 54	121 29 24	April 1969	Special	71						
MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD	E0 S 811.2 158.5	38 11 14	121 58 32	Feb. 1967	Monthly	82	93		102			
MONTEZUMA SLOUGH NEAR BELDONS LANDING	E0 S 811.2 158.2	38 11 13	121 58 10	July 1968	Weekly/Biweekly	81						
MUD CREEK AT HIGHWAY 1	D4 3040.30	35 51 48	121 25 48	April 1969	Special	71						
NACIMIENTO RIVER NEAR SAN MIGUEL	D3 3520.00	35 47 00	120 47 24	July 1958	Semiannually	69						
NAPA RIVER AT DUTTON LANDING	E3 1100.50	38 12 28	122 18 20	Sept. 1965	Bimonthly	84	94		103	105	106	
NAPA RIVER NEAR ST. HELENA	E3 1500.00	38 29 40	122 25 50	Dec. 1951	Semiannually	84	94					
NAVARRO RIVER NEAR NAVARRO	F8 2100.00	39 10 15	123 39 55	Jan. 1959	Bimonthly	85	94					
NOYO RIVER NEAR FORT BRAGG	*F8 3200.00	39 26 05	123 44 59	Jan. 1951	Bimonthly	86	94					
PACIFIC OCEAN AT POTATO PATCH SHOAL NR POINT BONITA	E1 0 749.4 233.2	37 49 22	122 33 12	Sept. 1969	Special		94		103			

* Formerly reported as F8 3080.50

TABLE D-1

SAMPLING STATION DATA AND INDEX

Station	Station Number	Location: Latitude ° ' "	Location: Longitude ° ' "	Beginning Of Record	Frequency Of Sampling	Data on pages indicated: Tables D-2	D-3	D-4	D-5	D-6	D-7	Fig. D-2
PACIFIC OCEAN OFF OCEAN AVENUE AT SAN FRANCISCO	E8 O 744.4 231.2	37 44 24	122 31 12	Jan. 1969	Special		94		103			
PAJARO RIVER AT CHITTENDEN	D1 1250.00	36 54 01	121 35 48	Dec. 1951	Bimonthly	66	89					
PANCHO RICO CREEK AT SOUTHERN PACIFIC RAILWAY	D2 1772.20	36 01 00	120 53 48	April 1969	Special	68						
PARTINGTON CREEK AT HIGHWAY 1	D4 3330.30	36 10 30	121 41 12	April 1969	Special	72						
PLASKETT CREEK AT HIGHWAY 1	D4 3063.50	35 55 18	121 26 06	April 1969	Special	71						
PREWITT CREEK AT HIGHWAY 1	D4 3068.50	35 56 12	121 28 12	April 1969	Special	71						
QUAIL CREEK AT OLD STAGE ROAD	D2 1260.00	36 37 00	121 31 18	April 1969	Special	67						
RAT CREEK NEAR LUCIA	D4 4100.00	36 05 36	121 37 12	April 1969	Special	73						
REDWOOD GULCH AT HIGHWAY 1 NEAR JOLON	D4 3010.00	35 50 12	121 23 24	April 1969	Special	70						
ROBINSON CANYON ABOVE CARMEL RIVER	D4 1075.50	36 31 06	121 48 36	Feb. 1969	Special	69						
ROCKY CREEK AT HIGHWAY 1	D4 3635.50	36 22 42	121 54 00	April 1969	Special	73						
RUSSIAN RIVER AT GUERNEVILLE	F9 1080.50	38 30 02	122 59 39	April 1951	Bimonthly	86	94		103			
RUSSIAN RIVER NEAR HEALDSBURG	F9 1500.00	38 44 59	123 05 28	April 1951	Semiannually	86	94					
RUSSIAN RIVER NEAR HOPLAND	F9 1765.00	39 01 35	123 07 45	April 1951	Semiannually	87	94					
RUSSIAN RIVER, EAST FORK, AT POTTER VALLEY POWERHOUSE	F9 4900.00	39 21 42	123 07 38	May 1951	Semiannually	87	94					
SACRAMENTO RIVER AT CHIPPS ISLAND	E0 B 802.8 155.0	38 02 47	121 55 02	Jan. 1968	Monthly	76	91		100			
SACRAMENTO RIVER AT COLLINSVILLE	B9 D 804.4 151.3	38 04 25	121 51 18	July 1958	Four-day			95				
SACRAMENTO RIVER AT PITTSBURG	B9 D 802.3 153.0	38 02 18	121 52 58	1945	Four-day			95				
SALINAS RIVER AT PASO ROBLES	D3 1450.00	35 37 42	120 41 06	April 1951	Semiannually	69						
SALINAS RIVER NEAR BRADLEY	D2 1850.00	35 55 40	120 52 00	July 1958	Semiannually	68	90					
SALINAS RIVER NEAR CHUALAR	D2 1310.10	36 33 18	121 32 18	Sept. 1968	Special	67						
SALINAS RIVER NEAR GONZALES	D2 1325.10	36 29 24	121 28 06	May 1969	Bimonthly	67	89					
SALINAS RIVER NEAR SPRECKELS	D2 1220.00	36 37 50	121 40 40	April 1951	Bimonthly	67	89					
SALMON CREEK EAST OF HIGHWAY 1	D4 3003.50	35 48 54	121 21 30	April 1969	Special	70						
SAN BENITO RIVER NEAR BEAR VALLEY FIRE STATION	D1 2450.00	36 36 30	121 12 00	July 1958	Semiannually	67						
SAN FRANCISCO BAY AT FORT POINT	E0 B 748.4 228.2	37 48 25	122 28 10	Oct. 1964	Bimonthly	74	90		99	105	106	
SAN FRANCISCO BAY AT GOLDEN GATE BRIDGE	E0 B 748.9 228.6	37 48 51	122 28 35	Sept. 1969	Special		90		99			
SAN FRANCISCO BAY AT SAN MATEO BRIDGE [a]	E0 B 736.2 211.6	37 36 14	122 11 34	Oct. 1964	Bimonthly	73	90		99	105	106	
SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL) [a]	E0 B 735.0 215.0	37 35 01	122 14 59	Sept. 1969	Bimonthly	73	90		99		106	
SAN FRANCISCO BAY AT TREASURE ISLAND [b]	E0 B 749.2 222.4	37 49 15	122 22 26	July 1965	Bimonthly	74	90		99	105	106	
SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND [b]	E0 B 748.1 222.4	37 48 04	122 22 25	Sept. 1969	Bimonthly	74	90		99		106	
SAN FRANCISCO BAY, SOUTH, AT COYOTE POINT	E0 B 735.5 219.4	37 35 27	122 19 26	Dec. 1966	Special	73				105		
SAN PABLO BAY AT POINT SAN PABLO [c]	E0 B 757.7 225.6	37 57 40	122 25 35	Jan. 1964	Bimonthly	74	90		100	105	106	
SAN PABLO STRAIT WEST OF THE BROTHERS [c]	E0 B 757.7 226.2	37 57 45	122 26 10	Sept. 1969	Bimonthly	75	90		100		106	
SAN JOSE CREEK AT HIGHWAY 1	D4 3800.50	36 31 24	121 55 30	April 1969	Special	73						
SAN LORENZO CREEK AT KING CITY	D2 1630.00	36 12 30	121 07 06	April 1969	Special	68						
SAN LORENZO RIVER AT BIG TREES [d]	D0 1200.00	37 01 40	122 03 30	Dec. 1951	Bimonthly	66	89		99			
SAN LORENZO RIVER AT PARADISE PARK [d]	D0 1180.01	37 00 37	122 02 34	Sept. 1969	Bimonthly	66	89					
SAN MARCOS CREEK AT HIGHWAY 101	D3 1360.50	35 43 12	120 41 42	April 1969	Special	68						
SOBERANES CREEK AT HIGHWAY 1	D4 3743.50	36 27 24	121 55 24	April 1969	Special	73						
SODA SPRINGS CREEK AT HIGHWAY 1	D4 3005.50	35 49 18	121 22 24	April 1969	Special	70						
SOQUEL CREEK AT SOQUEL	D0 3100.00	36 59 29	121 57 17	Dec. 1951	Semiannually	66	89					
SPRIG LAKE OUTFLOW AT HIGHWAY 152	D1 1333.50	37 00 12	121 40 43	April 1969	Special	66						
SUISUN BAY ABOVE AVON PIER	E0 B 803.2 204.8	38 03 13	122 04 48	Sept. 1968	Monthly	77	92		101			
SUISUN BAY AT BENICIA (END OF PIER) [e]	E0 B 802.4 208.2	38 02 24	122 08 14	Jan. 1966	Random	75	91		100	105	106	
SUISUN BAY AT BENICIA (MIDDLE OF PIER) [e]	E0 B 802.5 208.1	38 02 29	122 08 05	March 1969	Random	76	91		100	105	106	
SUISUN BAY AT NICHOLS	E0 B 803.0 159.0	38 03 01	121 58 58	Jan. 1964	Four-day			95				
SUISUN BAY AT PORT CHICAGO	E0 B 803.4 202.3	38 03 24	122 02 20	1946	Four-day			95				
SUISUN BAY NEAR PRESTON POINT	E0 B 804.0 203.0	38 03 58	122 03 00	Sept. 1968	Monthly	78	92		101			
SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	E0 B 802.3 207.1	38 02 20	122 07 06	Feb. 1968	Random	75	90		100	105		
SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS	E0 B 803.6 159.3	38 03 01	121 58 58	Jan. 1968	Monthly	77	92		101			
SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND	E0 S 810.8 202.8	38 10 50	122 02 45	Jan. 1967	Monthly	80	93		102			
SWISS CANYON AT HIGHWAY 1	D4 3580.50	36 17 42	121 51 54	April 1969	Special	72						
TORRE CANYON AT HIGHWAY 1	D4 3335.50	36 11 48	121 42 36	April 1969	Special	72						
TULARCITOS CREEK AT DOUGLAS RANCH	D4 1215.10	36 30 00	121 42 00	Jan. 1969	Special	70						
TULARCITOS CREEK AT GIRARD RANCH	D4 1225.10	36 26 36	121 39 54	Jan. 1969	Special	70						
UVAS CREEK NEAR MORGAN HILL	D1 1371.50	37 03 36	121 40 18	July 1952	Semiannually	67						
VICENTE CREEK AT HIGHWAY 1	D4 3180.50	36 02 36	121 35 00	April 1969	Special	71						
VILLA CREEK AT HIGHWAY 1	D4 3020.30	35 50 54	121 24 30	April 1969	Special	71						
WILD CATTLE CREEK AT HIGHWAY 1	D4 3078.50	35 58 12	121 28 54	April 1969	Special	71						
WILLOW CREEK AT HIGHWAY 1	D4 3050.20	35 53 42	121 27 30	April 1969	Special	71						

a Alternate stations; can be sampled at either site.

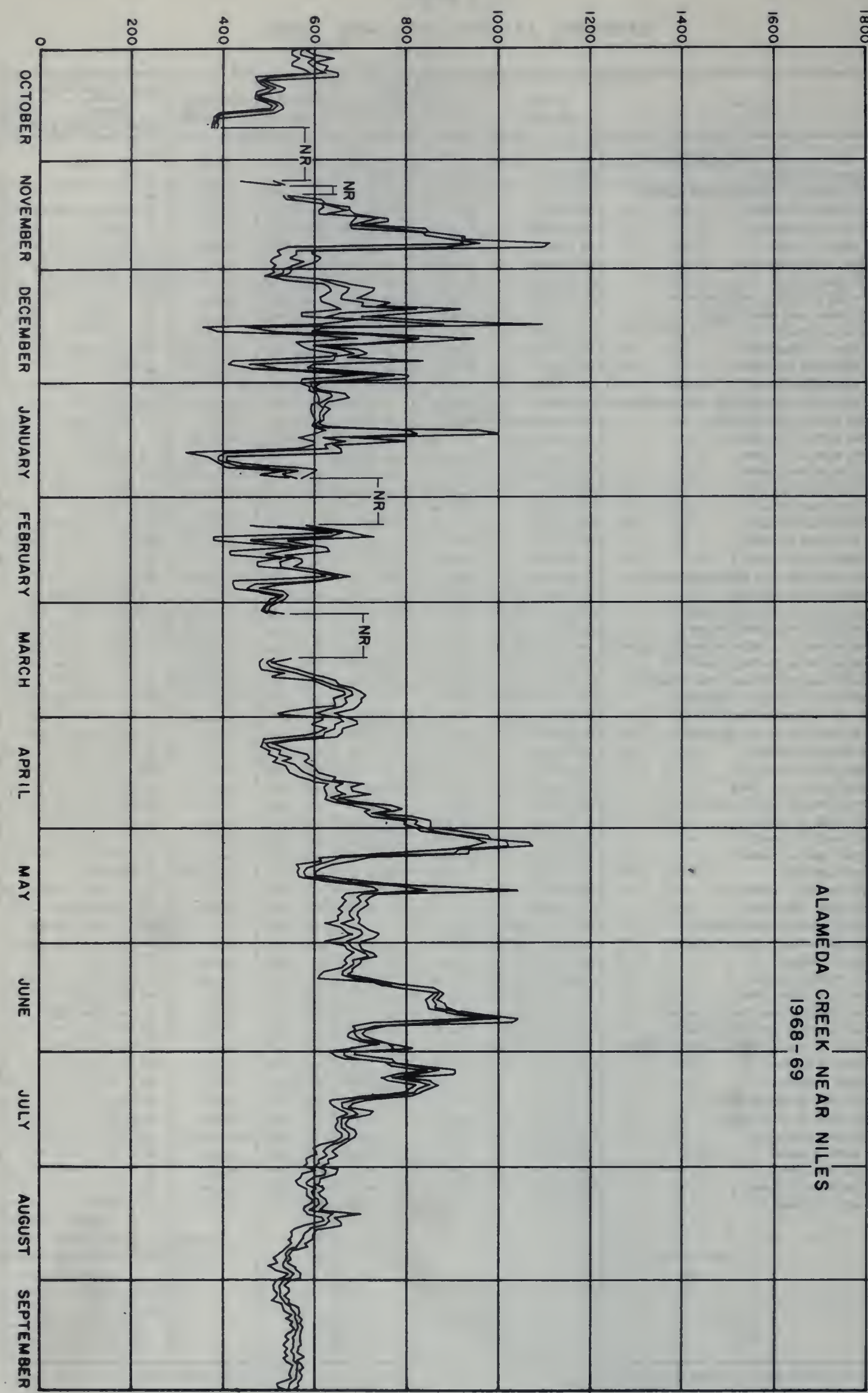
b Alternate stations; can be sampled at either site.

c Alternate stations; can be sampled at either site.

d San Lorenzo River at Paradise Park replaced the "at Big Trees" station in September 1969.

e "Middle of Pier" station replaced "End of Pier" in March 1969.

FIGURE D-2



MAXIMUM, MINIMUM, AND AVERAGE DAILY SPECIFIC CONDUCTANCE
OCTOBER 1968 THROUGH SEPTEMBER 1969

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

Abbreviations

LAB - The laboratory which analyzed the sample:

5006 McClellan Air Force Base Laboratory (used by USBR).
5050 Department of Water Resources Laboratory at Bryte.

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

G.H. - Instaneous gage height in feet above an established datum.

Q or DEPTH - Instaneous discharge measured in cubic feet per second (cfs) or depth at which sample was collected.

DO - Dissolved oxygen content in milligrams per liter.

SAT - Percent saturation.

TEMP - Water temperature in degrees Fahrenheit and Celsius.

PH - Measure of acidity or alkalinity of water.

EC - Specific electrical conductance in micromhos at 25° Celsius.

TDS - Gravimetric determination of total dissolved solids at 180° Celsius.

SUM - Summation of analyzed constituents in prescribed manner.

TH - Total hardness represents the sum of concentrations of calcium and magnesium ions expressed as milligrams per liter of calcium carbonate.

NCH - Noncarbonate hardness represents any excess of total hardness over the total alkalinity.

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter arriving at a percentage. For a partial analysis, an approximate value is determined by multiplying the electrical conductance by 0.01 and using that as the cation or anion sum.

Chemical Symbols

B	- Boron	K	- Potassium
CA	- Calcium	MG	- Magnesium
CL	- Chloride	NA	- Sodium
CO_3	- Carbonate	NO3	- Nitrate
F	- Fluoride	SIO_2	- Silica
HCO_3	- Bicarbonate	SO_4	- Sulfate

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. D	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
			DO 1180.01				SAN LORENZO RIVER AT PARADISE PARK													
09/26/69	5050		10.4	59 F	8.0	340	37	8.4	20	--	0.0	130	--	23	--	--	--	--	--	127
0945	5050		103	15 C	7.9	380	1.85	.69	.87			2.13		.65						21
							54	20	25			62		19						
			DO 1200.00				SAN LORENZO RIVER AT BIG TREES													
11/07/68	5050	1.03	10.1	52 F	8.2	396	--	--	25	--	0.0	135	--	26	--	--	0.0	--	--	133
0800	5050		92	11 C	7.4	395			1.09			2.21		.73						23
									27			55		18						
01/08/69	5050	1.46	12.5	45 F	7.8	387	40	9.0	22	--	0.0	126	--	22	--	--	0.1	--	--	137
0830	5050		103	7 C	7.6		2.00	.74	.96			2.07		.62						34
							51	19	24			53		16						
03/12/69	5050	3.29	11.9	48 F	7.9	267	30	8.7	11	--	0.0	90	--	11	--	--	0.0	--	--	111
0700	5050		103	9 C	7.3	320	1.50	.72	.48			1.48		.31						37
							56	26	17			55		11						
05/01/69	5050	2.13	11.0	50 F	8.3	325	38	8.0	17	1.4	0.0	116	46	14	0.3	--	0.5	--	206	128
0630	5050		97	10 C	7.3	340	1.90	.66	.74	.04		1.90	.96	.39					182	33
							57	20	22	1		58	30	12						
07/02/69	5050		8.6	74 F	8.3	333	38	8.5	19	--	0.0	129	--	18	--	--	--	--	--	130
1500	5000		102	23 C	7.7	310	1.90	.70	.83			2.12		.51						24
							57	21	24			63		15						
09/26/69	5050	.94	9.4	63 F	8.0	342	38	8.3	21	--	0.0	130	--	22	--	--	--	--	--	129
1300	5050		98	17 C	7.5	380	1.90	.68	.91			2.13		.62						23
							55	19	26			62		18						
			DO 3100.00				SOQUEL CREEK AT SOQUEL													
04/29/69	5050	3.50	11.0	59 F	8.3	598	70	15	31	3.5	0.0	195	108	26	0.0	--	0.2	--	378	237
1015	5050		109	15 C	8.1	560	3.49	1.23	1.35	.09		3.20	2.25	.73					349	77
							57	20	22	1		52	36	12						
09/26/69	5050	3.14	11.0	62.2F	8.3	739	74	24	47	--	0.0	241	--	68	--	--	--	--	--	287
1130	5050		114	16.7C	8.0	800	3.69	2.05	2.04			3.95		1.92						90
							49	27	27			53		25						
			D1 1250.00				PAJARO RIVER AT CHITTENDEN													
11/15/68	5050		11.2	--	8.6	2310	--	--	287	--	27	455	--	241	--	--	1.0	--	--	669
1345	5050	15			8.1	2000			12.48		.90	7.46		6.80						251
									54		3	32		29						
01/15/69	5050	2.75	9.9	49 F	8.5	1240	--	--	127	--	9.0	269	--	100	--	--	0.6	--	--	405
0940	5050		87	9 C	7.8				5.52		.30	4.41		2.82						170
									44		2	35		22						
03/05/69	5050	9.61	10.8	49 F	8.2	474	--	--	29	--	0.0	179	--	19	--	--	0.2	--	--	183
0850	5050		94	9 C	7.8				1.26			2.94		.54						36
									26			62		11						
05/14/69	5050	3.46	9.6	71 F	8.2	1030	81	60	79	1.6	0.0	390	169	77	27	--	0.5	--	723	451
1525	5050		110	22 C	8.1		4.04	4.93	3.44	.04		6.40	3.52	2.17	.43				686	131
							32	40	28			51	28	17	3					
07/03/69	5050		7.8	62 F	8.3	1370	--	--	120	--	0.0	495	--	114	--	--	0.8	--	--	493
0750	5050	10.0	81	17 C	8.2				5.22			8.12		3.21						87
									38			59		23						
09/04/69	5050		9.1	60 F	8.1	1790	9.2	134	207	5.2	0.0	523	285	200	4.9	--	0.9	--	1190	574
0810	5050		92	16 C	8.3	1350	.46	11.01	9.00	.13		8.58	5.93	5.64	.08				1102	145
							2	53	44	1		42	29	28						
			D1 1320.00				CARNADERO CREEK AT BLOOMFIELD AVENUE													
04/07/69	5050			--	8.3	305	30	16	11	1.0	0.0	144	24	9.6	2.6	--	0.0	--	159	140
1120	5050					290	1.50	1.32	.48	.03		2.36	.50	.27	.04				165	22
							45	40	14	1		74	16	9	1					
			D1 1330.00				BODFISH CREEK AT HIGHWAY 152													
04/07/69	5050			--	8.0	436	44	17	20	1.2	0.0	179	46	17	0.7	--	0.1	--	241	179
1155	5050					410	2.20	1.40	.87	.03		2.94	.96	.48	.01				234	32
							49	31	19	1		67	22	11						
			D1 1333.50				SPRIG LAKE OUTFLOW AT HIGHWAY 152													
04/07/69	5050			--	8.0	410	36	20	16	1.6	0.0	169	46	14	0.7	--	0.0	--	225	174
1210	5050					390	1.80	1.64	.70	.04		2.77	.96	.39	.01				217	36
							43	39	17	1		67	23	9						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	SC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
D1 1371.50							UVAS CREEK NEAR MORGAN HILL													
05/14/69	5050		13.4	64 F	7.9	291	31	14	8.6	1.5	0.0	148	21	5.4	0.8	--	0.1	--	168	135
1435	5050		142	18 C	8.2		1.55	1.15	.37	.04		2.43	.44	.15	.01				155	14
							50	37	12	1		80	15	5						
09/03/69	5050		8.9	78 F	7.9	336	--	--	10	--	0.0	170	--	7.0	--	--	0.0	--	--	157
1425	5050		110	26 C	7.7	300			.44			2.79		.20						18
									13			83		5						
D1 1395.50							LA BREA CREEK AT HIGHWAY 101													
04/07/69	5050			--	8.0	576	44	29	35	1.6	0.0	254	38	36	4.3	--	0.5	--	313	231
1300	5050					550	2.20	2.38	1.52	.04		4.17	.79	1.02	.07				313	23
							36	39	25	1		69	13	17	1					
D1 1490.00							LLAGAS CREEK AT HIGHWAY 152													
04/07/69	5050			--	8.0	377	32	22	9.4	2.1	0.0	186	16	8.1	8.6	--	0.1	--	184	169
1100	5050					350	1.60	1.81	.41	.05		3.05	.33	.23	.14				189	17
							41	47	11	1		81	9	6	4					
D1 2450.00							SAN BENITO RIVER NEAR BEAR VALLEY FIRE STATION													
05/14/69	5050		10.0	70 F	8.3	1120	21	92	104	1.9	0.0	446	203	51	0.1	--	1.1	--	718	429
1230	5050		113	21 C	8.4		1.05	7.56	4.52	.05		7.31	4.22	1.44					693	64
							8	57	34			56	33	11						
09/04/69	5050		9.8	76 F	8.5	1060	--	--	83	--	14	476	--	39	--	--	1.0	--	--	450
1130	5050		119	24 C	8.4	870			3.61		.47	7.81		1.10						36
									34		4	73		10						
D2 1220.00							SALINAS RIVER NEAR SPRECKELS													
11/15/68	5050		6.3	--	8.5	1420	--	--	112	--	6.0	565	--	137	--	--	0.2	--	--	472
1015	5050	10.0			7.6	1380			4.87		.20	9.27		3.86						0
									34		1	65		27						
01/15/69	5050	8.22	10.0	48 F	7.8	255	--	--	14	--	0.0	91	--	11	--	--	0.1	--	--	102
1045	5050		86	9 C	7.6				.61			1.49		.31						28
									23			58		12						
03/05/69	5050	9.16	10.9	54 F	8.2	474	--	--	28	--	0.0	137	--	19	--	--	0.1	--	--	172
1010	5050		102	12 C	8.0				1.22			2.25		.54						60
									25			47		11						
05/14/69	5050	4.71	9.5	61 F	7.9	531	51	20	32	2.4	0.0	164	95	25	2.8	--	0.1	--	368	210
0900	5050		97	16 C	6.8		2.54	1.64	1.39	.06		2.69	1.98	.71	.05				309	76
							45	29	25	1		50	36	13	1					
09/03/69	5050	4.05	10.0	68 F	7.8	437	--	--	23	--	0.0	159	--	18	--	--	0.0	--	--	180
1020	5050		111	20 C	8.2	360			1.00			2.61		.51						50
									22			59		11						
D2 1260.50							QUAIL CREEK AT OLD STAGE ROAD													
04/08/69	5050			--	8.2	498	44	12	37	1.7	0.0	158	32	51	2.8	--	0.1	--	276	160
0845	5050					480	2.20	.99	1.61	.04		2.59	.67	1.44	.05				258	31
							45	20	33	1		55	14	30	1					
D2 1310.10							SALINAS RIVER AT CHUALAR													
11/15/68	5050		12.4	--	8.3	600	--	--	37	--	0.0	189	--	28	--	--	0.2	--	--	233
1100	5050	50			8.3	600			1.61			3.10		.79						78
									26			51		13						
01/15/69	5050		12.4	48 F	7.8	281	--	--	15	--	0.0	91	--	8.0	--	--	0.0	--	--	113
1100	5050		107	9 C	8.0				.65			1.49		.23						39
									23			53		8						
03/05/69	5050		12.3	52 F	8.3	469	--	--	27	--	0.0	134	--	19	--	--	0.2	--	--	175
1100	5050		112	11 C	8.0				1.17			2.20		.54						65
									24			46		11						
D2 1325.10							SALINAS RIVER NEAR GONZALES													
05/14/69	5050		10.3	62 F	8.1	508	50	17	30	3.5	0.0	161	91	23	2.3	--	0.2	--	334	196
0945	5050		106	17 C	8.0		2.50	1.40	1.31	.09		2.64	1.89	.65	.04				296	64
							47	26	25	2		51	36	12	1					
07/02/69	5050		9.8	72 F	8.3	437	--	--	24	--	0.0	145	--	19	--	--	0.1	--	--	175
1240	5050		114	22 C	8.0				1.04			2.38		.54						56
									23			54		12						
09/03/69	5050		9.3	63 F	7.8	399	44	14	20	1.4	0.0	160	65	14	1.2	--	0.0	--	252	169
0810	5050		97	17 C	8.0	335	2.20	1.15	.87	.04		2.62	1.35	.39	.02				238	38
							52	27	20	1		60	31	9						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
			D2 1450.00				ARROYO SECO RIVER NEAR SOLEDAD													
04/08/69	5050			--	7.4	288	35	7.7	11	2.5	0.0	111	43	5.5	0.0	--	0.0	--	171	119
1620	5050					280	1.75	.63	.48	.06		1.82	.89	.16					159	28
							60	22	16	2		63	31	6						
			D2 1475.00				ARROYO SECO RIVER NEAR GREENFIELD													
07/02/69	5050		9.2	71 F	8.2	341	--	--	13	--	0.0	149	--	6.5	--	--	.00	--	--	153
1100	5050	20	105	22 C	8.1				.57			2.44		.18						31
									16			71		5						
09/02/69	5050		8.6	78 F	8.1	395	47	14	19	2.4	0.0	172	64	7.0	0.3	--	0.0	--	241	175
1410	5050		106	26 C	8.0	340	2.35	1.15	.83	.06		2.82	1.33	.20					238	34
							54	26	19	1		65	31	5						
			D2 1530.50				CHALONE CREEK AT METZ KING CITY ROAD													
04/08/69	5050			--	7.4	763	54	12	85	3.1	0.0	172	110	85	2.6	--	0.3	--	469	186
0945	5050					740	2.69	.99	3.70	.08		2.82	2.29	2.40	.04				436	45
							36	13	50	1		37	30	32	1					
			D2 1630.00				SAN LORENZO CREEK AT KING CITY													
04/08/69	5050			--	7.6	2650	118	126	329	5.5	0.0	363	1020	122	7.5	--	1.4	--	1020	812
1015	5050					2600	5.89	10.36	14.31	.14		5.95	21.22	3.44	.12				1907	515
							19	34	47			19	69	11						
			D2 1725.00				FELIZ CANYON AT SAN LUCAS ROAD													
04/08/69	5050			--	9.7	1540	116	68	111	2.7	4.7	20	409	220	7.2	--	0.2	--	1010	570
1515	5050	1.0				1500	5.79	5.59	4.83	.07	.16	.33	8.51	6.20	.12				949	546
							36	34	30		1	2	56	40	1					
			D2 1772.20				PANCHO RICO CREEK AT SOUTHERN PACIFIC RWY													
04/08/69	5050			--	7.6	3240	265	128	365	9.0	0.0	255	1530	103	15	--	1.3	--	1390	1190
1045	5050					3000	13.22	10.52	15.88	.23		4.18	31.82	2.90	.24				2541	982
							33	26	40	1		11	81	7	1					
			D2 1850.00				SALINAS RIVER NEAR BRADLEY													
05/13/69	5050	5.96	10.4	63 F	8.3	343	34	11	15	1.8	0.0	122	43	11	0.4	--	0.2	--	206	130
1155	5050		109	17 C	7.8		1.70	.90	.65	.05		2.00	.89	.31	.01				176	30
							52	27	20	2		62	28	10						
09/02/69	5050	5.86	9.1	71 F	7.9	342	35	15	14	1.3	0.0	143	47	7.5	0.5	--	0.0	--	202	149
1145	5050		104	22 C	7.9	280	1.75	1.23	.61	.03		2.35	.98	.21	.01				190	32
							48	34	17	1		66	28	6						
			D2 1881.20				HAMES CREEK AT HIGHWAY 101													
04/08/69	5050			--	7.5	586	61	18	30	5.0	0.0	158	103	27	16	--	0.2	--	382	225
1430	5050					590	3.04	1.48	1.31	.13		2.59	2.14	.76	.26				338	96
							51	25	22	2		45	37	13	5					
			D3 1035.50				BIG SANDY CREEK AT INDIAN VALLEY ROAD													
04/08/69	5050			--	7.5	1860	169	80	151	7.0	0.0	317	701	57	6.5	--	0.6	--	1500	752
1310	5050					1850	8.43	6.58	6.57	.18		5.20	14.58	1.61	.10				1327	492
							39	30	30	1		24	68	7						
			D3 1185.50				ESTRELLA RIVER AT RIVER ROAD													
04/08/69	5050			--	7.8	1620	101	60	171	4.8	0.0	298	398	140	5.2	--	0.7	--	1090	498
1330	5050					1700	5.04	4.93	7.44	.12		4.89	8.28	3.95	.08				1027	254
							29	28	42	1		28	48	23						
			D3 1360.50				SAN MARCOS CREEK AT HIGHWAY 101													
04/08/69	5050			--	7.6	1060	103	44	62	3.9	0.0	276	238	67	4.2	--	0.2	--	665	439
1410	5050					1100	5.14	3.62	2.70	.10		4.53	4.95	1.89	.07				658	213
							44	31	23	1		40	43	17	1					
			D3 1391.50				HUERHUERO CREEK AT RIVER ROAD													
04/08/69	5050			--	7.6	603	62	11	46	4.6	0.0	214	46	50	1.8	--	0.1	--	335	199
1345	5050					400	3.09	.90	2.00	.12		3.51	.96	1.41	.03				326	24
							51	15	33	2		59	16	24	1					

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
				D3 1450.00			SALINAS RIVER AT PASO ROBLES													
05/13/69	5050		11.4	62 F	8.1	837	93	32	46	2.7	0.0	310	133	46	3.9	--	0.2	--	570	366
0950	5050		118	17 C	8.0		4.64	2.63	2.00	.07		5.08	2.77	1.30	.06				509	112
							50	28	21	1		55	30	14	1					
09/02/69	5050			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1015	5050	498																		
				D3 3520.00			NACIMIENTO RIVER NEAR SAN MIGUEL													
05/13/69	5050		11.2	56 F	8.3	227	26	7.5	6.6	2.0	0.0	91	26	4.6	0.1	--	0.1	--	152	96
1045	5050		107	13 C	7.8		1.30	.62	.29	.05		1.49	.54	.13					117	22
							58	27	13	2		69	25	6						
09/02/69	5050		8.8	66 F	7.6	280	--	--	9.0	--	0.0	122	--	7.2	--	--	0.0	--	--	132
1055	5050		95	19 C	7.4	245			.39			2.00		.20						32
									13			71		7						
				D4 1010.50			CARMEL RIVER AT HIGHWAY 1													
04/23/69	5050			--	7.8	355	35	11	18	2.1	0.0	114	47	19	0.3	--	0.0	--	210	131
	5050						1.75	.90	.78	.05		1.87	.98	.54					188	38
							50	26	22	1		55	29	16						
07/02/69	5050			--	8.0	576	57	20	32	3.9	0.0	148	116	42	0.3	--	0.0	--	356	223
1500	5050	10.0				550	2.84	1.64	1.39	.10		2.43	2.41	1.18					344	102
							48	27	23	2		40	40	20						
				D4 1012.50			DRAIN INTO CARMEL RIVER NORTH BANK													
04/23/69	5050			--	7.6	349	35	10	18	2.1	0.0	106	48	21	0.5	--	0.1	--	223	130
	5050						1.75	.82	.78	.05		1.74	1.00	.59	.01				187	43
							51	24	23	1		52	30	18						
				D4 1022.50			HATTON CREEK AT CARMEL VALLEY ROAD													
04/23/69	5050			--	8.0	1040	97	25	93	1.3	0.0	284	88	144	2.5	--	0.1	--	661	325
	5050						4.84	2.06	4.05	.03		4.66	1.83	4.06	.04				590	92
							44	19	37			44	17	38						
				D4 1075.50			ROBINSON CANYON ABOVE CARMEL RIVER													
02/18/69	5050			53 F	7.8	217	19	5.4	19	1.2	0.0	48	--	23	0.5	--	0.2	--	--	70
	5050			12 C		210	.95	.45	.83	.03		.79		.65	.01					31
							43	20	38	1		36		29						
				D4 1088.50			LAS GAZAS CREEK AT GAZAS ROAD													
01/28/69	5050			--	7.9	111	8.7	2.5	6.9	1.8	0.0	38	--	9.7	1.6	--	0.0	--	--	32
0935	5050						.43	.21	.39	.05		.62		.27	.03					1
							38	18	35	4		55		24	2					
				D4 1095.10			CARMEL RIVER AT BERONDA ROAD													
01/15/69	5050			49 F	7.5	244	24	8.0	12	2.3	0.0	98	--	10	0.4	--	0.0	--	--	93
1720	5050			9 C	7.5	250	1.20	.66	.52	.06		1.61		.28	.01					13
							49	27	21	2		65		11						
04/22/69	5050			--	7.8	300	31	9.4	15	1.7	0.0	110	32	16	0.1	--	0.0	--	181	116
	5050						1.55	.77	.65	.04		1.80	.67	.45					159	26
							51	26	22	1		62	23	15						
				D4 1200.00			CARMEL RIVER AT ROBLES DEL RIO													
01/15/69	5050			49 F	7.5	242	24	8.0	12	2.3	0.0	96	--	11	0.3	--	0.0	--	--	93
1635	5050			9 C	7.6	290	1.20	.66	.52	.06		1.57		.31						15
							49	27	21	2		64		12						
05/15/69	5050	3.61	11.3	61 F	8.2	331	34	11	18	2.4	0.0	116	41	18	0.3	--	0.1	--	229	129
0905	5050		115	16 C	7.9		1.70	.90	.78	.06		1.90	.85	.51					182	34
							49	26	23	2		58	26	16						
09/03/69	5050			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1205	5050	498																		

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
			D4 1203.50				HITCHCOCK CANYON IN ROBLES DEL RIO													
02/18/69	5050			54 F	7.8	250	18	10	18	2.5	0.0	74	--	20	2.5	--	0.1	--	--	88
	5050			12 C		250	.90	.86	.78	.06		1.21		.56	.04					28
							36	34	31	2		48		22	1					
			D4 1205.10				CARMEL RIVER NEAR CAMP STEPHANIE													
01/15/69	5050			49 F	7.3	240	23	8.9	11	2.2	0.0	96	--	10	0.4	--	0.0	--	--	94
1515	5050			9 C	7.4	240	1.15	.73	.48	.06		1.57		.28	.01					16
							47	30	20	2		65		11						
			D4 1215.10				TULARCITOS CREEK AT DOUGLAS RANCH													
01/16/69	5050			--	7.7	1720	104	58	138	7.1	0.0	464	--	194	0.0	--	0.1	--	--	651
1325	5050				8.3	1500	8.18	4.83	6.00	.18		7.61		5.47						271
							47	28	34	1		44		31						
02/18/69	5050			54 F	8.2	691	57	17	56	4.5	0.0	182	--	67	4.7	--	0.1	--	--	215
	5050			12 C		600	2.84	1.45	2.44	.12		2.98		1.89	.08					66
							41	20	35	1		43		27	1					
			D4 1217.10				CHUPINES CREEK AT CARMEL VALLEY ROAD													
01/16/69	5050			--	7.5	2080	199	66	186	7.0	0.0	483	--	257	0.2	--	0.2	--	--	768
1345	5050				8.0	1800	9.93	5.43	8.09	.18		7.92		7.25						372
							47	26	38			38		34						
			D4 1225.10				TULARCITOS CREEK AT GIRARD RANCH													
01/16/69	5050			45 F	8.0	1450	141	47	110	6.0	0.0	405	--	144	0.0	--	0.0	--	--	546
1325	5050			7 C	6.7	1325	7.04	3.88	4.79	.15		6.64		4.06						214
							48	26	33	1		45		28						
			D4 1240.10				LOS PADRES RESERVOIR													
01/15/69	5050			57 F	7.3	158	16	5.3	5.2	1.4	0.0	58	--	5.6	1.0	--	0.0	--	--	62
1420	5050			14 C	7.3	175	.80	.44	.23	.04		.95		.16	.02					15
							50	27	14	2		60		10	1					
			D4 1400.50				CACHAGUA CREEK AT PRINCE'S CAMP NEAR LOS PADRES													
02/18/69	5050			54 F	8.5	383	39	12	19	3.0	3.0	128	--	18	0.9	--	0.0	--	--	148
	5050			12 C		360	1.95	1.01	.83	.08	.10	2.10		.51	.01					38
							50	26	21	2	2	54		13						
			D4 2090.20				BIG SUR RIVER AT HIGHWAY 1													
02/18/69	5050			54 F	8.3	198	26	5.6	6.1	1.0	0.0	92	--	5.0	0.1	--	0.0	--	--	88
	5050			12 C		200	1.30	.46	.27	.03		1.51		.14						13
							65	23	13	1		76		7						
05/15/69	5050			--	7.7	313	40	10	11	--	0.0	147	--	11	0.6	--	--	--	--	142
	5050						2.00	.84	.48			2.41		.31	.01					22
							63	26	15			76		9						
			D4 2100.00				BIG SUR RIVER AT BIG SUR													
04/22/69	5050			56 F	7.6	228	31	7.7	6.8	3.0	0.0	119	15	4.3	0.0	--	0.0	--	133	109
1620	5050			13 C			1.55	.63	.30	.08		1.95	.31	.12					126	12
							61	25	12	3		82	13	5						
			D4 3003.50				SALMON CREEK EAST OF HIGHWAY 1													
04/22/69	5050			53 F	8.1	295	29	19	7.0	0.7	0.0	172	14	5.5	0.0	--	0.4	--	148	149
0830	5050	15		12 C			1.45	1.56	.30	.02		2.82	.29	.16					160	8
							44	47	9	1		86	9	5						
			D4 3005.50				SODA SPRINGS CREEK AT HIGHWAY 1													
04/22/69	5050			53 F	7.9	539	56	32	12	1.5	0.0	287	44	13	0.0	--	0.0	--	273	274
0843	5050	1.5		12 C			2.79	2.63	.52	.04		4.71	.92	.37					299	39
							47	44	9	1		79	15	6						
			D4 3010.00				REDWOOD GULCH AT HIGHWAY 1 NEAR JOLON													
04/22/69	5050			52.5F	8.2	417	39	27	10	1.1	0.0	230	21	11	0.0	--	0.0	--	209	208
0855	5050	2.5		11.3C			1.95	2.22	.44	.03		3.77	.44	.31					222	20
							42	48	9	1		83	10	7						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. O	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
D4 3020.30							VILLA CREEK AT HIGHWAY 1													
04/22/69	5050			54 F	8.7	360	36	20	7.7	1.0	0.0	204	13	8.6	0.0	--	0.0	--	177	173
0900	5050	16		12 C			1.80	1.64	.33	.03		3.35	.27	.24					186	6
							47	43	9	1		87	7	6						
D4 3035.30							ALDER CREEK AT HIGHWAY 1													
04/22/69	5050			53.5F	8.1	333	29	21	8.0	0.7	0.0	184	13	9.0	0.0	--	0.0	--	164	158
0915	5050	4.0		11.9C			1.45	1.73	.35	.02		3.02	.27	.25					171	7
							41	49	10	1		85	8	7						
D4 3040.30							MUD CREEK AT HIGHWAY 1													
04/22/69	5050			54 F	8.2	700	51	47	29	--	0.0	233	--	23	0.5	--	--	--	--	321
0920	5050	0.2		12 C			2.54	3.87	1.26			3.82		.65	.01					130
							36	55	18			54		9						
D4 3050.20							WILLOW CREEK AT HIGHWAY 1													
04/22/69	5050			54 F	8.0	283	30	13	11	0.9	0.0	147	14	11	0.0	--	0.0	--	138	130
0935	5050	26		12 C			1.50	1.07	.48	.02		2.41	.29	.31					152	10
							49	35	16	1		80	10	10						
D4 3063.50							PLASKETT CREEK AT HIGHWAY 1													
04/22/69	5050			53 F	7.8	354	36	11	18	1.0	0.0	144	18	27	0.0	--	0.0	--	190	135
1020	5050	2.0		12 C			1.80	.90	.78	.03		2.36	.37	.76					182	17
							51	26	22	1		68	11	22						
D4 3068.50							PREWITT CREEK AT HIGHWAY 1													
04/22/69	5050			53 F	7.8	257	29	7.7	14	0.7	0.0	116	16	14	0.0	--	0.0	--	136	104
1030	5050	8.0		12 C			1.45	.63	.61	.02		1.90	.33	.39					138	9
							54	23	23	1		73	13	15						
D4 3078.50							WILD CATTLE CREEK AT HIGHWAY 1													
04/22/69	5050			53 F	7.8	382	46	9.5	17	0.8	0.0	156	33	19	0.0	--	0.0	--	194	154
1045	5050	2.0		12 C			2.30	.78	.74	.02		2.56	.69	.54					202	26
							60	20	19	1		68	18	14						
D4 3081.50							HILL CREEK AT HIGHWAY 1													
04/22/69	5050			54 F	8.0	387	53	12	9.6	0.9	0.0	194	25	10	0.3	--	0.0	--	199	182
1050	5050	11		12 C			2.64	.99	.42	.02		3.18	.52	.28					206	23
							65	24	10			80	13	7						
D4 3092.50							KIRK CREEK AT HIGHWAY 1													
04/22/69	5050			55 F	7.8	379	44	15	10	0.7	0.0	185	20	12	2.0	--	0.0	--	194	173
1105	5050	4.0		13 C			2.20	1.23	.44	.02		3.03	.42	.34	.03				194	22
							57	32	11	1		79	11	9	1					
D4 3105.50							LIMEKILN CREEK AT HIGHWAY 1													
04/22/69	5050			55 F	7.9	330	39	14	6.5	0.5	0.0	169	16	7.7	0.2	--	0.0	--	161	155
1115	5050	23		13 C			1.95	1.15	.28	.01		2.77	.33	.22					167	17
							58	34	8			83	10	7						
D4 3180.50							VICENTE CREEK AT HIGHWAY 1													
04/22/69	5050			53 F	8.1	305	39	11	10	0.8	0.0	156	19	1.0	0.0	--	0.0	--	157	143
1150	5050	7.0		12 C			1.95	.90	.44	.02		2.56	.40	.03					157	15
							59	27	13	1		86	13	1						
D4 3201.50							BIG CREEK AT HIGHWAY 1													
04/22/69	5050			54 F	7.8	298	43	11	5.6	0.7	0.0	169	15	4.8	0.0	--	0.0	--	158	152
1210	5050			12 C			2.15	.90	.24	.02		2.77	.31	.14					163	14
							65	27	7	1		86	10	4						
D4 3240.50							DOLAN CANYON AT HIGHWAY 1													
04/22/69	5050			--	7.5	360	47	10	8.0	0.8	0.0	178	21	10	0.5	--	0.0	--	185	160
1300	5050						2.35	.82	.35	.02		2.92	.44	.28	.01				185	14
							66	23	10	1		80	12	8						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
			04 3260.50				LIME CREEK AT HIGHWAY 1													
04/22/69	5050			57 F	7.6	397	56	12	8.5	0.5	0.0	202	22	11	0.1	--	0.0	--	185	187
1315	5050	1.5		14 C			2.79	.99	.37	.01		3.31	.46	.31					209	22
							67	24	9			81	11	8						
			04 3280.50				HOT SPRINGS CANYON AT HIGHWAY 1													
04/22/69	5050			55 F	7.8	352	50	11	7.1	0.4	0.0	187	17	7.7	0.1	--	0.0	--	191	171
1320	5050	8.0		13 C			2.50	.90	.31	.01		3.07	.35	.22					185	18
							67	24	8			84	10	6						
			04 3300.30				BUCK CREEK AT HIGHWAY 1													
04/22/69	5050			55 F	7.5	390	46	16	9.2	0.8	0.0	188	27	12	0.0	--	0.0	--	221	180
1345	5050	2.0		13 C			2.30	1.32	.40	.02		3.08	.56	.34					203	26
							57	33	10			77	14	9						
			04 3310.30				ANDERSON CANYON AT HIGHWAY 1													
04/22/69	5050			58 F	7.5	338	46	11	6.8	0.1	0.0	187	13	8.0	0.0	--	0.0	--	184	162
1400	5050	12		14 C			2.30	.90	.30			3.07	.27	.23					177	9
							66	26	9			86	8	6						
			04 3320.30				MCWAY CANYON AT HIGHWAY 1													
04/22/69	5050			55 F	7.6	333	44	11	8.1	0.1	0.0	183	9.7	8.8	0.0	--	0.0	--	167	157
1415	5050	7.5		13 C			2.20	.90	.35			3.00	.20	.25					171	7
							64	26	10			87	6	7						
			04 3330.30				PARTINGTON CREEK AT HIGHWAY 1													
04/22/69	5050			54 F	7.6	303	46	9.2	7.3	0.4	0.0	175	8.7	8.3	0.0	--	0.0	--	173	153
1425	5050	8.0		12 C			2.30	.76	.32	.01		2.87	.18	.23					166	10
							68	22	9			88	5	7						
			04 3335.50				TORRE CANYON AT HIGHWAY 1													
04/22/69	5050			54 F	7.6	356	46	13	8.5	0.4	0.0	192	22	8.1	0.0	--	0.0	--	169	170
1440	5050	5.0		12 C			2.30	1.07	.37	.01		3.15	.46	.23					192	13
							61	29	10			82	12	6						
			04 3340.30				LAFLER CANYON AT HIGHWAY 1													
04/22/69	5050			55 F	8.2	356	19	29	8.9	--	0.0	181	--	9.1	1.8	--	--	--	--	167
1455	5050	1.0		13 C			.95	2.39	.39			2.97		.26	.03					19
							26	67	10			83		7						
			04 3345.30				GRIMES CANYON AT HIGHWAY 1													
04/22/69	5050			55 F	8.0	318	19	23	7.6	--	0.0	154	--	7.6	1.6	--	--	--	--	146
1500	5050	3.0		13 C			.95	1.97	.33			2.53		.21	.03					20
							29	61	10			79		6						
			04 3350.50				CASTRO CANYON AT HIGHWAY 1													
04/22/69	5050			55 F	8.0	373	58	9.0	8.4	--	0.0	187	--	12	0.1	--	--	--	--	182
1340	5050	0.5		13 C			2.89	.74	.37			3.07		.34						29
							77	19	9			82		9						
			04 3580.50				SWISS CANYON AT HIGHWAY 1													
04/22/69	5050			61 F	8.2	471	46	18	27	--	0.0	200	--	30	0.1	--	--	--	--	189
1640	5050	1.0		16 C			2.30	1.48	1.17			3.28		.85						25
							48	31	24			69		18						
			04 3610.20				LITTLE SUR RIVER AT HIGHWAY 1													
02/18/69	5050			54 F	8.1	191	24	5.8	7.3	1.0	0.0	94	--	6.6	0.1	--	0.0	--	--	84
	5050			12 C		155	1.20	.48	.32	.03		1.54		.19						7
							62	25	16	1		80		9						
04/22/69	5050			56 F	7.6	239	30	7.3	9.0	0.7	0.0	120	15	8.4	0.0	--	0.0	--	142	105
	5050	80		13 C			1.50	.60	.39	.02		1.97	.31	.24					129	7
							60	24	16	1		78	12	10						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
			D4 3628.50				BIXBY CREEK AT OLD COAST ROAD													
04/23/69	5050			52.5F	7.9	226	24	7.0	12	0.5	0.0	103	10	14	0.0	--	0.0	--	138	89
0840	5050	36		11.3C			1.20	.58	.52	.01		1.69	.21	.39					118	5
							52	25	23			74	9	17						
			D4 3635.50				ROCKY CREEK AT HIGHWAY 1													
04/23/69	5050			53 F	8.0	207	17	7.2	14	0.9	0.0	90	4.9	16	0.0	--	0.0	--	128	72
0900	5050	26		12 C			.85	.59	.61	.02		1.48	.10	.45					104	0
							41	29	29	1		73	5	22						
			D4 3645.50				GARRAPATA CREEK AT HIGHWAY 1													
04/23/69	5050			53 F	7.7	202	13	8.6	16	1.0	0.0	82	8.1	19	0.0	--	0.0	--	126	68
0935	5050	18		12 C			.65	.71	.70	.03		1.34	.17	.54					106	1
							31	34	33	1		65	8	26						
			D4 3700.50				GRANITE CANYON AT HIGHWAY 1													
04/23/69	5050			54 F	9.8	266	13	9.1	27	0.8	25	30	8.6	35	0.0	--	0.0	--	154	70
0950	5050	2.0		12 C			.65	.75	1.17	.02	.83	.49	.18	.99					133	4
							25	29	45	1	33	20	7	40						
			D4 3743.50				SOBERANES CREEK AT HIGHWAY 1													
04/23/69	5050			56 F	9.1	295	18	8.0	28	1.4	17	57	8.2	37	0.0	--	0.0	--	164	78
1005	5050	4.0		13 C			.90	.66	1.22	.04	.57	.93	.17	1.04					146	3
							32	23	43	1	21	34	6	38						
			D4 3746.50				MALPASO CREEK AT HIGHWAY 1													
04/23/69	5050			54 F	9.8	276	16	6.3	30	1.1	28	14	15	37	2.5	--	0.0	--	164	66
1015	5050	2.5		12 C			.80	.52	1.31	.03	.93	.23	.31	1.04	.04				143	8
							30	20	49	1	36	9	12	41	2					
			D4 3800.50				SAN JOSE CREEK AT HIGHWAY 1													
04/23/69	5050			55 F	9.2	240	16	5.6	22	1.0	13	38	18	30	0.0	--	0.0	--	149	63
1055	5050	18		13 C			.80	.46	.96	.03	.43	.62	.37	.85					124	11
							36	20	43	1	19	27	16	37						
			D4 4100.00				RAT CREEK NEAR LUCIA													
04/22/69	5050	.78		55 F	8.3	356	40	10	16	0.3	0.0	156	13	23	1.7	--	0.0	--	182	143
1250	5050	1.0		13 C			2.00	.82	.70	.01		2.56	.27	.65	.03				180	15
							57	23	20			73	8	19	1					

DATE TIME	LAB SAMPLER	G.H. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
			EO 8 735.0		215.0		SAN FRANCISCO BAY AT SAN MATEO BR (SHIP CH.)													
09/16/69	5050		8.1	68 F	--	40100	--	--	--	--	--	--	--	17200	--	--	--	--	29100	--
0950	5050		90	20 C	8.1	44100								485.04						
														120						
			EO 8 735.5		219.4		SAN FRANCISCO BAY, SOUTH, AT COYOTE POINT													
02/04/69				31.9F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1750	5050			9.8C	7.6															
			EO 8 736.2		211.6		SAN FRANCISCO BAY AT SAN MATEO BRIDGE													
10/15/68	5050		7.8	62 F	--	49200	--	--	--	--	--	--	--	18000	--	--	--	--	34700	--
0855	5050		81	17 C	7.3									507.60						
														103						
12/09/68	5050		6.5	55 F	--	47400	--	--	--	--	--	--	--	17800	--	--	--	--	33900	--
0935	5050		61	13 C	8.1									501.96						
														105						
02/05/69	5050		10.2	49 F	--	22600	--	--	--	--	--	--	--	7650	--	--	--	--	14200	--
0835	5050		89	9 C	7.9	25000								215.73						
														95						
04/07/69	5050		11.0	59 F	--	28800	--	--	--	--	--	--	--	10300	--	--	--	--	19200	--
1020	5050		109	15 C	8.6	31000								290.46						
														100						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.M. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
			EO B 736.2 211.6				SAN FRANCISCO BAY AT SAN MATEO BRIDGE								CONTINUED					
06/04/69	5050		7.8	69	F	-- 32400	--	--	--	--	--	--	--	11600	--	--	--	--	22500	--
1045	5050		87	21	C	8.6 32000								327.12						
														100						
08/13/69	5050		8.2	70	F	-- 38100	--	--	--	--	--	--	--	15100	--	--	--	--	28100	--
0930	5050		93	21	C	8.2 37000								425.82						
														111						
			EO B 748.1 222.4				SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND													
09/16/69	5050			--		-- 40800	--	--	--	--	--	--	--	17500	--	--	--	--	29300	--
1100	5050													493.50						
														120						
			EO B 748.4 228.2				SAN FRANCISCO BAY AT FORT POINT													
10/14/68	5050		8.2	60	F	-- 49200	--	--	--	--	--	--	--	18200	--	--	--	--	35400	--
0945	5050		83	16	C	7.6								513.24						
														104						
12/10/68	5050		8.7	54	F	-- 48400	--	--	--	--	--	--	--	18400	--	--	--	--	34000	--
0810	5050		81	12	C	8.0 45000								518.88						
														107						
02/06/69	5050		9.5	49	F	-- 35800	--	--	--	--	--	--	--	12600	--	--	--	--	22700	--
0735	5050		83	9	C	8.2 38000								355.32						
														99						
04/08/69	5050		9.1	56	F	-- 41300	--	--	--	--	--	--	--	15000	--	--	--	--	28100	--
0840	5050		87	13	C	8.3 41000								423.00						
														102						
06/03/69	5050		7.4	57	F	-- 39900	--	--	--	--	--	--	--	15400	--	--	--	--	28900	--
0720	5050		72	14	C	7.9 40000								434.28						
														108						
08/12/69	5050		8.1	59	F	-- 43200	--	--	--	--	--	--	--	17780	--	--	--	--	32800	--
0710	5050		81	15	C	8.1 41000								501.40						
														116						
			EO B 749.2 222.4				SAN FRANCISCO BAY AT TREASURE ISLAND													
10/14/68	5050		7.5	60	F	-- 47900	--	--	--	--	--	--	--	17600	--	--	--	--	33800	--
1045	5050		76	16	C	8.2								496.32						
														103						
12/09/68	5050		7.7	53	F	-- 45800	--	--	--	--	--	--	--	17200	--	--	--	--	32600	--
0820	5050		71	12	C	7.9 55000								485.04						
														105						
02/05/69	5050		9.8	49	F	-- 27600	--	--	--	--	--	--	--	10100	--	--	--	--	18100	--
0720	5050		86	9	C	8.0 27500								284.82						
														103						
04/07/69	5050		7.8	57	F	-- 37100	--	--	--	--	--	--	--	12700	--	--	--	--	23800	--
0840	5050		76	14	C	8.2 34000								358.14						
														96						
06/04/69	5050		8.9	60	F	-- 34900	--	--	--	--	--	--	--	13000	--	--	--	--	24500	--
0840	5050		90	16	C	8.1 35000								366.60						
														105						
08/13/69	5050		6.8	63	F	-- 42000	--	--	--	--	--	--	--	17000	--	--	--	--	31900	--
0810	5050		71	17	C	7.9 40000								479.40						
														114						
			EO B 757.7 225.6				SAN PABLO BAY AT POINT SAN PABLO													
10/15/68	5050		7.3	61	F	-- 46200	--	--	--	--	--	--	--	16700	--	--	--	--	32500	--
1020	5050		74	16	C	8.0								470.94						
														101						
12/10/68	5050		8.2	54	F	-- 42000	--	--	--	--	--	--	--	15400	--	--	--	--	28900	--
0930	5050		77	12	C	7.9 40000								434.28						
														103						
02/06/69	5050		10.7	48	F	-- 13200	--	--	--	--	--	--	--	4290	--	--	--	--	7830	--
0830	5050		92	9	C	7.7 15000								120.98						
														91						
04/08/69	5050		9.6	60	F	-- 14000	--	--	--	--	--	--	--	4490	--	--	--	--	8640	--
1000	5050		97	16	C	7.9 15000								126.62						
														90						
06/03/69	5050		7.9	64	F	-- 17000	--	--	--	--	--	--	--	5850	--	--	--	--	10900	--
0930	5050		83	18	C	7.6 17000								164.97						
														97						
08/12/69	5050		8.4	66	F	-- 31600	--	--	--	--	--	--	--	12200	--	--	--	--	22700	--
0820	5050		89	19	C	7.9 31000								344.04						
														108						

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MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.M. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
EQ B 757.7 226.2 SAN PABLO STRAIT WEST OF THE BROTHERS																				
09/16/69	5050			--	--	30200	--	--	--	--	--	--	--	12500	--	--	--	--	21100	--
1200	5050													352.50						
														116						
12/17/68			10.5	32 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1345	5001	3	91	9 C	7.6	1500														
EQ B 802.3 207.1 SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ																				
10/30/68	5006		7.9	61 F	--	28250	--	--	--	--	--	--	--	9000	--	--	--	24	18189	--
1045	5001	3	80	16 C	8.0	20500								253.80						
														89						
11/25/68	5006		8.5	54 F	--	22400	--	--	--	--	--	--	--	6100	--	--	--	10	1090	--
0920	5001	3	79	12 C	8.0	23000								172.02						
														76						
12/18/68	5006		9.4	32 F	--	24600	155	523	4400	164	--	111	600	8000	--	--	0.8	12	15200	2530
1245	5001	3	81	9 C	7.8	24000	7.73	42.99	191.40	4.20		1.82	12.48	225.60					13909	2441
							3	17	78	2		1	5	94						
01/28/69	5006		10.3	50 F	--	228	--	--	--	--	--	--	--	20	--	--	--	15	151	--
1055	5001	3	91	10 C	7.0	220								.56						
														24						
02/26/69	5006		11.0	50 F	--	210	--	--	--	--	--	--	--	19	--	--	--	15	124	--
0955	5001	3	98	10 C	7.5	220								.54						
														25						
03/26/69	5006			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27	69
1230	5001	3																		69
03/27/69	5006		9.1	57 F	7.4	3600	34	79	580	25	0.0	80	1080	240	--	--	0.2	15	2100	420
0930	5001	3	89	14 C	7.4	3400	1.70	6.49	25.23	.64		1.31	22.46	6.77					2092	355
							5	19	74	2		4	74	22						
05/08/69	5006		9.2	61 F	7.7	--	--	--	--	--	--	--	--	520	--	--	--	17	1100	--
0725	5001	3	94	16 C	7.5	2000								14.66						
06/11/69	5006		8.6	66 F	--	3160	--	--	--	--	--	--	--	--	--	--	--	15	2010	--
1445	5001	3	93	19 C	7.4	3500														
07/23/69	5006		9.6	70 F	--	14690	--	--	--	--	--	--	--	4800	--	--	--	6.0	9840	--
1130	5001	3	109	21 C	8.3	10000								135.36						
														92						
08/20/69	5006		9.6	68 F	--	12380	--	--	--	--	--	--	--	4200	--	--	--	--	9340	--
1040	5001	3	106	20 C	8.2	14000								118.44						
														95						
09/18/69	5006		7.8	68 F	6.7	9220	100	230	1800	84	0.0	--	490	3240	--	--	1.15	7.0	6580	1196
0935	5001	3	86	20 C	7.9	11000	4.99	18.91	78.30	2.15			10.19	91.37						1197
							5	20	84	2			11	99						
EQ B 802.4 208.2 SUISUN BAY AT BENICIA (END OF PIER)																				
10/02/68	5050			--	--	33000	--	--	--	--	--	--	--	14000	--	--	--	--	--	--
	5050													394.80						
														119						
10/11/68	5050			--	--	26800	--	--	--	--	--	--	--	10300	--	--	--	--	--	--
	5050													290.46						
														108						
10/14/68	5050		8.2	62 F	--	28700	--	--	--	--	--	--	--	9700	--	--	--	--	18900	--
1300	5050		85	17 C	8.0									273.54						
														95						
10/17/68	5050			--	--	25800	--	--	--	--	--	--	--	8910	--	--	--	--	--	--
	5050													251.26						
														97						
10/23/68	5050			--	--	22400	--	--	--	--	--	--	--	8280	--	--	--	--	--	--
	5050													233.50						
														104						
11/01/68	5050			--	--	30400	--	--	--	--	--	--	--	11500	--	--	--	--	--	--
	5050													324.30						
														106						
11/13/68	5050			--	--	25900	--	--	--	--	--	--	--	9510	--	--	--	--	--	--
	5050													268.18						
														103						
11/20/68	5050			--	--	26900	--	--	--	--	--	--	--	10500	--	--	--	--	--	--
	5050													296.10						
														110						
12/03/68	5050			--	--	18400	--	--	--	--	--	--	--	6060	--	--	--	--	--	--
	5050													170.89						
														92						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.M. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER TDS SUM	TH NCH
			EO B 802.4 208.2				SUISUN BAY AT BENICIA (END OF PIER)												CONTINUED	
12/10/68	5050		8.8	54 F	--	25800	--	--	--	--	--	--	--	8730	--	--	--	--	17700	--
1100	5050		82	12 C	7.7	28000								246.19						
														95						
12/12/68	5050			--	--	17900	--	--	--	--	--	--	--	6010	--	--	--	--	--	--
	5050													169.48						
														94						
01/03/69	5050			--	--	14000	--	--	--	--	--	--	--	4560	--	--	--	--	--	--
	5050													128.59						
														91						
02/05/69	5050			--	--	280	--	--	--	--	--	--	--	40	--	--	--	--	--	--
	5050													1.13						
														40						
02/06/69	5050		11.5	47 F	--	238	--	--	--	--	--	--	--	29	--	--	--	--	150	--
1015	5050		98	8 C	7.4	370								.82						
														34						
08/12/69	5050	.44	7.5	71 F	--	9700	--	--	--	--	--	--	--	3380	--	--	--	--	5970	--
0950	5050		86	22 C	7.8	8500								95.32						
														98						
			EO B 802.5 208.1				SUISUN BAY AT BENICIA (MIDDLE OF PIER)													
03/11/69	5050			50 F	--	602	--	--	--	--	--	--	--	111	--	--	--	--	--	--
1110	5050			10 C										3.13						
														51						
03/24/69	5050			52 F	--	1710	--	--	--	--	--	--	--	427	--	--	--	--	--	--
1020	5050			11 C										12.04						
														70						
04/08/69	5050	6.65	9.4	60 F	--	352	--	--	--	--	--	--	--	49	--	--	--	--	229	--
1120	5050		95	16 C	7.4	350								1.38						
														39						
04/15/69	5050			60 F	--	390	--	--	--	--	--	--	--	69	--	--	--	--	--	--
1705	5050			16 C										1.95						
														50						
06/06/69	5050	7.53	8.1	71 F	--	286	--	--	--	--	--	--	--	48	--	--	--	--	167	--
1245	5050		93	22 C	7.4	275								1.35						
														47						
06/23/69	5050			--	--	2790	--	--	--	--	--	--	--	782	--	--	--	--	--	--
1330	5050													22.05						
														79						
07/03/69	5050			--	--	2520	--	--	--	--	--	--	--	690	--	--	--	--	--	--
1440	5050													19.46						
														77						
07/16/69	5050			--	--	8400	--	--	--	--	--	--	--	2550	--	--	--	--	--	--
1525	5050													71.91						
														85						
08/01/69	5050			--	--	8240	--	--	--	--	--	--	--	2420	--	--	--	--	--	--
1205	5050													68.24						
														82						
08/12/69	5050		7.5	71 F	--	9700	--	--	--	--	--	--	--	3380	--	--	--	--	5970	--
0950	5050		86	22 C	7.8	8500								95.32						
														98						
08/19/69	5050			--	--	11600	--	--	--	--	--	--	--	3710	--	--	--	--	--	--
1235	5050													104.62						
														90						
			EO B 802.8 155.0				SACRAMENTO RIVER AT CHIPPS ISLAND													
10/30/68	5006		8.9	63 F	--	10000	--	--	--	--	--	--	--	3100	--	--	--	8.1	6165	--
1200	5001	3	93	17 C	8.5	9000								87.42						
														87						
11/25/68	5006		10.0	54 F	--	5200	--	--	--	--	--	--	--	1600	--	--	--	18	3127	--
1020	5001	3	93	12 C	7.4	6500								45.12						
														86						
12/18/68	5006		10.3	32 F	--	2910	20	61	480	21	--	86	118	820	--	--	--	22	1589	299
1350	5001	3	87	8 C	7.6	3700	1.00	5.01	20.88	.54		1.41	2.46	23.12					1478	229
							4	18	76	2		5	9	86						
01/28/69	5006		11.4	32 F	--	141	--	--	--	--	--	--	--	5.0	--	--	--	14	100	--
1250	5001	3	99	9 C	7.1	145								.14						
														9						
02/26/69	5006		11.4	50 F	--	208	--	--	--	--	--	--	--	11	--	--	--	16	127	--
1145	5001	3	101	10 C	7.5	170								.31						
														14						
03/27/69	5006		10.0	59 F	7.3	220	16	8.0	18	1.6	0.0	80	18	23	--	--	--	15	185	73
1225	5001	3	100	15 C	7.4	230	.80	.66	.78	.04		1.31	.37	.65					139	8
							35	29	34	2		56	16	28						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.M. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
EO B 802.8 155.6 SACRAMENTO RIVER AT CHIPPS ISLAND CONTINUED																				
05/08/69	5006		9.8	63 F	8.2	143	--	--	--	--	--	--	--	11	--	--	--	16	69	--
0850	5001	3	102	17 C	7.5	240								.31						
														21						
06/11/69	5006		8.9	66 F	--	120	--	--	--	--	--	--	--	--	--	--	--	15	80	--
1605	5001		97	19 C	7.6	130														
07/23/69	5006		8.7	73 F	--	1355	--	--	--	--	--	--	--	375	--	--	--	11	760	--
1255	5001	3	102	23 C	7.8	1500								10.58						
														78						
08/20/69	5006		8.8	70 F	--	1500	--	--	--	--	--	--	--	415	--	--	--	10	970	--
1235	5001	3	100	21 C	7.9	1800								11.70						
														78						
09/18/69	5006		9.0	68 F	7.0	320	13	11	39	3.3	0.0	--	18	56	--	--	.45	12	202	78
1120	5001	3	100	20 C	7.8	380	.65	.90	1.70	.08			.37	1.58						78
							20	28	53	2			11	49						
EO B 803.2 204.8 SUISUN BAY ABOVE AVON PIER																				
10/30/68	5006		7.8	61 F	--	24500	--	--	--	--	--	--	--	8400	--	--	--	3.6	16398	--
1110	5001	3	79	16 C	8.0	20000								236.88						
														96						
11/25/68	5006		8.8	54 F	--	17000	--	--	--	--	--	--	--	5700	--	--	--	11	10906	--
0935	5001	3	82	12 C	7.4	17500								160.74						
														94						
12/18/68	5006		9.9	32 F	--	21000	137	442	3800	132	--	106	1000	6882	--	--	--	14	13600	2150
1300	5001	3	86	9 C	7.6	23500	6.84	36.33	165.30	3.38		1.74	20.80	194.07					12459	2065
							3	17	78	2		1	10	90						
01/28/69	5006		10.8	32 F	--	195	--	--	--	--	--	--	--	15	--	--	--	13	136	--
1120	5001	3	94	9 C	7.0	190								.42						
														21						
02/26/69	5006		10.9	50 F	--	216	--	--	--	--	--	--	--	20	--	--	--	17	143	--
1020	5001	3	97	10 C	7.4	200								.56						
														25						
03/27/69	5006			--	7.4	584	18	16	77	4.0	0.0	--	48	126	--	--	--	15	346	111
1030	5001						.90	1.32	3.35	.10			1.00	3.55						111
							15	22	57	1			17	60						
05/08/69	5006		7.4	61 F	--	862	--	--	--	--	--	--	--	255	--	--	--	18	523	--
0745	5001	3	75	16 C	7.5	1000								7.19						
														83						
06/10/69			9.4	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1400	5001	3	102	19 C	7.7	1100														
07/22/69			9.1	70 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0722	5001	3	103	21 C	7.8	10000														
08/19/69			8.6	68 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0830	5001	3	95	20 C	7.9	12000														
09/17/69	5006		8.1	66 F	--	5250	--	--	--	--	--	--	--	1700	--	--	--	9.0	3720	--
0810	5001	3	88	19 C	7.6	7000								47.94						
														91						
EO B 803.6 159.3 SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS																				
10/30/68	5006		9.0	17 F	--	13800	--	--	--	--	--	--	--	4800	--	--	--	--	8331	--
1145	5001	3	48	8 C	8.4	12000								135.36						
														98						
11/25/68	5006		9.2	54 F	--	9900	--	--	--	--	--	--	--	3500	--	--	--	14	6337	--
1005	5001	3	86	12 C	7.7	11500								98.70						
														99						
12/18/68	5006		10.3	32 F	--	6400	41	130	1030	42	--	89	230	1950	--	--	--	22	3730	635
1330	5001	3	87	8 C	7.6	6400	2.05	10.69	44.81	1.08		1.46	4.78	54.99					3489	562
							3	18	76	2		2	8	90						
01/28/69	5006		11.0	32 F	--	150	--	--	--	--	--	--	--	6.0	--	--	--	12	113	--
1210	5001	3	95	9 C	7.1	155								.17						
														11						
02/26/69	5006		11.2	50 F	--	180	--	--	--	--	--	--	--	13	--	--	--	15	118	--
1110	5001	3	99	10 C	7.2	180								.37						
														20						
03/27/69	5006		10.0	59 F	7.3	235	8.0	8.5	19	1.6	0.0	80	18	25	--	--	--	15	164	75
1140	5001	3	100	15 C	7.5	250	.40	.70	.83	.04		1.31	.37	70					112	10
							20	36	42	2		65	15	20						
05/08/69	5006		9.8	63 F	8.2	167	--	--	--	--	--	--	--	19	--	--	--	16	76	--
0830	5001	3	102	17 C	7.5	180								.54						
														32						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.M. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
			EO B 803.6 159.3				SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS												CONTINUED	
06/10/69	5006		9.2	68 F	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1445	5001	3	102	20 C	7.6	140														
07/22/69			8.6	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1110	5001	3	99	22 C	7.8	3000														
08/20/69	5006		8.5	70 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1200	5001	3	96	21 C	7.9	4750														
09/18/69	5006		9.1	68 F	--	620	--	--	--	--	--	--	--	152	--	--	--	12	396	--
1055	5001	3	101	20 C	7.8	800								4.29 69						
			EO B 804.0 203.0				SUISUN BAY NEAR PRESTON POINT													
10/30/68	5006		8.7	63 F	--	21200	--	--	--	--	--	--	--	6900	--	--	--	30	13349	--
1130	5001	3	91	17 C	8.4	16000								194.58 91						
11/25/68	5006		9.1	54 F	--	12650	--	--	--	--	--	--	--	4000	--	--	--	14	7843	--
0950	5001	3	85	12 C	7.9	13000								112.80 89						
12/18/68	5006		10.0	32 F	--	14100	10	292	2500	46	--	105	600	4400	--	--	0.8	16	8730	1421
1310	5001	3	84	8 C	7.7	14000	.50	24.00	108.75	1.18		1.72	12.48	124.08					7916	1336
								18	81	1		1	9	90						
01/28/69	5006		11.0	32 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1210	5001	3	95	9 C	7.1	155														
02/26/69	5006		11.1	32 F	--	196	--	--	--	--	--	--	--	16	--	--	--	15	132	--
1035	5001	3	96	9 C	7.5	220								.45 22						
03/27/69	5006			--	--	284	16	9.5	26	2.1	--	--	16	37	--	--	--	15	211	79
1030							.80	.78	1.13	.05			.33	1.04						79
							28	27	39	1			11	36						
03/27/69	5006		10.2	59 F	7.5	284	16	9.5	26	2.1	0.0	--	16	37	--	--	--	15	211	79
1055	5001	3	102	15 C	7.4	325	.80	.78	1.13	.05			.33	1.04						79
							28	27	39	1			11	36						
05/08/69	5006		9.5	61 F	8.3	167	--	--	--	--	--	--	--	61	--	--	--	18	174	--
0805	5001	3	97	16 C	7.6	180								1.72						
06/10/69			9.3	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1425	5001		101	19 C	7.7	160														
07/22/69			8.7	70 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1045	5001		98	21 C	7.9	7000														
08/19/69	5006		8.9	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0900	5001		97	19 C	8.9	9000														
09/17/69	5006		9.6	66 F	--	1080	--	--	--	--	--	--	--	290	--	--	--	12	660	--
0840	5001	3	104	19 C	7.6	1600								8.18 75						
			EO 8 804.4 156.2				HONKER BAY NEAR WHEELER POINT													
10/28/68	5006		8.5	61 F	--	10000	--	--	--	--	--	--	--	3200	--	--	--	--	6644	--
1025	5001	3	87	16 C	7.8	8500								90.24 90						
11/26/68	5006		9.4	52.1F	--	4950	--	--	--	--	--	--	--	1500	--	--	--	16	2615	--
0945	5001	3	86	11.2C	7.7	5400								42.30 85						
12/17/68	5006		10.5	32 F	--	4450	13	99	850	30	0.0	87	120	1300	--	--	--	20	2504	438
1320	5001	3	89	8 C	7.6	4500	.65	8.14	36.98	.77		1.43	2.50	36.66					2475	367
							1	17	79	2		4	6	90						
01/29/69	5006		11.6	32 F	--	148	--	--	--	--	--	--	--	6.0	--	--	--	15	105	--
1140	5001	3	98	8 C	7.4	160								.17 11						
02/27/69	5006		11.2	32 F	--	196	--	--	--	--	--	--	--	16	--	--	--	16	131	--
1105	5001	3	97	9 C	7.5	220								.45 22						
03/28/69	5006		10.5	59 F	7.4	225	16	8.9	18	1.6	0.0	--	19	23	--	--	--	15	145	77
1125	5001	3	105	15 C	7.4	230	.80	.73	.78	.04			.40	.65						77
							35	32	34	1			17	28						
05/07/69	5006		9.5	63 F	7.8	154	--	--	--	--	--	--	--	15	--	--	--	16	--	--
0755	5001	3	99	17 C	7.6	180								.42 27						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TOS SUM	TH NCH
			EO B 804.4 156.2					HONKER BAY NEAR WHEELER POINT								CONTINUED					
06/10/69	5006		9.1	66	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1505	5001		99	19	C	7.6	90														
07/22/69	5006		8.1	72	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1135	5001		93	22	C	7.9	1000														
08/19/69	5006		8.5	68	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0935	5001		94	20	C	7.6	2800														
09/17/69	5006		8.9	66	F	--	310	--	--	--	--	--	--	--	53	--	--	--	14	196	--
0920	5001		97	19	C	7.7	400								1.49						
															48						
			EO B 807.0 202.3					GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH													
10/28/68	5006		9.0	63	F	--	15800	--	--	--	--	--	--	--	5400	--	--	--	--	11329	--
1000	5001	3	94	17	C	8.1	13000								152.28						
															96						
11/26/68	5050			--		8.1	11100	70	248	1850	60	0.0	97	507	3280	3.3	--	1.1	12	6900	1195
0900	5050							3.49	20.39	80.48	1.54		1.59	10.55	92.50	.05				6079	1115
								3	19	76	1		2	10	88						
11/26/68	5006		9.4	52.7	F	--	10900	--	--	--	--	--	--	--	3600	--	--	--	14	6474	--
0905	5001	3	86	11.5	C	7.7	16000								101.52						
															93						
12/17/68	5006		10.1	32	F	--	9900	48	204	1600	63	--	95	330	3000	--	--	0.8	16	5470	957
1230	5001	3	85	8	C	7.7	10000	2.40	16.77	69.60	1.61		1.56	6.86	84.60					5308	880
								3	19	77	2		2	7	91						
01/29/69	5006		11.6	32	F	--	138	--	--	--	--	--	--	--	5.0	--	--	--	15	97	--
1030	5001	3	98	8	C	7.4	150								.14						
															10						
02/27/69	5006		11.4	32	F	--	149	--	--	--	--	--	--	--	11	--	--	--	16	122	--
1010	5001	3	99	9	C	7.4	200								.31						
															20						
03/28/69	5006		10.4	59	F	7.5	243	16	9.1	20	1.8	0.0	--	14	28	--	--	--	15	157	78
1025	5001	3	104	15	C	7.5	250	.80	.75	.87	.05			.29	.79						78
								32	30	35	2			11	32						
05/07/69	5006		9.7	51.9	F	7.6	784	--	--	--	--	--	--	--	210	--	--	--	19	465	--
0705	5001	3	88	11.1	C	7.6	900								5.92						
															75						
06/11/69	5006		9.0	66	F	7.5	123	--	--	--	--	--	--	--	--	--	--	--	14	106	--
1525	5001	3	98	19	C	7.5	180														
07/23/69	5006		8.6	70	F	--	5215	--	--	--	--	--	--	--	1950	--	--	--	8.0	3480	--
1215	5001	3	97	21	C	8.0	6000								54.99						
															105						
08/20/69	5006		9.4	70	F	--	4620	--	--	--	--	--	--	--	145	--	--	--	5.0	3170	--
1125	5001	3	106	21	C	8.1	5400								4.09						
															8						
09/18/69	5006		9.0	68	F	6.9	1140	17	28	180	10	0.0	--	50	310	--	--	--	12	675	158
1015	5001	3	100	20	C	7.9	1800	.85	2.30	7.83	.26			1.04	8.74						158
								7	20	68	2			9	76						
			EO S 809.2 205.3					CORDELIA SLOUGH AT CYGNUS													
10/01/68		6.16		63	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1230	5001	3		17	C		9500														
10/09/68				61	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1305	5001	3		16	C		600														
10/16/68				59	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1130	5001	3		15	C		9000														
10/31/68	5006			--		--	12250	95	281	2200	74	0.0	118	640	4100	--	--	--	1.2	8373	1392
1245	5001	3					12200	4.74	23.10	95.70	1.89		1.94	13.31	115.62					7449	1296
								4	18	76	2		1	10	88						
11/15/68				--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1015	5001	3					9000														
12/16/68			9.7	32	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1030	5001	3	80	7	C	7.5	9500														
02/12/69	5006		8.5	32	F	7.0	1745	26	40	230	13	0.0	88	102	396	--	--	--	17	886	230
1015	5001	3	74	9	C	7.1		1.30	3.29	10.01	.33		1.44	2.12	11.17					867	158
								9	22	67	2		10	14	76						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.M. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
							EO S 809.2 205.3 CORDELIA SLOUGH AT CYGNUS												CONTINUED	
03/14/69	5006	7.20	9.2	52 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1010	5001	3	84	11 C	6.8	1050														
04/11/69	5006	7.02	8.7	61 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0945	5001	3	89	16 C	7.4	1080														
05/12/69	5006	5.00	6.8	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1035	5001	3	74	19 C	7.2	2000														
06/12/69	5006	4.27	5.5	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1145	5001	3	60	19 C	7.1	1600														
07/08/69	5006	6.00	7.1	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1120	5001	3	82	22 C	7.4	800														
08/05/69	5006	5.70	7.4	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1030	5001	3	85	22 C	7.4	5000														
09/03/69	5006	6.25	6.7	73 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0945	5001	3	79	23 C	7.5	4000														
							EO S 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND													
10/16/68				63 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1415	5001	3		17 C		5800														
10/22/68				61 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1405	5001	3		16 C		8000														
10/30/68	5006	6.00	8.2	59 F	--	9200	55	217	1600	54	0.0	141	480	2900	--	--	--	6.6	5918	1030
1215	5001	3	82	15 C	7.7	9200	2.74	17.84	69.60	1.38		2.31	9.98	81.78					5382	915
							3	19	76	2		2	11	87						
11/14/68				55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1140	5001	3		13 C		11000														
12/16/68			8.9	32 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1350	5001	3	77	9 C	7.4	10000														
03/14/69	5006		8.9	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1430	5001	3	85	13 C	7.7	1380														
04/24/69	5006		8.2	59 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1330	5001	2	82	15 C	7.5	1600														
05/12/69	5006	3.00	8.7	64 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0230	5001	3	93	18 C	7.5	1100														
06/12/69	5006		7.4	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1435	5001	3	80	19 C	7.3	750														
08/05/69	5006		7.9	77 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1500	5001	2	97	25 C	7.6	3500														
09/03/69	5006	2.50	7.1	73 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1405	5001	3	84	23 C	7.6	4600														
							EO S 811.0 204.8 CHADBOURNE SLOUGH AT CHADBOURNE ROAD													
10/01/68		8.65		66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1355	5001	3		19 C		8000														
10/09/68				54 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1145	5001	3		12 C		1900														
10/16/68				59 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1325	5001	3		15 C		3500														
10/31/68	5006		7.8	63 F	--	8800	74	228	1600	50	0.0	140	480	2900	--	--	--	4.0	5887	1125
1430	5001	3	81	17 C	7.4	8500	3.71	18.75	69.60	1.28		2.30	9.98	81.78					5405	1011
							4	20	75	1		2	11	87						
11/15/68				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1050	5001	3				9000														

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.M. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
EQ S 811.0 204.8 CHAUBOURNE SLOUGH AT CHAUBOURNE ROAD CONTINUED																				
12/16/68			9.1	32 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1155	5001	3	75	7 C	7.4	10000														
01/27/69	5006	10.23	6.1	31.9F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1135	5001	3	50	6.5C	7.4	1150														
02/12/69	5006		10.0	52 F	7.4	625	28	21	55	4.0	0.0	99	76	85	--	--	--	20	346	157
1230	5001	3	91	11 C	7.3	650	1.40	1.73	2.39	.10		1.62	1.58	2.40					338	76
							25	31	43	2		29	28	43						
03/14/69	5006	7.55	8.8	54 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1145	5001	3	82	12 C	6.8	1200														
04/11/69	5006	8.90	8.3	63 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1110	5001	3	86	17 C	7.4	1400														
05/12/69	5006	8.90	8.3	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1245	5001	3	90	19 C	7.4	875														
06/12/69	5006	8.00	6.4	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1315	5001	3	70	19 C	7.5	1000														
07/08/69	5006	8.30	6.8	72 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1250	5001	3	78	22 C	7.6	800														
08/05/69	5006	7.00	6.9	75 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1300	5001	3	83	24 C	7.4	3400														
09/03/69	5006	8.38	6.8	73 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1150	5001	3	80	23 C	7.6	4500														
EQ S 811.2 158.2 MONTEZUMA SLOUGH NEAR BELOONS LANDING																				
10/03/68	5050			--	--	12900	--	--	--	--	--	--	--	4670	--	--	--	--	7040	--
1530	5050													131.69						
														102						
10/10/68	5050			--	--	12200	--	--	--	--	--	--	--	3940	--	--	--	--	7320	--
1530	5050													111.11						
														91						
10/17/68	5050			--	--	11900	--	--	--	--	--	--	--	3830	--	--	--	--	7030	--
1500	5050													108.01						
														90						
10/25/68	5050			--	--	11900	--	--	--	--	--	--	--	3740	--	--	--	--	7140	--
1405	5050													105.47						
														88						
10/31/68	5050			--	--	12100	--	--	--	--	--	--	--	3930	--	--	--	--	6930	--
1635	5050													110.83						
														91						
11/07/68	5050			--	--	12200	--	--	--	--	--	--	--	3940	--	--	--	--	7430	--
1500	5050													111.11						
														91						
11/14/68	5050			--	--	11900	--	--	--	--	--	--	--	3900	--	--	--	--	7240	--
1500	5050													109.98						
														92						
11/21/68	5050			--	--	11500	--	--	--	--	--	--	--	3790	--	--	--	--	7220	--
1600	5050													106.88						
														92						
11/29/68	5050			--	--	11500	--	--	--	--	--	--	--	3640	--	--	--	--	6730	--
1300	5050													102.65						
														89						
12/05/68	5050			--	--	11000	--	--	--	--	--	--	--	3390	--	--	--	--	6620	--
1300	5050													95.60						
														86						
12/12/68	5050			--	--	10900	--	--	--	--	--	--	--	3480	--	--	--	--	6700	--
1400	5050													98.14						
														90						
12/19/68	5050			--	--	7010	--	--	--	--	--	--	--	2070	--	--	--	--	4130	--
1430	5050													58.37						
														83						
12/30/68	5050			--	--	7570	--	--	--	--	--	--	--	2260	--	--	--	--	4330	--
1400	5050													63.73						
														84						
01/16/69	5050			--	--	4850	--	--	--	--	--	--	--	1440	--	--	--	--	2610	--
1355	5050													40.61						
														83						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER	
			EO S 811.2 158.2				MONTEZUMA SLOUGH NEAR BELOONS LANDING								CONTINUED					
02/04/69	5050			49 F	--	879	--	--	--	--	--	--	--	202	--	--	--	--	480	--
1230	5050			9 C										5.70						
														64						
02/18/69	5050			49 F	--	675	--	--	--	--	--	--	--	139	--	--	--	--	374	--
1525	5050			9 C										3.92						
03/06/69	5050			54 F	--	710	--	--	--	--	--	--	--	136	--	--	--	--	388	--
1650	5050			12 C										3.84						
														54						
03/21/69	5050			49 F	--	1360	--	--	--	--	--	--	--	300	--	--	--	--	792	--
1826	5050			9 C										8.46						
														62						
04/28/69	5050			62 F	--	585	--	--	--	--	--	--	--	117	--	--	--	--	320	--
1200	5050			17 C										3.30						
														56						
06/02/69	5050			--	--	330	--	--	--	--	--	--	--	58	--	--	--	--	192	--
1800	5050													1.64						
														49						
06/23/69	5050			--	--	422	--	--	--	--	--	--	--	83	--	--	--	--	251	--
1715	5050													2.34						
														55						
07/03/69	5050			--	--	572	--	--	--	--	--	--	--	119	--	--	--	--	333	--
0845	5050													3.36						
														58						
07/17/69	5050			--	--	869	--	--	--	--	--	--	--	196	--	--	--	--	484	--
0900	5050													5.53						
														63						
08/01/69	5050			--	--	1750	--	--	--	--	--	--	--	444	--	--	--	--	990	--
1415	5050													12.52						
														71						
08/19/69	5050			--	--	3270	--	--	--	--	--	--	--	914	--	--	--	--	1930	--
1510	5050													25.77						
														78						
09/02/69	5050			--	--	4050	--	--	--	--	--	--	--	1150	--	--	--	--	2430	--
0725	5050													32.43						
														80						
09/15/69	5050			--	--	2860	--	--	--	--	--	--	--	784	--	--	--	--	1600	--
0820	5050													22.11						
														77						
			EO S 811.2 158.5				MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD													
10/01/68				70 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1420	5001	3		21 C		9500														
10/16/68				63 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1400	5001	3		17 C		10000														
10/31/68	5006			--	--	11000	95	262	2100	66	0.0	122	560	3600	--	--	--	22	7543	1316
1445	5001	3				11000	4.74	21.54	91.35	1.69		2.00	11.65	101.52					6765	1217
							4	18	77	1		2	10	88						
11/15/68				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1115	5001	3				10000														
12/16/68			9.2	32 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1255	5001	3	78	8 C	7.4	10500														
01/27/69	5006		10.4	32 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1210	5001	3	86	7 C	7.1	550														
02/12/69	5006		10.0	32 F	7.1	1080	22	28	130	7.0	0.0	76	74	234	--	--	--	16	568	170
1420	5001	3	87	9 C	7.3	1090	1.10	2.30	5.66	.18		1.25	1.54	6.60					548	108
							12	25	61	2		13	16	70						
03/14/69	5006		9.9	52 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1340	5001	3	90	11 C	7.0	1100														
04/11/69	5006		8.9	63 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1300	5001	3	93	17 C	7.2	900														
05/12/69	5006		8.8	66 F	7.1	630	13	16	89	4.8	0.0	70	40	142	--	--	--	10	340	99
1345	5001	3	96	19 C	7.3	700	.65	1.32	3.87	.12		1.15	.83	4.00					349	42
							11	22	65	2		19	14	67						
06/12/69	5006		8.4	66 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1410	5001	3	91	19 C	7.4	475														

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER TDS SUM	TH NCH
			EO S 811.2 158.5					MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD								CONTINUED					
07/08/69	5006		6.8	73	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1410	5001	3	80	23	C	7.5	610														
08/05/69	5006		6.9	75	F	7.3	2740	30	58	450	24	0.0	75	130	800	--	--	0.5	8.0	1560	316
1420	5001	3	83	24	C	7.4	3200	1.50	4.77	19.58	.61		1.23	2.70	22.56					1537	255
								6	18	74	2		5	10	85						
09/03/69	5006		7.0	75	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1330	5001	3	84	24	C	7.5	4400														
			EO S 811.5 207.2					CORDELIA SLOUGH AT UPPER END NEAR CORDELIA													
10/01/68				61	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1310	5001	3		16	C		410														
10/16/68				54	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1255	5001	3		12	C		450														
10/31/68	5006			--		--	1700	32	56	240	5.0	0.0	217	90	410	--	--	--	11	1031	313
1400	5001	3					1700	1.61	4.65	10.44	.13		3.56	1.87	11.56					952	135
								10	28	62	1		21	11	68						
04/11/69	5006	7.02	7.1	63	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1030	5001	3	74	17	C	7.5	1800														
05/12/69	5006		7.4	63	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1135	5001	3	77	17	C	7.6	700														
06/12/69	5006		7.0	66	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1230	5001	2	76	19	C	7.6	460														
07/08/69	5006		6.6	72	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1210	5001	3	76	22	C	7.6	650														
08/05/69	5006		5.0	73	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1145	5001	3	59	23	C	7.4	1200														
09/03/69	5006		6.0	70	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1055	5001	3	68	21	C	7.6	2000														
			EO S 812.7 207.8					GREEN VALLEY CREEK AT CORDELIA													
12/16/68			7.4	32	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1100	5001	3	61	7	C	7.1	1450														
01/27/69			11.4	32	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1035	5001	3	96	8	C	7.2	170														
02/12/69	5006		11.0	32	F	7.2	172	9.5	6.5	12	3.0	0.0	58	20	9.0	--	--	0.5	34	125	50
1110	5001	3	95	9	C	7.3		.47	.53	.52	.08		.95	.42	.25					123	3
								29	33	33	5		59	26	15						
03/14/69			12.2	50.9	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1105	5001	3	110	10.5	C	6.7	260														
			EO S 813.6 201.2					MILL SLOUGH AT GRIZZLY ISLAND ROAD													
10/01/68				63	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1430	5001	3		17	C		675														
10/16/68				59	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1350	5001	3		15	C		550														
10/22/68				59	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1450	5001	3		15	C		950														
10/30/68	5006		8.3	59	F	--	1000	21	38	125	4.0	0.0	186	80	205	--	--	--	10	621	213
1355	5001	3	83	15	C	8.1	1000	1.09	3.18	5.44	.10		3.05	1.66	5.78					576	61
								11	32	55	1		29	16	55						
11/15/68				--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1125	5001	3					3600														
12/16/68			7.3	32	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1235	5001	3	62	8	C	7.4	7000														

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.M. DEPTH	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
								MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER												MILLIGRAMS PER LITER	
								MILLIEQUIVALENTS PER LITER													
								PERCENT REACTANCE VALUE													
			E0 5 813.6 201.2					HILL SLOUGH AT GRIZZLY ISLAND ROAD													CONTINUED
01/27/69	5006		7.8	32	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1150	5001	3	66	8	C	8.2	520														
02/12/69	5006		7.6	52	F	7.2	454	19	9.5	62	5.0	0.0	--	30	87	--	--	1.0	9.0	268	86
1325	5001	3	69	11	C	7.3	560	.95	.78	2.70	.13			.62	2.45						86
								20	17	59	2			13	53						
03/14/69	5006		8.1	55	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1315	5001	3	77	13	C	7.4	1850														
04/11/69	5006		9.5	64	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1230	5001	3	101	18	C	7.8	2400														
05/12/69	5006		8.4	64	F	7.5	2213	43	55	356	15	0.0	190	160	540	--	--	--	10	1380	334
0115	5001	3	89	18	C	7.8	2300	2.15	4.52	15.49	.38		3.12	3.33	15.23					1272	178
								10	20	69	2		14	15	70						
06/12/69	5006		6.6	66	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1340	5001		72	19	C	7.6	2000														
07/08/69	5006	4.00	7.2	72	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1335	5001	3	83	22	C	7.8	1600														
08/05/69	5006		6.8	75	F	7.5	2270	40	54	365	19	0.0	174	130	590	--	--	0.7	11	1340	322
1345	5001	3	82	24	C	7.5	2600	2.00	4.44	15.88	.49		2.85	2.70	16.64					1295	180
								9	19	70	2		13	12	75						
09/03/69	5006	4.00	6.2	72	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1250	5001	3	72	22	C	7.6	4100														

DATE TIME	LAB SAMPLER	G.M. D	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
								MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER												MILLIGRAMS PER LITER	
								MILLIEQUIVALENTS PER LITER													
								PERCENT REACTANCE VALUE													
			E3 1100.50					NAPA RIVER AT DUTTON LANDING													
10/15/68	5050		8.2	61	F	--	30200	--	--	--	--	--	--	--	10900	--	--	--	--	20900	--
0945	5050		84	16	C	7.6									307.38						
															101						
12/09/68	5050		9.1	51	F	--	24400	--	--	--	--	--	--	--	8910	--	--	--	--	16500	--
1120	5050		82	11	C	7.7									251.26						
															102						
02/05/69	5050		10.4	50	F	--	970	--	--	--	--	--	--	--	218	--	--	--	--	524	--
1150	5050		92	10	C	7.2	1150								6.15						
															63						
04/07/69	5050		8.3	61	F	--	2530	--	--	--	--	--	--	--	650	--	--	--	--	1420	--
1200	5050		85	16	C	8.0	3000								18.33						
															72						
06/04/69	5050		6.4	70	F	--	6520	--	--	--	--	--	--	--	1940	--	--	--	--	3710	--
1225	5050		72	21	C	8.2	6500								54.71						
															83						
08/13/69	5050		6.7	73	F	--	20700	--	--	--	--	--	--	--	7530	--	--	--	--	13800	--
1105	5050		78	23	C	7.5	20500								212.35						
															102						
			E3 1500.00					NAPA RIVER NEAR ST. HELENA													
04/23/69	5050	1.45	9.7	59	F	8.1	216	17	9.6	14	2.4	0.0	95	13	10	3.3	--	0.3	--	160	82
1150	5050		96	15	C	7.2	210	.85	.79	.61	.06		1.56	.27	.28	.05				116	4
								37	34	26	3		72	13	13	2					
09/15/69	5050	.74	5.3	61	F	7.8	334	52	3.7	16	--	0.0	173	--	9.9	--	--	--	--	--	145
0700	5050	5.0	54	16	C	7.0	320	2.59	.30	.70			2.84		.28						3
								77	8	20			85		8						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. O	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
			E5 1150.00				ALAMEDA CREEK NEAR NILES													
10/16/68	5050		10.4	58 F	8.0	509	--	--	50	--	0.0	129	--	68	--	--	0.2	--	--	131
0900	5050		102	14 C	8.0				2.18			2.12		1.92						25
									42			41		37						
11/07/68	5050	3.04	10.1	57 F	8.0	529	--	--	54	--	0.0	126	--	71	--	--	0.3	--	--	132
1115	5050		98	14 C	7.8	520			2.35			2.07		2.00						29
									44			39		37						
12/10/68	5050	2.66	12.2	55 F	8.3	686	36	19	68	--	0.0	152	--	88	140	--	0.4	--	--	172
1345	5050		115	13 C	7.8	660	1.80	1.64	2.96			2.49		2.48	2.25					48
							26	23	43			36		36	32					
01/08/69	5050	5.90	11.4	46 F	7.7	619	32	21	59	--	0.0	127	--	72	--	--	0.5	--	--	168
1027	5050		96	8 C	7.8		1.60	1.76	2.57			2.08		2.03						64
							25	28	41			33		32						
02/06/69	5050	6.03	11.1	47 F	8.1	344	27	10	27	--	0.0	130	--	23	5.1	--	0.3	--	--	111
1230	5050		94	8 C	8.2	295	1.35	.87	1.17			2.13		.65	.08					5
							39	25	34			61		18	2					
03/12/69	5050	4.10	11.6	56 F	8.3	492	40	20	29	--	0.0	162	--	31	--	--	0.3	--	--	183
1115	5050	250	103	10 C	7.9	480	2.00	1.66	1.26			2.66		.87						50
							40	33	25			54		17						
04/08/69	5050	3.67	12.2	60 F	8.2	517	34	21	37	1.7	0.0	178	52	38	3.7	--	0.3	--	290	171
1330	5050		123	16 C	8.5	500	1.70	1.73	1.61	.04		2.92	1.08	1.07	.06				275	25
							33	34	32	1		57	21	21	1					
05/01/69	5050	2.95	11.4	61 F	8.3	861	66	31	69	3.1	0.0	273	105	74	9.6	--	1.2	--	510	293
1030	5050	50	116	16 C	8.1	835	3.29	2.55	3.00	.08		4.48	2.18	2.09	.15				493	69
							37	29	34	1		50	24	23	2					
06/04/69	5050	2.94	8.1	66 F	8.3	720	54	29	60	--	0.0	235	--	65	6.8	--	0.5	--	--	258
0645	5050		88	19 C	8.4	750	2.69	2.46	2.61			3.85		1.83	.11					66
							37	34	36			53		25	1					
08/13/69	5050	2.91	8.0	66 F	8.4	667	46	28	53	--	8.0	221	--	52	7.7	--	0.5	--	--	236
0700	5050		87	19 C	8.1	490	2.40	2.32	2.31		.27	3.62		1.47	.12					42
							35	34	34		4	54		22	1					
			E5 1400.00				ARROYO DEL VALLE NEAR LIVERMORE													
04/25/69	5050	2.44		57 F	8.3	304	29	13	14	1.8	0.0	132	31	10	1.2	--	0.8	--	181	128
1130	5050			14 C	8.1	280	1.45	1.07	.61	.05		2.16	.64	.28	.02				165	20
							46	34	19	2		70	21	9	1					
			E6 4250.00				COYOTE CREEK NEAR MADRONE													
04/28/69	5050	2.01	10.7	63 F	8.2	295	29	14	12	1.6	0.0	135	29	8.4	2.0	--	0.5	--	184	130
1315	5050		112	17 C	8.0	300	1.45	1.15	.52	.04		2.21	.60	.24	.03				163	20
							46	36	16	1		72	19	8	1					
			E6 5250.00				LOS GATOS CREEK AT LOS GATOS													
05/01/69	5050		11.4	54 F	8.0	264	28	12	9.4	1.1	0.0	122	28	6.2	1.1	--	0.3	--	164	120
0915	5050		107	12 C	7.8	260	1.40	.99	.41	.03		2.00	.58	.17	.02				146	20
							49	35	14	1		72	21	6	1					
09/26/69	5050	4.44	9.0	71 F	8.1	327	36	13	13	--	0.0	145	--	8.5	--	--	--	--	--	147
1130	5050		103	22 C	7.8	300	1.80	1.14	.57			2.38		.24						28
							55	34	17			72		7						
			E8 4302.01				CORINDA LOS TRANCOS CR NEAR HALF MOON BAY													
03/07/69	5050			--	7.9	352	--	--	24	--	0.0	74	24	33	15	--	--	--	--	105
1130	5050				7.9				1.04			1.21	.50	.93	.24					45
									29			34	14	26	6					
			F8 2100.00				NAVARRO RIVER NEAR NAVARRO													
11/19/68	5050	4.38	11.9	57 F	8.5	274	--	--	14	--	5.0	138	--	8.5	--	--	0.2	--	--	118
1450	5050	67	115	14 C	7.7				.61		.17	2.26		.24						0
									22		6	82		8						
01/23/69	5050	11.39	11.7	47 F	7.9	117	--	--	6.7	--	0.0	56	--	5.2	--	--	0.0	--	--	46
0920	5050	3470	100	8 C	7.1				.29			.92		.15						0
									24			78		12						
03/05/69	5050	8.42	11.8	48 F	7.2	139	--	--	7.0	--	0.0	69	--	4.9	--	--	0.0	--	--	66
1030	5050	1610	102	9 C	7.4				.30			1.13		.14						10
									21			81		10						
05/15/69	5050	4.42	10.3	60 F	7.9	240	24	9.7	10	1.7	0.0	122	12	8.3	0.0	--	0.2	--	123	100
0845	5050	85	104	16 C	7.4		1.20	.80	.44	.04		2.00	.25	.23					126	0
							48	32	18	2		81	10	9						
07/17/69	5050	3.77	8.2	65 F	8.1	258	--	--	13	--	0.0	136	--	8.3	--	--	0.1	--	--	108
0900	5050	17	88	18 C	7.3				.57			2.23		.23						0
									22			86		8						
09/11/69	5050	3.00	8.5	63 F	7.6	260	27	11	12	0.1	0.0	141	8.7	8.9	0.0	--	0.1	--	134	114
0920	5050	6.8	69	17 C	7.1		1.35	.90	.52			2.31	.18	.25					137	0
							49	32	19			84	7	9						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.M. Q	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER TDS SUM	TH NCH
			F8 2720.00					BIG RIVER NEAR MOUTH													
11/19/68	5050		11.4	55	F	8.4	230	--	--	13	--	2.0	117	--	7.7	--	--	0.4	--	--	99
1605	5050	750	108	13	C	7.5				.57		.07	1.92		.22						0
										24		3	83		9						
01/23/69	5050		12.1	47	F	7.7	96	--	--	6.0	--	0.0	44	--	5.0	--	--	0.0	--	--	37
1105	5050	1000	103	8	C	7.1				.26			.72		.14						1
										27			75		14						
03/05/69	5050	9.66	11.9	47	F	7.1	109	--	--	5.8	--	0.0	54	--	4.8	--	--	0.0	--	--	42
0925	5050	650	101	8	C	7.9				.25			.89		.14						0
										22			81		12						
05/15/69	5050		10.4	58	F	7.8	188	18	7.0	9.2	1.5	0.0	93	7.7	7.1	0.0	--	0.2	--	104	74
0725	5050	50	102	14	C	7.3		.90	.58	.40	.04		1.53	.16	.20					96	0
								47	30	21	2		81	8	11						
07/17/69	5050	6.63	8.1	62	F	8.1	202	--	--	12	--	0.0	100	--	7.3	--	--	0.2	--	--	83
0700	5050	25	84	17	C	7.3				.52			1.64		.21						1
										25			81		10						
09/11/69	5050	6.55	8.5	66	F	7.8	202	20	7.3	11	0.1	0.0	106	5.3	7.7	0.0	--	0.2	--	99	80
0800	5050	20	86	16	C	7.1		1.00	.60	.48			1.74	.11	.22					104	0
								48	29	23			84	5	11						
			F8 3200.00					NOYO RIVER NEAR FORT BRAGG													
11/20/68	5050		10.4	53	F	8.3	182	--	--	11	--	0.0	90	--	8.0	--	--	0.1	--	--	74
0850	5050	100	96	12	C	7.3				.48			1.48		.23						0
										26			81		12						
01/23/69	5050	8.71	12.0	47	F	7.5	81	--	--	5.6	--	0.0	35	--	5.1	--	--	0.0	--	--	28
1155	5050	1680	102	8	C	7.0				.24			.57		.14						0
										29			70		17						
03/05/69	5050	5.90	12.1	46	F	7.0	92	--	--	5.5	--	0.0	43	--	4.8	--	--	0.0	--	--	35
0800	5050	670	101	8	C	7.1				.24			.71		.14						0
										26			77		15						
05/15/69	5050	3.53	10.6	56	F	7.6	145	14	3.6	8.0	1.0	0.0	68	5.3	8.6	0.0	--	0.1	--	78	52
0630	5050	50	102	13	C	7.3		.70	.30	.35	.03		1.12	.11	.24					74	0
								51	22	25	2		76	7	16						
07/16/69	5050	2.65	9.9	68	F	7.9	162	--	--	10	--	0.0	82	--	7.8	--	--	0.0	--	--	63
1720	5050	13	110	20	C	7.3				.44			1.34		.22						0
										27			82		13						
09/11/69	5050	2.59	8.2	58	F	7.6	152	13	5.5	9.7	1.2	0.0	74	2.6	7.9	0.0	--	0.0	--	88	55
0710	5050	8.4	81	14	C	7.1		.65	.45	.42	.03		1.21	.05	.22					76	0
								42	29	27	2		82	3	15						
			F9 1080.50					RUSSIAN RIVER AT GUERNEVILLE													
11/06/68	5050	4.14	8.3	57	F	8.1	327	--	--	15	--	0.0	154	--	13	--	--	0.5	--	--	140
0830	5050		81	14	C	7.4	315			.65			2.53		.37						14
										19			77		11						
01/07/69	5050	6.82	10.3	50	F	7.6	271	23	14	8.9	--	0.0	135	--	8.0	--	--	0.3	--	--	116
1030	5050		91	10	C	7.4		1.15	1.17	.39			2.21		.23						6
								42	43	14			81		8						
03/13/69	5050	9.70	10.6	48	F	7.9	249	23	14	7.0	--	0.0	125	--	4.8	--	--	0.1	--	--	119
0845	5050	500	91	9	C	7.4	300	1.15	1.23	.30			2.05		.14						17
								46	49	12			82		5						
04/24/69	5050	7.80	9.9	58	F	8.2	247	24	12	8.8	1.2	0.0	126	15	5.5	2.8	--	0.6	--	153	108
1200	5050		97	14	C	7.8	245	1.20	.99	.38	.03		2.07	.31	.16	.05				132	5
								46	38	15	1		80	12	6	2					
07/03/69	5050	2.28	7.6	74	F	8.3	292	26	16	11	--	0.0	159	--	7.6	--	--	--	--	--	134
0930	5050		90	23	C	7.7	270	1.30	1.38	.48			2.61		.21						4
								44	47	16			89		7						
09/16/69	5050	2.89	8.8	64	F	7.9	283	27	16	11	--	0.0	153	--	7.5	--	--	--	--	--	136
0630	5050		93	18	C	7.4	275	1.35	1.37	.48			2.51		.21						11
								47	48	16			88		7						
			F9 1500.00					RUSSIAN RIVER NEAR HEALDSBURG													
04/24/69	5050	3.10	10.5	57	F	8.2	235	22	13	6.6	0.9	0.0	122	12	3.6	1.4	--	0.9	--	129	108
1100	5050		102	14	C	7.8	210	1.10	1.07	.29	.02		2.00	.25	.10	.02				120	8
								44	43	12	1		84	11	4	1					
09/15/69	5050	1.18	8.8	70	F	8.1	244	28	12	7.4	--	0.0	140	--	3.7	--	--	--	--	--	120
1340	5050		100	21	C	7.6	225	1.40	1.00	.32			2.30		.10						5
								57	40	13			94		4						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
			F9 1765.00					RUSSIAN RIVER NEAR HOPLAND													
04/23/69	5050	6.69	10.4	55	F	8.3	182	18	9.0	7.2	0.7	0.0	97	8.7	3.6	0.1	--	1.3	--	108	82
1550	5050		98	13	C	7.4	190	.90	.74	.31	.02		1.59	.18	.10					96	3
								46	38	16	1		85	10	5						
09/15/69	5050	5.74	8.5	64	F	7.9	178	21	7.1	5.9	--	0.0	100	--	2.7	--	--	--	--	--	82
0915	5050		90	18	C	7.2	175	1.05	.59	.26			1.64		.08						0
								58	33	14			92		4						
			F9 4900.00					RUSSIAN RIVER, E.F., AT POTTER VALLEY POWERHOUSE													
04/24/69	5050	3.40	11.2	51	F	8.1	132	16	5.4	4.6	0.8	0.0	71	5.9	2.4	0.4	--	1.2	--	92	62
0830	5050		101	11	C	7.5	130	.80	.44	.20	.02		1.16	.12	.07	.01				71	4
								55	30	14	1		85	9	5	1					
09/15/69	5050	3.50	8.5	66	F	8.0	151	20	4.8	4.2	--	0.0	81	--	2.3	--	--	--	--	--	70
1040	5050		92	19	C	7.4	140	1.00	.40	.18			1.33		.06						4
								66	26	11			88		3						

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Abbreviations and column headings used in the following table include:

Turbidity - The values are shown in Hellige turbidity units unless otherwise indicated.

MBAS - Methylene blue active substances are a measure of detergents ABS and LAS.

Mg/L - Milligrams per liter.

Ug/L - Micrograms per liter.

Ft. - Feet.

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

CENTRAL COASTAL AREA

Station Number	Station	Date	Turbidity Units	Other Constituents	
D0 1180.01	SAN LORENZO RIVER AT PARADISE PARK	9-26-69	3		
D0 1200.00	SAN LORENZO RIVER AT BIG TREES	11-07-68	6		
		1-08-69	3		
		3-12-69	45	Secchi Disk	1.1 Ft.
		5-01-69		Secchi Disk	>1.2 Ft.
		7-02-69	9		
		9-26-69	2		
D0 3100.00	SOQUEL CREEK AT SOQUEL	4-29-69		Secchi Disk	>1.5 Ft.
		9-26-69	3		
D1 1250.00	PAJARO RIVER AT CHITTENDEN	5-14-69		Aluminum	0.00 Mg/L
				Arsenic	0.00 Mg/L
				Copper	0.01 Mg/L
				Iron	1.1 Mg/L
				Manganese	0.03 Mg/L
				Lead	0.00 Mg/L
				Zinc	0.00 Mg/L
		9-04-69		Aluminum	<3.3 Ug/L
				Beryllium	<1.3 Ug/L
				Bismuth	<0.7 Ug/L
				Cadmium	<3.3 Ug/L
				Chromium	<3.3 Ug/L
				Cobalt	<3.3 Ug/L
				Copper	<3.3 Ug/L
				Gallium	<13 Ug/L
				Germanium	<0.7 Ug/L
				Iron	8.0 Ug/L
				Lead	<3.3 Ug/L
				Manganese	<3.3 Ug/L
				Molybdenum	<0.7 Ug/L
				Nickel	<0.7 Ug/L
				Titanium	<1.3 Ug/L
				Vanadium	5.3 Ug/L
				Zinc	<13 Ug/L
D2 1220.00	SALINAS RIVER NEAR SPRECKELS	5-14-69		Aluminum	0.00 Mg/L
				Arsenic	0.00 Mg/L
				Copper	0.00 Mg/L
				Iron	4.1 Mg/L
				Lead	0.00 Mg/L
				Manganese	0.00 Mg/L
				Zinc	0.00 Mg/L
D2 1325.10	SALINAS RIVER NEAR GONZALES	5-14-69		Aluminum	0.00 Mg/L
				Arsenic	0.00 Mg/L
				Copper	0.00 Mg/L
				Iron	2.9 Mg/L
				Lead	0.00 Mg/L
				Manganese	0.01 Mg/L
				Zinc	0.00 Mg/L
		9-03-69		Aluminum	<3.3 Ug/L
				Beryllium	<1.3 Ug/L
				Bismuth	<0.7 Ug/L
				Cadmium	<3.3 Ug/L
				Chromium	<3.3 Ug/L
				Cobalt	<3.3 Ug/L
				Copper	<3.3 Ug/L
				Gallium	<13 Ug/L
				Germanium	<0.7 Ug/L
				Iron	4.3 Ug/L
				Lead	<3.3 Ug/L
				Manganese	<3.3 Ug/L
				Molybdenum	<0.7 Ug/L
				Nickel	<0.7 Ug/L
				Titanium	<1.3 Ug/L
				Vanadium	1.6 Ug/L
				Zinc	<13 Ug/L
D2 1475.00	ARROYO SECO NEAR GREENFIELD	9-02-69		Aluminum	<3.3 Ug/L
				Beryllium	<1.3 Ug/L
				Bismuth	<0.7 Ug/L
				Cadmium	<3.3 Ug/L
				Chromium	<3.3 Ug/L
				Cobalt	<3.3 Ug/L
				Copper	<3.3 Ug/L
				Gallium	<13 Ug/L
				Germanium	<0.7 Ug/L
				Iron	8.0 Ug/L
				Manganese	<3.3 Ug/L
				Molybdenum	<0.7 Ug/L
				Nickel	<0.7 Ug/L
				Titanium	<1.3 Ug/L
				Vanadium	1.6 Ug/l
				Zinc	<13 Ug/L

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

CENTRAL COASTAL AREA

Station Number	Station	Date	Turbidity Units	Other Constituents		
D2 1850.00	SALINAS RIVER NEAR BRADLEY	9-02-69		Aluminum	<3.3	Ug/L
				Beryllium	<1.3	Ug/L
				Bismuth	<0.7	Ug/L
				Cadmium	<3.3	Ug/L
				Chromium	<3.3	Ug/L
				Cobalt	<3.3	Ug/L
				Copper	<3.3	Ug/L
				Gallium	<13	Ug/L
				Germanium	<0.7	Ug/L
				Iron	6.7	Ug/L
				Lead	<3.3	Ug/L
				Manganese	<3.3	Ug/L
				Molybdenum	<0.7	Ug/L
				Nickel	<0.7	Ug/L
				Titanium	<1.3	Ug/L
				Vanadium	1.7	Ug/L
				Zinc	<13	Ug/L
D4 1200.00	CARMEL RIVER AT ROBLES DEL RIO	1-15-69		Iron	0.73	Mg/L
				Manganese	0.00	Mg/L
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	9-16-69	7	Suspended Solids	9	Mg/L
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	10-15-68		Suspended Solids	17	Mg/L
				Secchi Disk	5.3	Ft.
		12-09-68		Suspended Solids	16	Mg/L
				Secchi Disk	3.0	Ft.
		2-05-69		Suspended Solids	24	Mg/L
				Secchi Disk	1.6	Ft.
		4-07-69		Suspended Solids	65	Mg/L
				Secchi Disk	1.0	Ft.
		6-04-69		Suspended Solids	26	Mg/L
				Secchi Disk	2.6	Ft.
		8-13-69		Suspended Solids	20	Mg/L
				Secchi Disk	2.8	Ft.
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	9-16-69	8	Suspended Solids	6	Mg/L
EO B 748.4 228.2	SAN FRANCISCO BAY AT FORT POINT	10-14-68		Suspended Solids	24	Mg/L
		12-10-68		Secchi Disk	4.2	Ft.
				Suspended Solids	14	Mg/L
		2-06-69		Secchi Disk	2.5	Ft.
				Suspended Solids	9.2	Mg/L
		4-08-69		Secchi Disk	4.3	Ft.
				Suspended Solids	16	Mg/L
		6-03-69		Secchi Disk	2.3	Ft.
				Suspended Solids	24	Mg/L
		8-12-69		Secchi Disk	6.9	Ft.
				Suspended Solids	23	Mg/L
EO B 748.9 228.6	SAN FRANCISCO BAY AT GOLDEN GATE BRIDGE	9-15-69		Suspended Solids	4	Mg/L
				MBAS	0.0	Mg/L
EO B 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	10-14-68		Secchi Disk	4.6	Ft.
				Suspended Solids	17	Mg/L
		12-09-68		Secchi Disk	3.7	Ft.
				Suspended Solids	7	Mg/L
		2-05-69		Secchi Disk	2.4	Ft.
				Suspended Solids	12	Mg/L
		4-07-69		Secchi Disk	2.0	Ft.
				Suspended Solids	19	Mg/L
		6-04-69		Secchi Disk	4.0	Ft.
				Suspended Solids	16	Mg/L
		8-13-69		Secchi Disk	6.0	Ft.
				Suspended Solids	6.2	Mg/L
EO B 757.7 225.6	SAN PABLO BAY AT POINT SAN PABLO	10-15-68		Secchi Disk	4.1	Ft.
				Suspended Solids	16	Mg/L
		12-10-68		Secchi Disk	1.4	Ft.
				Suspended Solids	88	Mg/L
		2-06-69		Secchi Disk	1.2	Ft.
				Suspended Solids	40	Mg/L
		4-08-69		Secchi Disk	0.9	Ft.
				Suspended Solids	58	Mg/L
		6-03-69		Secchi Disk	0.6	Ft.
				Suspended Solids	137	Mg/L
		8-12-69		Secchi Disk	2.0	Ft.
				Suspended Solids	26	Mg/L
EO B 757.7 226.2	SAN PABLO STRAIT WEST OF THE BROTHERS	9-16-69	4	Suspended Solids	9	Mg/L
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	10-30-68	5*	Secchi Disk	2.2	Ft.
		11-25-68	20*	Secchi Disk	1.2	Ft.

*Hach turbidity units.

TABLE D-3
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
CENTRAL COASTAL AREA

Station Number	Station	Date	Turbidity Units	Other Constituents	
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ (Continued)	12-18-68	15*	Secchi Disk	1.0 Ft.
				Cadmium	0.01 Mg/L
				Chromium	<0.05 Mg/L
				Copper	<0.5 Mg/L
				Iron	0.2 Mg/L
				Lead	<0.02 Mg/L
				Manganese	0.06 Mg/L
				Zinc	<0.5 Mg/L
		1-28-69	80*	Secchi Disk	0.5 Ft.
		2-26-69	65*	Secchi Disk	0.7 Ft.
		3-27-69	10*	Secchi Disk	1.3 Ft.
				Cadmium	<0.01 Mg/L
				Chromium	<0.05 Mg/L
				Copper	0.1 Mg/L
				Iron	0.2 Mg/L
				Lead	<0.01 Mg/L
				Manganese	<0.05 Mg/L
				Zinc	<0.1 Mg/L
		5-08-69	65*	Secchi Disk	0.7 Ft.
		6-11-69	50*	Secchi Disk	1.0 Ft.
				Cadmium	<0.01 Mg/L
				Chromium	<0.01 Mg/L
				Copper	0.1 Mg/L
				Iron	0.1 Mg/L
				Lead	<0.01 Mg/L
				Manganese	<0.05 Mg/L
				Zinc	<0.1 Mg/L
		7-23-69	13*	Secchi Disk	2.0 Ft.
		8-20-69	28*	Secchi Disk	0.8 Ft.
		9-18-69	32*	Secchi Disk	1.0 Ft.
				Cadmium	<0.01 Mg/L
				Chromium	<0.01 Mg/L
				Copper	<0.1 Mg/L
				Iron	<0.1 Mg/L
				Lead	<0.01 Mg/L
				Manganese	<0.05 Mg/L
				Zinc	<0.1 Mg/L
EO B 802.4 208.2	SUISUN BAY AT BENICIA (END OF PIER)	10-14-68		Secchi Disk	2.2 Ft.
				Suspended Solids	21 Mg/L
		12-10-68		Secchi Disk	1.6 Ft.
				Suspended Solids	20 Mg/L
		2-06-69		Secchi Disk	0.3 Ft.
				Suspended Solids	311 Mg/L
EO B 802.5 208.1	SUISUN BAY AT BENICIA (MIDDLE OF PIER)	4-08-69		Secchi Disk	0.3 Ft.
				Suspended Solids	303 Mg/L
		6-06-69		Secchi Disk	0.3 Ft.
				Suspended Solids	480 Mg/L
		8-12-69		Secchi Disk	0.6 Ft.
				Suspended Solids	216 Mg/L
EO B 802.8 155.0	SACRAMENTO RIVER AT CHIPPS ISLAND	10-18-68	25*	Secchi Disk	0.8 Ft.
		10-30-68	55*	Secchi Disk	0.8 Ft.
		11-25-68	35*	Secchi Disk	0.7 Ft.
		12-12-68	6*	Secchi Disk	0.7 Ft.
		12-18-68	25*	Secchi Disk	0.8 Ft.
				Cadmium	<0.01 Mg/L
				Chromium	<0.05 Mg/L
				Copper	<0.5 Mg/L
				Iron	0.2 Mg/L
				Lead	<0.02 Mg/L
				Manganese	0.07 Mg/L
				Zinc	<0.5 MMg/L
		1-28-69	160*	Secchi Disk	0.4 Ft.
		2-26-69	80*	Secchi Disk	0.8 Ft.
		3-27-69	20*	Secchi Disk	1.1 Ft.
				Cadmium	<0.01 Mg/L
				Chromium	<0.05 Mg/L
				Copper	<0.1 Mg/L
				Iron	0.2 Mg/L
				Lead	<0.01 Mg/L
				Manganese	<0.05 Mg/L
				Zinc	<0.1 Mg/L
		5-08-69	36*	Secchi Disk	1.0 Ft.
		6-11-69	37*	Secchi Disk	0.9 Ft.
				Cadmium	<0.01 Mg/L
				Chromium	<0.01 Mg/L
				Copper	<0.1 Mg/L
				Iron	0.2 Mg/L
				Lead	<0.01 Mg/L
				Manganese	<0.05 Mg/L
				Zinc	<0.01 Mg/L
		7-23-69	50*	Secchi Disk	0.75 Ft.
		8-20-69	40*	Secchi Disk	0.8 Ft.

*Hach turbidity units.

TABLE D-3
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
CENTRAL COASTAL AREA

Station Number	Station	Date	Turbidity Units	Other Constituents	
EO B 802.8 155.0	SACRAMENTO RIVER AT CHIPPS ISLAND (Continued)	9-18-69	35*	Secchi Disk	0.8 Ft.
				Cadmium	<0.01 Mg/L
				Chromium	<0.01 Mg/L
				Copper	<0.1 Mg/L
				Iron	<0.1 Mg/L
				Lead	<0.01 Mg/L
				Manganese	<0.05 Mg/L
				Zinc	<0.1 Mg/L
EO B 803.2 204.8	SUISUN BAY ABOVE AVON PIER	10-30-68	15*	Secchi Disk	1.7 Ft.
		11-25-68	14*	Secchi Disk	1.1 Ft.
		12-18-68	15*	Secchi Disk	1.0 Ft.
		1-28-69	90*	Secchi Disk	0.5 Ft.
		2-26-69	55*	Secchi Disk	0.7 Ft.
		3-27-69	15*	Secchi Disk	1.2 Ft.
		5-08-69	70*	Secchi Disk	0.7 Ft.
		6-10-69	50*	Secchi Disk	0.8 Ft.
		7-22-69	27*	Secchi Disk	1.7 Ft.
		8-19-69	30*	Secchi Disk	1.0 Ft.
		9-17-69	65*	Secchi Disk	0.7 Ft.
EO B 803.6 159.3	SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS	10-30-68	30*	Secchi Disk	0.9 Ft.
		11-25-68	20*	Secchi Disk	1.0 Ft.
		12-18-68	15*	Secchi Disk	0.9 Ft.
		1-28-69	90*	Secchi Disk	0.4 Ft.
		2-26-69	60*	Secchi Disk	0.8 Ft.
		3-27-69	15*	Secchi Disk	1.5 Ft.
		5-08-69	39*	Secchi Disk	0.9 Ft.
		6-10-69	32*	Secchi Disk	1.2 Ft
		7-22-69	55*	Secchi Disk	0.7 Ft.
		8-20-69	50*	Secchi Disk	0.75 Ft.
		9-18-69	39*	Secchi Disk	0.75 Ft.
EO B 804.0 203.0	SUISUN BAY NEAR PRESTON POINT	10-30-68	20*	Secchi Disk	1.3 Ft.
		11-25-68	50*	Secchi Disk	1.0 Ft.
		12-18-68	15*	Secchi Disk	1.1 Ft.
		1-28-69	100*	Secchi Disk	0.4 Ft.
		2-26-69	60*	Secchi Disk	0.7 Ft.
		3-27-69	15*	Secchi Disk	1.2 Ft.
		5-08-69	55*	Secchi Disk	0.7 Ft.
		6-10-69	40*	Secchi Disk	0.9 Ft.
		7-22-69	70*	Secchi Disk	0.7 Ft.
		8-19-69	70*	Secchi Disk	0.6 Ft.
		9-17-69	50*	Secchi Disk	0.75 Ft.
EO B 804.4 156.2	HONKER BAY NEAR WHEELER POINT	10-28-68	65*	Secchi Disk	0.5 Ft.
		11-26-68	60*	Secchi Disk	0.7 Ft.
		12-17-68	6*	Secchi Disk	0.7 Ft.
		1-29-69	240*	Secchi Disk	0.35 Ft.
		2-27-69	70*	Secchi Disk	0.7 Ft.
		3-27-69	20*	Secchi Disk	0.9 Ft.
		5-07-69	55*	Secchi Disk	0.75 Ft.
		6-10-69	40*	Secchi Disk	1.0 Ft.
				Cadmium	<0.01 Mg/L
				Chromium	<0.01 Mg/L
				Copper	<0.1 Mg/L
				Iron	0.3 Mg/L
				Lead	<0.01 Mg/L
				Manganese	<0.05 Mg/L
				Zinc	<0.1 Mg/L
		7-22-69	80*	Secchi Disk	0.4 Ft.
		8-19-69	77*	Secchi Disk	0.6 Ft.
		9-17-69	50*	Secchi Disk	0.75 Ft.
EO B 807.0 202.3	GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH	10-28-68	75*	Secchi Disk	0.4 Ft.
		11-26-68	45*	Secchi Disk	0.8 Ft.
				Suspended Solids	74 Mg/L
				Volatile Suspended Solids	10 Mg/L
		12-17-68	10*	Secchi Disk	0.8 Ft.
		1-29-69	90*	Secchi Disk	0.45 Ft.
		2-27-69	70*	Secchi Disk	0.6 Ft.
		3-27-69	20*	Secchi Disk	1.1 Ft.
		5-07-69	85*	Secchi Disk	0.75 Ft.
		6-11-69	65*	Secchi Disk	0.8 Ft.
		7-23-69	140*	Secchi Disk	0.4 Ft.
		8-20-69	60*	Secchi Disk	0.5 Ft.
		9-18-69	70*	Secchi Disk	0.6 Ft.

*Hach turbidity units.

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

CENTRAL COASTAL AREA

Station Number	Station	Date	Turbidity Units	Other Constituents	
EO S 809.2 205.3	CORDELIA SLOUGH AT CYGNUS	10-01-68	120*		
		10-09-68	80*		
		10-16-68	45*		
		10-31-68	60*		
		11-15-68	140*		
		12-16-68	65*	Secchi Disk	0.5 Ft.
		1-27-69	200*	Secchi Disk	0.3 Ft.
		2-12-69	75*	Secchi Disk	0.5 Ft.
		3-14-69	95*	Secchi Disk	0.4 Ft.
		4-11-69	60*	Secchi Disk	0.4 Ft.
		5-12-69	125*	Secchi Disk	0.3 Ft.
		6-12-69	120*	Secchi Disk	0.3 Ft.
		7-08-69	110*	Secchi Disk	0.3 Ft.
		8-05-69	110*	Secchi Disk	0.6 Ft.
		9-03-69	65*	Secchi Disk	0.6 Ft.
EO S 810.8 202.8	SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND	10-16-68	29*		
		10-22-68	45*		
		10-30-68	35*		
		11-14-68	25*		
		12-16-68	55*	Secchi Disk	0.6 Ft.
		3-14-69	100*	Secchi Disk	0.6 Ft.
		4-24-69	150*	Secchi Disk	0.3 Ft.
		5-12-69	120*	Secchi Disk	0.3 Ft.
		6-12-69	95*	Secchi Disk	0.4 Ft.
		8-05-69	150*	Secchi Disk	0.6 Ft.
		9-03-69	65*	Secchi Disk	0.7 Ft.
EO S 811.0 204.8	CHADBOURNE SLOUGH AT CHADBOURNE ROAD	10-01-68	30*		
		10-09-68	15*		
		10-16-68	20*		
		10-31-68	40*		
		11-15-68	50*		
		12-16-68	50*	Secchi Disk	0.6 Ft.
		1-27-69	75*	Secchi Disk	0.4 Ft.
		2-12-69	125*	Secchi Disk	0.4 Ft.
		3-14-69	90*	Secchi Disk	0.5 Ft.
		4-11-69	55*	Secchi Disk	0.5 Ft.
		5-12-69	100*	Secchi Disk	0.3 Ft.
		6-12-69	130*	Secchi Disk	0.3 Ft.
		7-08-69	110*	Secchi Disk	0.5 Ft.
		8-05-69	120*	Secchi Disk	0.5 Ft.
		9-03-69	60*	Secchi Disk	0.7 Ft.
EO S 811.2 158.5	MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD	10-01-68	25*		
		10-16-68	15*		
		10-31-68	50*		
		11-15-68	25*		
		12-16-68	45*	Secchi Disk	0.6 Ft.
		1-27-69	200*	Secchi Disk	0.6 Ft.
		2-12-69	80*	Secchi Disk	0.5 Ft.
		3-14-69	75*	Secchi Disk	0.7 Ft.
		4-11-69	40*	Secchi Disk	0.8 Ft.
		5-12-69	110*	Secchi Disk	0.4 Ft.
		6-12-69	80*	Secchi Disk	0.5 Ft.
		7-08-69	130*	Secchi Disk	0.4 Ft.
		8-05-69	100*	Secchi Disk	0.7 Ft.
		9-03-69	55*	Secchi Disk	0.7 Ft.
EO S 811.5 207.2	CORDELIA SLOUGH AT UPPER END NEAR CORDELIA	10-01-68	10*		
		10-16-68	4*		
		10-31-68	25*		
		4-11-69	40*	Secchi Disk	0.5 Ft.
		5-12-69	38*	Secchi Disk	0.3 Ft.
		6-12-69	50*	Secchi Disk	0.5 Ft.
		7-08-69	80*	Secchi Disk	0.3 Ft.
		8-05-69	140*	Secchi Disk	0.4 Ft.
		9-03-69	75*	Secchi Disk	0.6 Ft.
EO S 813.6 201.2	HILL SLOUGH AT GRIZZLY ISLAND ROAD	10-01-68	15*		
		10-16-68	22*		
		10-22-68	50*		
		10-30-68	45*		
		11-15-68	75*		
		12-16-68	50*	Secchi Disk	0.6 Ft.
		1-27-69	130*	Secchi Disk	0.6 Ft.
		2-12-69	100*	Secchi Disk	0.4 Ft.
		3-14-69	70*	Secchi Disk	0.6 Ft.
		4-11-69	35*	Secchi Disk	0.7 Ft.
		5-12-69	200*	Secchi Disk	0.4 Ft.
		6-12-69	100*	Secchi Disk	0.4 Ft.
		7-08-69	100*	Secchi Disk	0.6 Ft.
		8-05-69	150*	Secchi Disk	0.4 Ft.
		9-03-69	85*	Secchi Disk	0.4 Ft.

*Hach turbidity units.

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

CENTRAL COASTAL AREA

Station Number	Station	Date	Turbidity Units	Other Constituents		
E1 0 749.4 233.2	PACIFIC OCEAN AT POTATO PATCH SHOAL NEAR POINT BONITA	9-15-69		Suspended Solids	0	Mg/L
				MBAS	0.0	Mg/L
E3 1100.50	NAPA RIVER AT DUTTON LANDING	10-15-68		Secchi Disk	3.4	Ft.
				Suspended Solids	8	Mg/L
		12-09-68		Secchi Disk	3.1	Ft.
				Suspended Solids	13	Mg/L
		2-05-69		Secchi Disk	0.7	Ft.
				Suspended Solids	76	Mg/L
		4-07-69		Secchi Disk	1.0	Ft.
				Suspended Solids	45	Mg/L
		6-04-69		Secchi Disk	0.7	Ft.
				Suspended Solids	82	Mg/L
		8-13-69		Secchi Disk	1.3	Ft.
				Suspended Solids	43	Mg/L
E3 1500.00	NAPA RIVER NEAR ST. HELENA	4-23-69		Secchi Disk	0.9	Ft.
		9-15-69	10			
E5 1150.00	ALAMEDA CREEK NEAR NILES	10-16-68	20			
		11-07-68	30	Secchi Disk	1.1	Ft.
		12-10-68	10	Secchi Disk	>1.5	Ft.
		1-08-69	25			
		2-06-69	6600	Secchi Disk	0.1	Ft.
		3-12-69	92	Secchi Disk	0.6	Ft.
		4-08-69		Secchi Disk	2.7	Ft.
		5-01-69		Secchi Disk	>1.7	Ft.
		6-04-69	45	Secchi Disk	1.2	Ft.
		8-13-69	45			
E5 1400.00	ARROYO DEL VALLE NEAR LIVERMORE	4-25-69		Secchi Disk	2.2	Ft.
E6 4250.00	COYOTE CREEK NEAR MADRONE	4-28-69		Secchi Disk	1.4	Ft.
E6 5250.00	LOS GATOS CREEK AT LOS GATOS	5-01-69		Secchi Disk	>1	Ft.
		9-26-69	3			
E8 0 744.4 231.2	PACIFIC OCEAN OFF OCEAN AVENUE AT SAN FRANCISCO	1-15-69		Suspended Solids	0	Mg/L
				MBAS	0.00	Mg/L
E8 4302.01	CORINDA LOS TRANCOS CREEK NEAR HALF MOON BAY	3-07-69		Iron (Dissolved)	0.02	Mg/L
F8 2100.00	NAVARRO RIVER NEAR NAVARRO	11-19-68	3			
		1-23-69	500			
		3-05-69	95			
		5-15-69	3			
		7-17-69	3			
		9-11-69	5			
F8 2720.00	BIG RIVER NEAR MOUTH	11-19-68	7			
		1-23-69	340			
		3-05-69	45			
		5-15-69	3			
		7-17-69	2			
		9-11-69	4			
F8 3200.00	NOYO RIVER NEAR FORT BRAGG	11-20-68	4			
(F8 3080.50)		1-23-69	230			
		3-05-69	35			
		5-15-69	2			
		7-16-69	2			
		9-11-69	15			
F9 1080.50	RUSSIAN RIVER AT GUERNEVILLE	11-06-68	6			
		1-07-69	25			
		3-13-69	70	Secchi Disk	0.9	Ft.
		4-24-69		Secchi Disk	0.8	Ft.
		7-03-69	15			
		9-16-69	35			
F9 1500.00	RUSSIAN RIVER NEAR HEALDSBURG	4-24-69		Secchi Disk	0.6	Ft.
		9-15-69	8			
F9 1765.00	RUSSIAN RIVER NEAR HOPLAND	4-23-69		Secchi Disk	1.4	Ft.
		9-15-69	4			
F9 4900.00	RUSSIAN RIVER, EAST FORK, AT POTTER VALLEY POWERHOUSE	4-24-69		Secchi Disk	1.0	Ft.
		9-15-69	15			

TABLE D-4

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

(Chlorides in Milligrams Per Liter)

Station	Station Number	OCTOBER 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	13,200 e	12,500		11,700		13,200	13,000	11,400 a
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	11,100	7,850	6,290	10,400	9,680	9,550	11,700	8,520
SUISUN BAY AT PORT CHICAGO	E0B80342023	8,080	5,880	8,100	7,570		7,520 af		6,720
SUISUN BAY AT NICHOLS	E0B80301590	6,960	6,470	7,540	7,080	6,540		7,960	
SACRAMENTO RIVER AT PITTSBURG	B9D80231530		1,160	1,640		6,850	1,430 a	1,460	1,460
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	1,450 a	1,280	2,030 d	1,630 a		1,960	1,150 a	1,810

Station	Station Number	NOVEMBER 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	12,700	11,600	10,400	10,200	12,100	11,900	9,740	
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	8,500 a	8,300	7,910	8,720	10,100 a	6,810 a	6,350 a	10,900 a
SUISUN BAY AT PORT CHICAGO	E0B80342023	6,290		5,420		6,880	6,690	4,440 a	
SUISUN BAY AT NICHOLS	E0B80301590	6,880	4,800	6,490		6,490	6,180		4,860
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	1,290		1,020		942	874		496
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	1,470	1,410	825 a		1,120	449 a	532	669 d

Station	Station Number	DECEMBER 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133		10,600	11,000 ad	10,000 d		7,540	8,910	6,470
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	6,490 a	7,130 a	8,540 a	5,220 a	3,930 a	3,200 a	3,000	2,830 a
SUISUN BAY AT PORT CHICAGO	E0B80342023		3,960 ab			3,340	2,490		93 ab
SUISUN BAY AT NICHOLS	E0B80301590	4,710	5,860	7,230	5,150		894	1,150	
SACRAMENTO RIVER AT PITTSBURG	B9D80231530			1,260 ad		277 d	79	114	
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513			340 a	68	113	14 a		16

Station	Station Number	JANUARY 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133		6,840	7,080	7,180	4,050		119	112
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	1,700 a		5,440	6,910	1,940	34 d	16	20
SUISUN BAY AT PORT CHICAGO	E0B80342023			2,500		51 a	33	17 e	
SUISUN BAY AT NICHOLS	E0B80301500	527	954		3,940	59	20	10	
SACRAMENTO RIVER AT PITTSBURG	B9D80231530				148	28		24	
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513		13 a	15		10 a	10	6	9

*Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

b Taken on following day.

c Taken two days later.

d Taken over one hour off schedule time.

e Taken on preceding day.

f Taken two days earlier.

TABLE D-4

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

(Chlorides in Milligrams Per Liter)

Station	Station Number	FEBRUARY 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	87	1,980	1,320	1,420	38		195	
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	27	17 a	1,120	732	24	23	18	
SUISUN BAY AT PORT CHICAGO	E0B80342023	27	27 a	27	28	25	26		
SUISUN BAY AT NICHOLS	E0B80301590	34	20	21		17	24		
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	20		23	27	25	29	28 bd	
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	8	9	14	12	10	10	13	

Station	Station Number	MARCH 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	586		1,970	4,380			4,100	5,570
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	25	21 a		957	233 a	1,370	1,020	2,700
SUISUN BAY AT PORT CHICAGO	E0B80342023	31	24	23		34	31	32	37
SUISUN BAY AT NICHOLS	E0B80301590		24	22	22	27		26	
SACRAMENTO RIVER AT PITTSBURG	B9D80231530		27 ab	25	23	29 d	29	31	26
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513		12	11	27	18	17	19	40

Station	Station Number	APRIL 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133		3,520		2,920 b	3,450		3,600 b	5,680
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	860 ab	1,560	465	340 ab	222 a	1,840 a	3,350 b	2,880 a
SUISUN BAY AT PORT CHICAGO	E0B80342023	38 b	22 a	25	23 b	23	71	1,380 b	1,010
SUISUN BAY AT NICHOLS	E0B80301590		33	17	19 b		15	16 b	80
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	26 bc		21	20 b	20		17 bd	
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	16 ab	14 a	10	13 ab	11	12		11

Station	Station Number	MAY 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	4,780 e	4,350	5,320 b	4,750 b	3,820			
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	3,460 e	3,400	2,780 a	912 b	1,750	575	712 ab	495 a
SUISUN BAY AT PORT CHICAGO	E0B80342023	600 e	506	637 b	26 a	26	16	19 ab	24
SUISUN BAY AT NICHOLS	E0B80301590		448	130 b	22 b	15	14	11 b	14 b
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	17 b	18	19 a	20 a	19	14 cd		
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513		10	11 a		10 a	10	16 ab	10 a

*Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

b Taken on following day.

c Taken two days later.

d Taken over one hour off schedule time.

e Taken on preceding day.

f Taken two days earlier.

TABLE D-4

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

(Chlorides in Milligrams Per Liter)

Station	Station Number	JUNE 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133		4,150	4,620	3,400	2,520	3,480 e		6,720
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	900	1,700	545 g	18 g				
SUISUN BAY AT PORT CHICAGO	E0B80342023	226	28 eg		106	23	1,440 e	2,200	2,880
SUISUN BAY AT NICHOLS	E0B80301590	20	15						
SACRAMENTO RIVER AT PITTSBURG	B9D80231530		13 bd		13 g	14 g	13 g		20 g
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	8 g	8 g	8 g	10 g	10 g			

Station	Station Number	JULY 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133			8,420 ad		9,110	9,360 e	11,300	12,000
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078		2,440 a	3,860 a	6,300	887 a	7,820 e	7,360 cd	9,060
SUISUN BAY AT PORT CHICAGO	E0B80342023		3,400 d		3,230	2,680	4,040 e		
SUISUN BAY AT NICHOLS	E0B80301590					73 a	114 a	241 a	
SACRAMENTO RIVER AT PITTSBURG	B9D80231530								
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513								

Station	Station Number	AUGUST 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	11,600	10,500 e	11,500	10,300	10,800		10,400	11,100
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	5,920 a	8,000 e	6,850 a	6,580 a	6,280 a	6,320 bd	5,100 ad	6,020 a
SUISUN BAY AT PORT CHICAGO	E0B80342023	3,860		5,560	5,500	4,580	4,000 e	4,800	3,050 bd
SUISUN BAY AT NICHOLS	E0B80301590								
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	360 a	272 a	341 a		374 a		291 a	207 a
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513						75 e	49 a	48 a

Station	Station Number	SEPTEMBER 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	10,600 d	8,950 e	9,700	10,000	7,700 d	7,000 e	8,650	
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	4,380 a	5,050 e	4,350 a	4,600 a	5,600	4,780 a	2,820	6,550
SUISUN BAY AT PORT CHICAGO	E0B80342023	3,000		3,600	2,500	406			1,560
SUISUN BAY AT NICHOLS	E0B80301590								
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	145 a	91 a	56 a	44 a	70 a	30 a	31	44 ad
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	73	21 a		18	25	16 a		21

*Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off schedule time.
e Taken on preceding day.
f Taken two days earlier.
g Taken after low low tide.

TABLE D-5

NUTRIENTS IN SURFACE WATER

Abbreviations and Chemical Codes

NITRATE SERIES

NO_3	-	Nitrate (unfiltered)
NO_2	-	Nitrite (unfiltered)
ORG	-	Organic Nitrogen (unfiltered)
NH_4	-	Ammonium (unfiltered)
TOTAL	-	Total Nitrogen (unfiltered)
N	-	Nitrogen (unfiltered)

PHOSPHATE SERIES

ORTHO	-	Ortho-Phosphate (filtered)
HYDRO	-	Hydrolizable Phosphates (filtered)
TOTAL	-	Total and Organic Phosphates (unfiltered)

MISCELLANEOUS NUTRIENTS

FTP	-	Filtered Total Phosphates as P
PO_4	-	Unfiltered Ortho-Phosphates as P
PON	-	Particulate Organic Nitrogen as N
DON	-	Dissolved Organic Nitrogen as N
M	-	Milligrams per liter
MY	-	Less than value indicated in milligrams per liter

SAMP Codes for agency collecting sample

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

LAB Codes for laboratory performing analysis

5006	-	Laboratory at McClellan Air Force Base used by U. S. Bureau of Reclamation
5050	-	Department of Water Resources Laboratory at Bryte

TABLE D-5
NUTRIENTS IN SURFACE WATER
CENTRAL COASTAL AREA

DATE TIME	NUTRIENTS (Mg/L) NITROGEN SERIES AS N					PHOSPHATE SERIES AS P			MISCELLANEOUS NUTRIENTS										SAMP	LAB
	NO_3	NO_2	ORG	NH_4	TOTAL	ORTHO	HYDRO	TOTAL	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR		
DO 1200.00 SAN LORENZO RIVER AT BIG TREES																						
11-07-68 0800	0.25	0.00	0.3	0.04		0.20	0.04	0.26													5050	5050
01-08-69 0830	0.40	0.00	0.1	0.00		0.15	0.02	0.17													5050	5050
03-12-69 0700	0.19	0.00	0.1	0.00		0.07	0.00	0.33													5050	5050
05-01-69 0630	0.13	0.00	0.1	0.00		0.10	0.00	0.12													5050	5050
EO B 735.0 215.0 SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)																						
09-16-69 0950	0.37		0.0	0.01		0.36	0.00	0.46	FTP	00.38	M										5050	5050
12-15-69 1510	0.49		0.0	0.12		0.19	0.07	0.26													5050	5050
EO B 736.2 211.6 SAN FRANCISCO BAY AT SAN MATEO BRIDGE																						
10-15-68 0855	0.54	0.02	0.0	0.01		0.33	0.17	0.67													5050	5050
12-09-68 0935	0.70	0.02	0.8	0.07		0.27	0.16	0.60													5050	5050
02-05-69 0835	0.67	0.04	0.1	0.01		0.15	0.02	0.18													5050	5050
04-07-69 1020	0.28	0.01	0.0	0.00		0.13	0.04	0.29													5050	5050
06-04-69 1045	0.03	0.00	0.1	0.03		0.12	0.4	0.47													5050	5050
08-13-69 0930	0.46	0.01	0.3	0.04		0.29	0.29	0.65													5050	5050
EO B 748.1 222.4 SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND																						
09-16-69 1100	0.24		0.3	0.04		0.09	0.00	0.13	FTP	00.12	M										5050	5050
EO B 748.4 228.2 SAN FRANCISCO BAY AT FORT POINT																						
10-14-68 0945	0.22	0.01	0.0	0.05		0.12	0.09	0.25													5050	5050
12-10-68 0810	0.37	0.02	0.0	0.06		0.06	0.04	0.16													5050	5050
02-06-69 0735	0.25	0.01	0.1	0.00		0.03	0.01	0.04													5050	5050
04-08-69 0840	0.16	0.01	0.0	0.01		0.05	0.02	0.07													5050	5050
06-03-69 0720	0.33	0.01	0.1	0.00		0.06	0.03	0.22													5050	5050
08-12-69 0710	0.37	0.01	0.0	0.04		0.08	0.08	0.18													5050	5050
EO B 748.S 228.6 SAN FRANCISCO BAY AT GOLDEN GATE BRIDGE																						
09-15-69 1015	0.20		0.1	0.12		0.06	0.00	0.11	FTP	00.08	M										5050	5050
EO B 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND																						
10-14-68 1045	0.28	0.01	0.1	0.05		0.11	0.06	0.27													5050	5050
12-09-68 0820	0.40	0.02	0.3	0.04		0.09	0.04	0.19													5050	5050
02-05-69 0720	0.38	0.01	0.0	0.00		0.05	0.01	0.07													5050	5050
04-07-69 0840	0.26	0.01	0.0	0.00		0.07	0.00	0.07													5050	5050
06-04-69 0840	0.26	0.01	0.2	0.00		0.07	0.00	0.40													5050	5050
08-13-69 0810	0.39	0.01	0.0	0.00		0.11	0.15	0.27													5050	5050

TABLE D-5
NUTRIENTS IN SURFACE WATER
CENTRAL COASTAL AREA

DATE TIME	NUTRIENTS (Mg/L)								MISCELLANEOUS NUTRIENTS											SAMP	LAB
	NITROGEN SERIES AS N					PHOSPHATE SERIES AS P															
	NO_3	NO_2	ORG	NH_4	TOTAL	ORTHO	HYDRO	TOTAL	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR		
EO B 757.7 225.6 SAN PABLO BAY AT POINT SAN PABLO																					
10-15-68 1020	0.30	0.01	0.0	0.06		0.14	0.07	0.43													5050	5050
12-10-68 0930	0.49	0.03	0.1	0.06		0.08	0.11	0.31													5050	5050
02-06-69 0830	0.44.	0.01	0.5	0.01		0.07	0.01	0.15													5050	5050
04-08-69 1000	0.32	0.01	0.3	0.15		0.09	0.07	0.27													5050	5050
03-03-69 0930	0.38	0.01	0.5	0.01		0.07	0.11	0.29													5050	5050
08-12-69 0820	0.22	0.03	0.0	0.11		0.07	0.07	0.15													5050	5050
EO B 757.7 226.2 SAN PABLO STRAIT WEST OF THE BROTHERS																					
09-16-69 1200	0.28		0.1	0.09		0.09	0.00	0.12	FTP	00.09	M										5050	5050
EO B 802.3 207.1 SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ																					
10-30-68 1045	1.1		0.65	0.1				0.05	PO_4	00.02	M										5001	5006
11-25-68 0920	0.1		0.68	0.44				0.08	PO_4	00.02	M										5001	5006
12-18-68 1245	0.6		0.12	0.15				0.33	PO_4	00.11	M										5001	5006
01-28-69 1055	1.3		1.40	0.46				0.11	PO_4	00.01	M										5001	5006
02-26-69 0955	0.2		0.65	<0.08				0.08	PO_4	00.05	M										5001	5006
03-27-69 0930	0.4		0.58	<0.08				0.07	PO_4	00.06	M	DON	00.54	M	PON	00.04	M				5001	5006
05-08-69 0725	0.2		0.82	<0.08				0.09	PO_4	00.07	M										5001	5006
06-11-69 1445	<0.1		1.0	0.10				0.04	PO_4	00.01	M										5001	5006
07-23-69 1130	0.2		0.52	0.01				0.17	PO_4	00.03	M	DON	00.46	M	PON	00.06	M				5001	5006
08-20-69 1040	<0.05		0.56	<0.005				0.14	PO_4	0.003	M	DON	00.21	M	PON	00.35	M				5001	5006
09-18-69 0935	0.20		0.27	0.11				0.16	PO_4	00.07	M	DON	00.27	M	PON	00.01	MY				5001	5006
EO B 802.4 208.2 SUISUN BAY AT BENICIA (END OF PIER)																					
10-14-68 1300	0.25	0.01	0.3	0.08		0.07	0.11	0.20													5050	5050
12-10-68 1100	0.50	0.04	0.8	0.08		0.08	0.04	0.27													5050	5050
02-06-69 1015	0.68	0.00	0.7	0.00		0.09	0.10	0.31													5050	5050
EO B 802.5 208.1 SUISUN BAY AT BENICIA (MIDDLE OF PIER)																					
04-08-69 1120	0.39	0.00	0.8	0.00		0.11	0.14	0.67													5050	5050
06-06-69 1245	0.67	0.01	1.0	0.03		0.04	0.89	0.93													5050	5050
08-12-69 0950	0.16	0.00	1.1	0.00		0.03	0.02	0.42													5050	5050
EO B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND																					
10-30-68 1200	0.8		0.70	<0.08				0.04	PO_4	00.02	M										5001	5006
11-25-68 1020	<0.1		0.50	0.08				0.10	PO_4	00.02	M										5001	5006
12-18-68 1350	0.5		0.42	0.11				0.34	PO_4	00.10	M										5001	5006
01-28-69 1250	0.8		0.50	<0.08				0.10	PO_4	00.01	M										5001	5006
02-26-69 1145	<0.1		<0.08	<0.08				0.08	PO_4	00.05	M										5001	5006
03-27-69 1225	0.3		0.68	0.60				0.09	PO_4	00.05	M	DON	00.59	M	PON	00.09	M				5001	5006

TABLE D-5
NUTRIENTS IN SURFACE WATER
CENTRAL COASTAL AREA

DATE TIME	NUTRIENTS (Mg/L) NITROGEN SERIES AS N					PHOSPHATE SERIES AS P			MISCELLANEOUS NUTRIENTS											SAMP	LAB
	NO_3	NO_2	ORG	NH_4	TOTAL	ORTHO	HYDRO	TOTAL	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR		
EO B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND (Continued)																						
05-08-69 0850	0.3		0.95	<0.08				0.08	PO_4	00.05	M										5001	5006
06-11-69 1605	<0.1		0.75	0.10				0.05	PO_4	00.01	M										5001	5006
07-23-69 1255	<0.05		0.51	0.01				0.22	PO_4	00.03	M	DON	00.36	M	PON	00.15	M				5001	5006
08-20-69 1235	<0.05		0.39	<0.005				0.16	PO_4	00.05	M	DON	00.37	M	PON	00.02	M				5001	5006
09-18-69 1120	0.07		0.22	0.11				0.14	PO_4	00.07	M	DON	00.15	M	PON	00.07	M				5001	5006
EO B 803.2 204.8 SUISUN BAY ABOVE AVON PIER																						
10-30-68 1110	1.0		0.65	<0.08				0.06	PO_4	00.03	M										5001	5006
11-25-68 0935	0.4		0.63	0.10				0.07	PO_4	00.02	M										5001	5006
12-18-68 1300	0.7		0.55	0.18				0.37	PO_4	00.10	M										5001	5006
01-28-69 1120	1.3		1.33	0.13				0.11	PO_4	00.01	MY										5001	5006
02-26-69 1020	0.2		0.80	<0.08				0.08	PO_4	00.06	M										5001	5006
03-27-69 1030	0.4		0.33	0.08				0.07	PO_4	00.06	M	DON	00.31	M	PON	00.02	M				5001	5006
09-17-69 0810	0.18		0.75	0.05				0.50	PO_4	00.29	M										5001	5006
EO B 803.6 159.3 SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS																						
10-30-68 1045	0.8		0.54	<0.08				0.04	PO_4	00.01	M										5001	5006
11-25-68 1005	<0.1		0.55	0.08				0.08	PO_4	00.02	M										5001	5006
12-18-68 1330	0.4		0.60	0.24				0.33	PO_4	00.10	M										5001	5006
01-28-69 1210	1.0		1.34	<0.08				0.07	PO_4	00.01	M										5001	5006
02-26-69 1110	0.4		0.18	<0.08				0.08	PO_4	00.06	M										5001	5006
03-27-69 1140	0.3		0.60	<0.08				0.06	PO_4	00.05	M	DON	00.46	M	PON	00.14	M				5001	5006
05-08-69 0830	0.3		0.70	<0.08				0.09	PO_4	00.06	M										5001	5006
09-18-69 1055	0.09		0.43	0.02				0.15	PO_4	00.07	M										5001	5006
EO B 804.0 203.0 SUISUN BAY NEAR PRESTON POINT																						
10-30-68 1130	0.8		0.65	0.1				0.04	PO_4	00.02	M										5001	5006
11-25-68 0950	0.5		0.75	0.13				0.09	PO_4	00.01	M										5001	5006
12-18-68 1310	0.6		0.95	0.40				0.35	PO_4	00.11	M										5001	5006
01-28-69 1140	1.2		1.11	0.08				0.11	PO_4	00.01	M										5001	5006
02-26-69 1035	0.1		0.41	<0.08				0.08	PO_4	00.06	M										5001	5006
03-27-69 1055	0.4		0.68	<0.08				0.07	PO_4	00.05	M				PON	00.19	M				5001	5006
05-08-69 0805	0.2		0.70	<0.08				0.09	PO_4	00.06	M										5001	5006
09-17-69 0840	0.09		0.50	<0.005				0.14	PO_4	00.09	M										5001	5006
EO B 804.4 156.2 HONKER BAY NEAR WHEELER POINT																						
10-28-68 --	<0.1		<0.08	<0.08				0.03	PO_4	00.02	M										5001	5006
11-26-68 0945	0.4		0.70	0.08				0.07	PO_4	00.02	M										5001	5006
12-17-68 1320	0.4		0.46	0.22				0.36	PO_4	00.01	MY										5001	5006

TABLE D-5
NUTRIENTS IN SURFACE WATER
CENTRAL COASTAL AREA

DATE TIME	NUTRIENTS (Mg/L) NITROGEN SERIES AS N					PHOSPHATE SERIES AS P			MISCELLANEOUS NUTRIENTS											SAMP	LAB
	NO_3	NO_2	ORG	NH_4	TOTAL	ORTHO	HYDRO	TOTAL	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR		
EO B 804.4 156.2 HONKER BAY NEAR WHEELER POINT (Continued)																					
01-29-69 1140	0.3		1.06	0.13				0.07	PO_4	00.02	M										5001	5006
02-27-69 1105	<0.1		0.32	0.08				0.07	PO_4	00.05	M										5001	5006
03-28-69 1125	0.3		0.65	0.20				0.07	PO_4	00.05	M	DON	00.38	M	PON	00.27	M				5001	5006
05-07-69 0755	0.3		1.50	<0.08				0.29	PO_4	00.17	M										5001	5006
09-17-69 0920	0.10		0.69	<0.005				0.16	PO_4	00.08	M										5001	5006
EO B 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH																					
10-28-68 --	<0.1		0.09	<0.08				0.01	PO_4	00.01	MY										5001	5006
11-26-68 0905	0.2		0.60	0.08				0.07	PO_4	00.02	M										5001	5006
12-17-68 1230	0.6		0.70	0.46				0.38	PO_4	00.09	M										5001	5006
01-29-69 1030	0.4		1.11	<0.08				0.09	PO_4	00.01	M										5001	5006
02-27-69 1010	<0.1		0.27	<0.08				0.06	PO_4	00.03	M										5001	5006
03-28-69 1025	0.3		0.57	<0.08				0.08	PO_4	00.05	M	DON	00.54	M	PON	00.03	M				5001	5006
05-07-69 0705	0.2		1.40	<0.08				0.08	PO_4	00.06	M										5001	5006
06-11-69 1525	0.2		0.60	<0.08				0.05	PO_4	00.01	M										5001	5006
07-23-69 1215	0.2		0.88	<0.005				0.32	PO_4	00.04	M	DON	00.39	M	PON	00.49	M				5001	5006
08-20-69 1125	<0.05		0.53	0.01				0.20	PO_4	00.02	M	DON	00.10	M	PON	00.43	M				5001	5006
09-18-69 1015	0.09		0.29	0.09				0.19	PO_4	00.07	M	DON	00.28	M	PON	00.01	MY				5001	5006
EO S 809.2 205.3 CORDELIA SLOUGH AT CYGNUS																					
10-31-68 --	0.3		<0.08	<0.08				0.02	PO_4	00.01	MY										5001	5006
02-12-69 1015	0.5		1.80	0.34				0.08	PO_4	00.06	M										5001	5006
05-12-69 1035	0.3		1.50	<0.08				0.03	PO_4	00.01	MY										5001	5006
08-05-69 1030	0.5		0.50	0.15				0.07	PO_4	00.04	M											
EO S 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND																					
10-30-68 1215	0.7		0.8	<0.08				0.01	PO_4	00.02	M										5001	5006
05-12-69 1430	0.3		0.22	<0.08				0.18	PO_4	00.17	M										5001	5006
08-05-69 1500	0.5		0.53	<0.08				0.13	PO_4	00.08	M										5001	5006
EO S 811.0 204.8 CHADBOURNE SLOUGH AT CHADBOURNE ROAD																					
10-31-68 --	0.3		<0.08	<0.08				0.03	PO_4	00.01	MY										5001	5006
02-12-69 1230	0.6		1.54	0.22				0.08	PO_4	00.04	M										5001	5006
05-12-69 1245	0.3		0.90	<0.08				0.07	PO_4	00.04	M										5001	5006
08-05-69 1300	0.5		0.20	0.09				0.08	PO_4	00.04	M										5001	5006
EO S 811.2 158.5 MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD																					
10-31-68 --	0.3		0.70	<0.08				<0.01	PO_4	00.01	MY										5001	5006
02-12-69 1420	0.5		1.52	0.28				0.06	PO_4	00.04	M										5001	5006

TABLE D-5
NUTRIENTS IN SURFACE WATER
CENTRAL COASTAL AREA

DATE TIME	NUTRIENTS (Mg/L)								MISCELLANEOUS NUTRIENTS											SAMP	LAB
	NITROGEN SERIES AS N					PHOSPHATE SERIES AS P															
	NO_3	NO_2	ORG	NH_4	TOTAL	ORTHO	HYDRO	TOTAL	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR		
EO S 811.2 158.5 MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD (Continued)																					
05-12-69 1345	0.2		<0.08	<0.08				0.07	PO_4	00.05	M										5001	5006
08-05-69 1420	0.4		0.53	0.09				0.06	PO_4	00.03	M										5001	5006
EO S 811.5 207.2 CORDELIA SLOUGH AT UPPER END NEAR CORDELIA																					
10-31-68 --	0.7		0.65	<0.08				0.04	PO_4	00.02	M										5001	5006
05-12-69 1135	0.2		0.50	<0.08				0.06	PO_4	00.03	M										5001	5006
08-05-69 1145	0.5		0.59	0.15				0.10	PO_4	00.06	M										5001	5006
EO S 813.6 201.2 HILL SLOUGH AT GRIZZLY ISLAND ROAD																					
10-30-68 1355	0.7		0.90	0.08				0.10	PO_4	00.05	M										5001	5006
02-12-69 1325	0.2		2.35	0.25				0.25	PO_4	00.21	M										5001	5006
05-12-69 1315	0.3		1.42	<0.08				0.12	PO_4	00.07	M										5001	5006
08-05-69 1345	0.7		0.14	<0.08				0.32	PO_4	00.27	M										5001	5006
E1 O 749.4 233.2 PACIFIC OCEAN AT POTATO PATCH SHOAL NEAR POINT BONITA																					
09-15-69 1150	0.17		0.10	0.01		0.05	0.01	0.08	FTP	00.06	M										5050	5050
E3 1100.50 NAPA RIVER AT DUTTON LANDING																					
10-15-68 0945	0.14	0.00	0.4	0.09		0.09	0.09	0.17													5050	5050
12-09-68 1120	0.62	0.03	0.6	0.04		0.08	0.02	0.18													5050	5050
02-05-69 1115	1.10	0.01	0.6	0.40		0.15	0.06	0.25													5050	5050
04-07-69 1200	0.89	0.02	0.5	0.11		0.10	0.04	0.37													5050	5050
06-04-69 1225	0.15	0.01	0.7	0.14		0.10	0.06	0.40													5050	5050
08-13-69 1105	0.06	0.00	0.6	0.00		0.05	0.08	0.18													5050	5050
E5 1150.00 ALAMEDA CREEK NEAR NILES																					
11-07-68 1115	2.0	0.01	0.4	0.02		1.3	0.0	1.3													5050	5050
01-08-69 1027	2.8	0.07	0.7	0.15		1.37	0.13	1.57													5050	5050
03-12-69 1115	1.2	0.06	0.4	0.00		0.37	0.10	0.70													5050	5050
05-01-69 1030	1.7	0.24	0.7	0.25		1.5	0.0	1.5													5050	5050
08-13-69 0700	1.9	0.00	0.6	0.00		2.1	0.0	2.1													5050	5050
E8 O 744.4 231.2 PACIFIC OCEAN OFF OCEAN AVENUE AT SAN FRANCISCO																					
09-15-69 1115	0.12		0.3	0.02		0.03	0.00	0.06	FTP	00.03	M										5050	5050
F9 1080.50 RUSSIAN RIVER AT GUERNEVILLE																					
11-06-68 0830	0.53	0.02	0.6	0.19		0.43	0.17	0.77													5050	5050
01-07-69 1030	1.0	0.02	0.2	0.17		0.09	0.04	0.15													5050	5050
03-13-69 0845	0.70	0.02	0.2	0.02		0.04	0.01	0.26													5050	5050
04-24-69 1200	0.48	0.03	0.3	0.14		0.13	0.05	0.23													5050	5050
09-16-69 0630	0.06		0.1	0.00		0.24	0.00	0.24													5050	5050

TABLE D-6

PESTICIDES IN SURFACE WATER AND SEDIMENT

Abbreviations used in the following table include:

BHC - Benzene hexachloride

ppDDD - Para para isomer of dichloro diphenyl dichloroethane

ppDDE - Para para isomer of dichloro diphenyl ethane

DDT - Dichloro diphenyl trichlorethane

ppDDT - Para para isomer of dichloro diphenyl trichlorethane

Where two pesticides are reported together with a slash mark separating them (ppDDE/Dieldrin, Simazine/Atrazine, etc.), the reported concentration is an undifferentiated total of the two. Either of the two pesticides could make up the entire total.

TABLE D-6

PESTICIDES IN SURFACE WATER AND SEDIMENT

CENTRAL COASTAL AREA

Station Number	Station	Date and Time Sampled (P.S.T)	Pesticides in Water (nanograms per liter)	Pesticides in Sediment (micrograms per liter of dry weight)
EO B 735.5 219.4	SAN FRANCISCO BAY, SOUTH, AT COYOTE POINT	10-22-68 1030	Dieldrin = 4 ppDDD = 6 ppDDT = 9 Unknown as DDT = 3 Unknown as DDT = 4 Unknown as DDT = 9	No chlorinated pesticides detected
		2- 4-69 1750	BHC = 4	
		6- 5-69 1630	Unknown as DDT = 8	
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	10-15-68 0855	BHC = 6 Dieldrin = 4 ppDDT = 6	Complex chlorinated compounds as DDT = 0.024
		2- 5-69 0835	BHC = 5	
		6- 4-69 1045	Unknown as DDT = 5 Unknown as DDT = 6	
EO B 748.4 228.2	SAN FRANCISCO BAY AT FORT POINT	10-14-68 0945	ppDDT = 11	Unknown as DDT = 1 ppDDD = 4
		2- 6-69 0735	No chlorinated pesticides detected	
		6- 3-69 0720	Unknown as DDT = 8	
EO B 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	10-14-68 1045	No chlorinated pesticides detected	Unknown as DDT = 1 ppDDD = 4
		11- 6-68 0704	No chlorinated pesticides detected	
		2- 5-69 0720	Unknown as DDT = 4	
		6- 4-69 0840	Unknown as DDT = 32	
EO B 757.7 225.6	SAN PABLO BAY AT POINT SAN PABLO	10-15-68 1020	No chlorinated pesticides detected	DDD = 10
		2- 6-69 0830	BHC = 4	
		6- 3-69 0930	Unknown as DDT = 12	
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	10-30-68 1045	Lindane = 15	
		11-25-68 0920	Heptachlor like = 42	
EO B 802.4 208.2	SUISUN BAY AT BENICIA (END OF PIER)	10-14-68 1300	No chlorinated pesticides detected	No chlorinated pesticides detected
		12-10-68 1100	Unknown as DDT = 8	
		2- 6-69 1015	No chlorinated pesticides detected	
EO B 802.5 208.1	SUISUN BAY AT BENICIA (MIDDLE OF PIER)	4- 8-69 1120	BHC = 4 Dieldrin = 3 ppDDD = 5 ppDDT = 2	
		6- 6-69 1245	Unknown as DDT = 11 ppDDD = 3	
		8-12-69 0950	Complex chlorinated compounds as DDT = 19100 Unknown as parathion = 6 Unknown as parathion = 6	
E3 1100.50	NAPA RIVER AT DUTTON LANDING	10-15-68 --	BHC = 12 ppDDE = 7 ppDDD = 5 ppDDT = 3	
		10-22-68 1025		ppDDD = 2 ppDDT = 1
		2-11-69 1030	BHC = 6	
		6- 4-69 1225	BHC = 6 Unknown as DDT = 400	

TABLE D-7

PLANKTON ANALYSIS OF SURFACE WATER

DATE TIME	PHYTOPLANKTON (NO/ML)					MOST ABUNDANT PHYTOPLANKTON (GENUS / %)								ZOOPLANKTON (NO/ L)				MOST ABUNDANT ZOO-PLANKTON (GENUS/%)			SAMP	LAB
	TOTAL	BL-GR C/F	GREEN C/F	FLAG GR/O	DIATOMS C/P	1	2	3	4	5	6	7	8	TOTAL	ROTIFER	CRUST	MISC	1	2	3		
EO B 735.0 215.0 SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)																						
09-16-69 0950	480			480		F 99 / 100.0								41		41		C 50 / 82.9	C 02 / 17.1		5050	5050
EO B 736.2 211.6 SAN FRANCISCO BAY AT SAN MATEO BRIDGE																						
10-15-68 0855	258			130	128	F 99 / 50.4	D 03 / 24.8	D 04 / 12.4	D 08 / 12.4					82	10	67	5	C 99 / 81.7	R 99 / 12.2	M 04 / 6.1	5050	5050
08-13-69 0930	1262			1100	162	F 99 / 87.2	D 03 / 10.3	D 04 / 2.5													5050	5050
EO B 748.1 222.4 SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND																						
09-16-69 1100	774			580	130 / 64	F 99 / 75.0	D 03 / 16.8	D 65 / 4.1	D 66 / 4.1					37	3	34		C 02 / 45.9	C 50 / 43.3	R 99 / 8.1	5050	5050
EO B 748.4 228.2 SAN FRANCISCO BAY AT FORT POINT																						
10-14-68 0945	256			160	96	F 99 / 62.5	D 03 / 25.0	D 09 / 12.5						82	19	53	10	C 02 / 64.6	R 99 / 23.2	M 02 / 12.2	5050	5050
08-12-69 0710	476			412	32 / 32	F 99 / 79.8	F 54 / 6.8	D 08 / 6.7	D 66 / 6.7												5050	5050
EO B 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND																						
10-14-68 1045	128		64	322	96 / 32	F 99 / 56.4	G 22 / 12.5	D 03 / 6.3	D 05 / 6.2	D 08 / 6.2	D 64 / 6.2	F 54 / 6.2	D 02 / *	161	63	95	3	C 99 / 59.0	R 99 / 39.1	M 03 / 1.9	5050	5050
08-13-69 0810	932			900	32	F 99 / 96.6	D 02 / 3.4														5050	5050
EO B 757.7 225.6 SAN PABLO BAY AT POINT SAN PABLO																						
10-15-68 1020	224			96	96 / 32	F 99 / 42.9	D 03 / 28.5	D 02 / 14.3	D 51 / 14.3					69		60	9	C 02 / 87.0	M 02 / 13.0		5050	5050
08-12-69 0820	320			224	96	F 99 / 50.0	D 02 / 30.0	F 54 / 20.0													5050	5050
EO B 757.7 226.2 SAN PABLO STRAIT WEST OF THE BROTHERS																						
09-16-69 1200	1100			1100		F 99 / 100.0								75	2	73		C 02 / 52.0	C 50 / 42.3	R 99 / 2.7	5050	5050
EO B 802.4 208.2 SUISUN BAY AT BENICIA (END OF PIER)																						
10-14-68 1300	386		226	96	64	G 02 / 33.7	G 22 / 24.9	F 99 / 24.9	D 02 / 16.5					34	10	24		C 02 / 41.1	C 50 / 29.4	R 99 / 29.4	5050	5050
EO B 802.5 208.1 SUISUN BAY AT BENICIA (MIDDLE OF PIER)																						
08-12-69 0950	11894		130	770	10800 / 194	D 02 / 62.2	D 03 / 12.6	D 08 / 8.4	D 04 / 7.6	F 99 / 6.5	G 15 / 1.1	D 66 / 1.1	D 70 / 0.5								5050	5050
E3 1100.50 NAPA RIVER AT DUTTON LANDING																						
10-15-68 0945	220			220		F 99 / 100.0								189	14	175		C 02 / 90.0	R 99 / 7.4	C 50 / 2.6	5050	5050
08-13-69 1105	1534		64 / 0	580	700 / 190	F 99 / 37.8	D 02 / 22.8	D 03 / 22.8	D 66 / 12.4	G 02 / 2.1	G 22 / 2.1										5050	5050

The following are the codes and abbreviations used in this table.

PHYTOPLANKTON

Total - Total phytoplankton count per milliliter

Bl-Gr - Blue Green Algae

C/F - Coccoid over Filamentous (undifferentiated if dividing line not shown)

Green - Green Algae

Flag - Flagellates

Gr/O - Green over Other Pigmented (undifferentiated if dividing line not shown)

C/P - Centric over Pennate (undifferentiated if dividing line not shown)

Most Abundant Plankton - Indicates specific genus code over its percentage of total

Green Algae

Coccoid

G 02 Ankistrodesmus
G 15 Scenedesmus
G 22 Selenastrum

Flagellates

Other Pigmented

F 54 Dinoflagellates (Dinophyceae)
F 99 Unidentified Other

Diatoms

Centric

D 02 Coscinodiscus
D 03 Cyclotella
D 04 Melosira (salt water)
D 05 Melosira (fresh water)
D 08 Skeletonema
D 09 Chaetrocerus

Pennate

D 51 Achnanthes
D 64 Gyrosigma
D 65 Navicula
D 66 Nitzschia
D 70 Synedra

ZOOPLANKTON

Total - Total zooplankton count per milliliter

Crust - Crustacea

Misc - Miscellaneous zooplankton

Most Abundant Zooplankton

Rotifers

R 99 Unidentified Rotifers

Crustacea

C 02 Nauplii
C 50 Unidentified Copepod
C 99 Unidentified Crustacea

Miscellaneous

M 02 Annelid Worms
M 03 Fish Larvae
M 04 Pulvinulina (Amebas)

Appendix E

GROUND WATER QUALITY

INTRODUCTION

This appendix presents ground water quality data collected during the period from October 1, 1968, through September 30, 1969. The data were collected from a number of major ground water sources in the Central Coastal Area in cooperation with other state, local, and federal agencies. During the 1969 water year, 265 wells were sampled in 20 ground water basins and subbasins or subareas.

At the time of field sampling, pH and temperature measurements are normally made. Comments on current conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Wastewater", 12th Edition.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements", on page 29. The locations of the ground water basins and subbasins are shown on Figure C-1, pages 31, 32, and 33.

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2-01.00	Petaluma Valley	113
2-02.00	Napa-Sonoma Valley	
2-02.01	Napa Valley	114
2-02.02	Sonoma Valley	115
2-03.00	Suisun-Fairfield Valley	115
2-04.00	Pittsburg Plain	116
2-05.00	Clayton Valley	116
2-06.00	Ygnacio Valley	117
2-09.00	Santa Clara Valley	
2-09.01	East Bay Area	117
2-09.02	South Bay Area	119
2-10.00	Livermore Valley	120
	CENTRAL COASTAL REGION 3-00.00	
3-02.00	Pajaro Valley	120
3-04.00	Salinas Valley	121
3-07.00	Carmel Valley	123, 125, 126

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

An explanation of column headings follows:

The Lab and Sampler agency codes are as follows:

2400 - Santa Clara Valley Water Conservation District

5000 - U. S. Geological Survey

5050 - Department of Water Resources

5100 - Alameda County Flood Control and Water Conservation District

5112 - Sonoma County

5401 - Alameda County Water District

Time - Pacific Standard Time on a 24-hour clock.

Temp. - Water temperature in degrees Fahrenheit at the time of field sampling.

pH - Measurement of acidity or alkalinity of water.

EC - The electrical conductance in micromhos at 25° Celsius.

TDS - Gravimetric determination of total dissolved solids at 180° Celsius.

SUM - Total dissolved solids determined by addition of analyzed constituents.

TH - Total hardness.

NCH - Noncarbonate hardness.

The Mineral Constituents are as follows:

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

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
NORTH COASTAL REGION 1-00.00																		
UKIAH VALLEY 1-15.00																		
14N/12W-05K01 M		69	7.8	430	28	19	35	1.4	0	209	52	5.8	1.1		0.8		262	150
7-09-69	5050		7.4	600	1.40	1.60	1.52	0.04		3.42	1.08	0.16	0.02					0
1145	5050				30	36	33	1		73	23	0.3	1					
14N/12W-26K01 M		63	8.0	398	26	29	14	0.3	0	205	24	14	5.8		1.0		232	186
7-09-69	5050		7.0	410	1.30	2.42	0.61	0.01		3.36	0.50	0.39	0.09					18
1045	5050				30	56	14	0		77	12	9	2					
16N/12W-05D02 M		62	8.1	296	15	15	26	0.5	0	164	4.3	13	0.1		0.1		162	100
7-09-69	5050		6.9	295	0.75	1.25	1.13	0.01		2.69	0.09	0.37	0.00					0
1400	5050				24	40	36	0		85	3	12	0					
16N/12W-09Q01 M		75	8.5	387	26	18	36	0.5	3	237	11	7.8	0.1		0.1		227	141
7-09-69	5050		7.4	395	1.30	1.52	1.57	0.01	0.10	3.88	0.23	0.22	0.00					0
1315	5050				30	35	35	0	2	88	5	5	0					
SANEL VALLEY 1-16.00																		
12N/11W-02F01 M		63	8.3	336	35	20	9.4	1.6	0	200	17	4.2	2.4		0.2		179	171
7-08-69	5050		7.7	340	1.75	1.67	0.41	0.04		3.28	0.35	0.12	0.04					7
1630	5050				45	43	11	1		87	9	3	1					
13N/11W-18E01 M		61	8.4	365	26	24	17	1.1	5	191	17	11	6.8		2.8		187	163
7-09-69	5050		6.9	375	1.30	1.96	0.74	0.03	0.17	3.13	0.35	0.31	0.11					0
0900	5050				32	49	18	1	4	77	9	8	2					
13N/11W-30H01 M		60	7.9	420	34	28	11	0.9	0	187	41	9.8	22		0.2		231	202
7-09-69	5050		6.8	435	1.70	2.30	0.48	0.02		3.06	0.85	0.28	0.35					49
0945	5050				38	50	11	1		67	19	6	8					
ALEXANDER VALLEY 1-17.00																		
09N/08W-07Q01 M		80	8.5	581	4.1	0.7	130	5.8	12	299	0.5	18	1.2		0.5		402	13
7-08-69	5050		8.1	590	0.20	0.06	5.66	0.15	0.40	4.90	0.01	0.51	0.02					0
1315	5050				3	1	94	2	7	83	0	9	1					
09N/09W-01P01 M		60	8.2	333	28	24	8.0	0.5	0	194	18	4.3	4.2		0.1		150	167
7-08-69	5050		7.1	345	1.40	1.94	0.35	0.01		3.18	0.37	0.12	0.07					8
1400	5050				38	52	9	1		85	10	3	2					
10N/09W-26L01 M		64	8.6	568	30	57	11	0.5	18	310	32	8.0	19		0.1		307	309
7-08-69	5050		7.5	600	1.50	4.67	0.48	0.01	0.60	5.08	0.67	0.22	0.31					55
1440	5050				23	70	7	0	9	74	10	3	4					
11N/10W-28N01 M		62	8.2	318	32	16	9.2	1.3	0	181	17	4.9	0.5		0.3		161	148
9-08-69	5050		7.3	365	1.60	1.36	0.40	0.03		2.97	0.35	0.14	0.01					0
1540	5050				47	40	12	1		86	10	4	0					
SANTA ROSA VALLEY 1-18.00																		
06N/07W-18R01 M			8.5	758	56	36	59	1.3	20	310	42	43	40		0.2		413	289
7-07-69	5050		7.0	790	2.79	2.98	2.57	0.03	0.67	5.08	0.87	1.21	0.64					35
1315	5050				33	36	31	0	8	60	10	14	8					
06N/08W-03B01 M		67	8.1	458	29	26	20	1.5	0	141	12	55	27		0.1		285	178
7-07-69	5050		7.3	460	1.45	2.11	0.87	0.04		2.31	0.25	1.55	0.44					62
1445	5050				32	47	19	2		51	5	34	10					
07N/07W-15C01 M		66	8.2	251	15	9.8	23	4.2	0	152	4.6	5.5	0.2		0.0		169	78
7-08-69	5050		7.6	255	0.75	0.81	1.00	0.11		2.49	0.10	0.16	0.0					0
0900	5050				28	30	37	5		91	4	5	0					
07N/08W-05G01 M		69	8.1	552	30	29	33	5.0	0	159	15	53	68		0.0		392	196
7-07-69	5050		7.0	560	1.50	2.42	1.44	0.13		2.61	0.31	1.50	1.10					66
1645	5050				28	44	27	1		48	2	29	21					
07N/08W-18Q01 M		65	8.1	674	35	29	66	6.2	0	300	13	73	5.9		0.3		320	206
7-08-69	5050		7.5	700	1.75	2.37	2.87	0.16		4.92	0.27	2.06	0.10					0
1100	5050				24	35	40	1		67	4	28	1					
07N/08W-30P01 M		64	8.4	1040	70	55	55	2.2	0	216	46	144	126		0.1		638	401
7-07-69	5050		6.9	1100	3.49	4.52	2.39	0.06		3.54	0.96	4.06	2.03					224
1515	5050				33	43	23	1		33	9	38	20					
07N/09W-09F01 M		65	7.8	152	9.6	3.6	15	1.3	0	55	10	12	0.5		0.0		112	39
7-07-69	5050		6.8	160	0.48	0.30	0.65	0.03		0.90	0.21	0.34	0.01					0
1615	5050				33	21	45	1		62	14	23	1					
09N/10W-01C01 M		72	8.1	208	12	10	17	0.5	0	121	2.1	6.9	0.0		0.0		175	71
7-08-69	5050		7.3	200	0.60	0.82	0.74	0.01		1.98	0.04	0.19						0
1200	5050				28	38	34	0		90	2	8						

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
ANDERSON VALLEY 1-19.00																		
13N/14W-02L01 M		65	---	---														
9-12-69			6.7	220														
0945	5050																	
13N/14W-11A01 M		65	---	---														
9-12-69			7.0	258														
0925	5050																	
14N/14W-18R02 M		70	---	---														
9-11-69			5.9	140														
1115	5050																	
14N/14W-19B01 M		68	7.2	231	17	8.5	18	1.5	0	88	5.3	26	0.1		0.2		120	76
9-11-69	5050		6.5	262	0.85	0.70	0.78	0.04		1.44	0.11	0.73					120	4
1030	5050				36	30	33	2		63	5	32						
14N/14W-34G06 M		75	6.7	560	25	16	77	0.8	0	277	0.0	49	0.0		3.9		306	128
9-12-69	5050		7.6	545	1.25	1.32	3.35	0.02		4.54		1.38					307	0
0915	5050				21	22	56			77		23						
POINT ARENA 1-20.00																		
12N/16W-18K01 M		60	---	---														
9-11-69			5.6	421														
1740	5050																	
12N/17W-12L01 M		60	---	---														
9-11-69			6.1	125														
1610	5050																	
13N/16W-31M01 M		63	---	---														
9-11-69			6.3	465														
1535	5050																	
13N/17W-24D01 M		60	---	---														
9-11-69			6.3	250														
1545	5050																	
13N/17W-25H01 M		63	---	---														
9-11-69			6.6	420														
1610	5050																	
FORT BRAGG TERRACE 1-21.00																		
17N/17W-30F01 M		63	6.8	700	33	20	68	2.1	0	29	18	169	40		0.0		386	165
9-11-69	5050		5.9	710	1.65	1.64	2.96	0.05		0.48	0.37	4.77	0.64				364	141
1310	5050				26	26	47	1		8	6	76	10					
17N/17W-30M01 M		60	---	---														
9-11-69			6.5	355														
1350	5050																	
18N/17W-07K01 M		64	---	---														
9-11-69			5.8	192														
1125	5050																	
18N/17W-19D01 M		56	---	258			31					51	22					34
9-11-69	5050		5.6	265			1.35					1.44	0.35					34
1215	5050						52					55	13					
19N/17W-20N01 M		60	---	---														
9-11-69	5050		6.3	220														
19N/17W-30G01 M		63	---	---														
9-11-69			5.8	320														
1240	5050																	
19N/17W-30Q01 M		57	---	---														
9-11-69			6.6	390														
1100	5050																	
SAN FRANCISCO BAY REGION 2-00.00																		
PETALUMA VALLEY 2-01.00																		
03N/06W-01Q01 M		70	---	1260			234					150						
8-05-69	5050		7.7	1300			10.18					4.23						
1400	5050																	
03N/06W-03C01 M		70	---	3960			338					1160			0.4			
8-05-69	5050		7.4	4000			14.70					32.72						
1545	5050																	
03N/06W-11B01 M		69	---	1850			310					338						
8-05-69	5050		7.8	1800			13.48					9.53						
1445	5050																	

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
PETALUMA VALLEY 2-01.00 (Continued)																		
03N/06W-16H01 M		70	---	179								14						
8-05-69	5050		6.0	165								0.39						
1130	5050																	
03N/06W-18M01 M		64	---	540								39						
8-05-69	5050		6.7	560								1.10						
0915	5050																	
03N/07W-14F01 M		65	---	601								62						
8-05-69	5050		7.5	610								1.75						
1000	5050																	
04N/06W-08E01 M		68	8.5	927	36	64	78	0.6	0	487	30	48	33		2.2		570	355
8-15-69	5050		7.9	1100	1.80	5.29	3.39	0.02		7.98	0.62	1.35	0.53					0
1045	5050				17	50	32	1		76	6	13	5					
04N/06W-21Q01 M		72	---	1040			212					145			0.9			
8-07-69	5050		8.0	1025			9.22					4.09						
0830	5050																	
04N/06W-33R01 M		69	---	8670								2810						
8-05-69	5050		7.2									79.24						
1630	5050																	
05N/06W-30D01 M		66	---	874								87			0.6			
8-07-69	5050		8.2	860								2.45						
1245	5050																	
05N/07W-20L03 M		67	8.2	1210	140	16	88	1.7	0	241	72	225	44		0.0		777	418
8-07-69	5050		7.1	1200	6.99	1.36	3.85	0.04		3.95	1.50	6.35	0.71					220
1130	5050				57	12	31	0		32	12	51	5					
05N/07W-26E01 M		67	---	754			61					79						
8-07-69	5050		7.4	750			2.65					2.23						
1215	5050																	
05N/07W-34E02 M		68	---	847								67						
8-07-69	5050		8.4	820								1.89						
1100	5050																	
NAPA VALLEY 2-02.01																		
03N/03W-18G01 M		67	---	929			82					155	10		0.2			
7-11-69	5050		7.3	1100			3.57					4.37	0.16					
1415	5050																	
03N/03W-18G02 M		66	---	1170								162	56		0.1			
7-11-69	5050		7.4	1300								4.57	0.90					
1345	5050																	
04N/04W-02L01 M		66	---	748								93			0.1			
7-10-69	5050		6.8	775								2.62						
1445	5050																	
04N/04W-05C01 M		70	---	290								29	20		0.0			
7-11-69	5050		6.9	295								0.82	0.32					
1115	5050																	
04N/04W-05D02 M		71	---	748								85						
7-11-69	5050		7.3	760								2.40						
1100	5050																	
04N/04W-12M01 M		68	---	924								124						
7-10-69	5050		7.0	960								3.50						
1600	5050																	
04N/04W-13E01 M		65	---	2540								476	125		0.0			
7-10-69	5050		7.2	2700								13.43	2.01					
1615	5050																	
04N/04W-14C02 M		69	---	1440								392						
7-10-69	5050		7.2	1600								9.28						
1545	5050																	
05N/04W-09Q02M		64	---	470								34						
7-11-69	5050		7.6	450								0.96						
0745	5050																	
05N/04W-11F03 M		65	8.0	675	17	8.6	112	5.1	0	220	0.8	106	0.2		2.4		414	78
7-10-69	5050		7.5	675	0.85	0.75	4.87	0.13		3.60	0.02	2.99	0.00					0
1330	5050				13	12	74	1		54	1	45	0					
05N/04W-15E01 M		64	---	389								31			0.1			
7-11-69	5050		7.2	400								0.87						
0700	5050																	
05N/04W-20R02 M		67	8.0	681	30	17	80	1.2	0	144	18	99	53		0.1		417	144
7-11-69	5050		6.9	700	1.50	1.38	3.48	0.03		2.36	0.37	2.79	0.85					26
1000	5050				23	22	54	1		37	6	44	13					

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
NAPA VALLEY 2-02.01 (Continued)																		
05N/04W-21P02 M		69	---	2300								442						
7-11-69	5050		7.8	2500								12.46						
0930	5050																	
05N/04W-22M01 M		74	---	569								32						
7-11-69	5050		7.5	580								0.90						
0900	5050																	
05N/04W-22M02 M		72	7.6	230	10	6.6	24	6.1	0	75	24	13	7.3		0.1		229	52
7-11-69	5050		6.8	235	0.50	0.54	1.04	0.16		1.23	0.50	0.37	0.12					0
0845	5050				23	24	46	7		55	23	17	5					
05N/04W-29H01 M		69	---	361								26			0.0			
7-11-69	5050		6.8	365								0.73						
1020	5050																	
06N/04W-06P01 M		67	7.9	361	18	26	15	1.0	0	137	40	12	19		0.0		243	153
7-10-69	5050		6.8	360	0.90	2.16	0.65	0.02		2.24	0.83	0.34	0.31					41
1130	5050				24	58	17	1		61	22	9	8					
06N/04W-15Q01 M		70	---	239			28					6.7	2.0					
7-10-69	5050		7.0	245			1.22					0.19	0.03					
1215	5050																	
09N/07W-25N01 M		80	7.9	924	12	3.9	169	12	0	191	1.2	187	20		11		599	46
7-10-69	5050		7.6	960	0.60	0.32	7.35	0.31		3.13	0.02	5.28	0.03					0
1015	5050				7	4	86	3		37	1	62	0					
SONOMA VALLEY 2-02.02																		
04N/05W-14D02 M		64	---	967								79						
8-07-69	5050		7.4	950								2.23						
1540	5050																	
05N/05W-18D02 M		64	8.1	519	28	23	44	1.9	0	188	27	37	38		0.2		348	166
8-08-69	5050		6.8	525	1.40	1.92	1.91	0.05		3.08	0.56	1.04	0.61					12
0830	5050				27	36	36	1		58	11	20	11					
05N/05W-20R01 M		62	---	811			198					49			4.4			
8-07-69	5050		8.4	800			8.61					1.38						
1445	5050																	
05N/06W-12F01 M		66	---	420								33			0.7			
8-08-69	5050		6.8	430								0.93						
0945	5050																	
05N/06W-25P02 M		64	---	540								23			1.3			
8-07-69	5050		8.3	540								0.65						
1330	5050																	
06N/06W-23M02 M		66	8.2	491	13	8.4	69	14	0	142	1.2	79	0.1		1.4		336	67
8-08-69	5050		7.6	490	0.65	0.69	3.00	0.36		2.33	0.02	2.23	0.00					0
1030	5050				14	15	64	7		51	1	48	0					
06N/06W-26E01 M		68	---	412								54		1.4	2.0			
8-15-69	5050		8.2	420								1.52						
0900	5050																	
SUISUN-FAIRFIELD VALLEY 2-03.00																		
03N/01E-04B01 M		88	---	1340								244			0.8			
7-16-69	5050		8.1	1400								6.88						
1450	5050																	
03N/01E-22F02 M		74	8.2	1750	37	31	317	3.0	0	516	72	259	40		4.3		1030	220
7-16-69	5050		8.1	1750	1.85	2.55	13.79	0.08		8.46	1.50	7.31	0.64					0
1530	5050				10	14	76	0		47	8	41	4					
04N/01W-33A01 M		65	8.5	3530	30	48	662	4.7	0	478	153	826	2.3		18		1980	275
7-22-69	5050		7.7	4000	1.50	3.99	28.80	0.12		7.83	3.18	23.30	0.14					0
1100	5050				4	12	84	0		23	9	68	0					
04N/01E-08F01 M		73	---	976								157			0.9			
7-16-69	5050		7.3	950								4.43						
1430	5050																	
04N/02W-04D01 M		65	---	1360								67			1.3			
7-16-69	5050		7.4	1425								1.89						
1030	5050																	
04N/02W-05Q02 M		67	---	1100								112			0.6			
7-16-69	5050		7.0	1225								3.16						
1015	5050																	
04N/02W-09H01 M		65	---	3400								1050			5.6			
7-15-69	5050		8.0	3500								29.62						
0915	5050																	

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SUISUN-FAIRFIELD VALLEY 2-03.00 (Continued)																		
04N/02W-18M01 M		65	---	1030								106			0.7			
7-16-69	5050		7.4	1200								2.99						
0830	5050																	
04N/03W-13G02 M		72	8.3	699	52	26	62	1.5	0	238	100	48	2.5		0.6		400	236
7-16-69	5050		7.4	775	2.59	2.13	2.70	0.04		3.90	2.08	1.35	0.04					41
0900	5050				34	29	36	1		53	28	18	1					
05N/01W-25R01 M		68	8.2	1710	113	36	180	0.8	0	243	13	432	13		0.9		968	432
7-16-69	5050		7.3	1700	5.64	2.99	7.83	0.02		3.98	0.27	12.19	0.21					233
1600	5050				34	18	47	1		24	2	73	1					
05N/01W-28P01 M		--	8.1	756	69	27	54	1.4	0	294	10	94	14		0.4		395	285
7-16-69	5050		7.8	775	3.44	2.25	2.35	0.04		4.82	0.21	2.65	0.22					44
1700	5050				42	28	29	1		61	3	34	2					
05N/01W-30H01 M		70	8.0	979	28	22	149	0.7	0	247	24	170	26		2.5		530	160
7-22-69	5050		7.5	1190	1.40	1.80	6.48	0.02		4.05	0.50	4.80	0.42					0
1430	5050				14	18	67	1		41	5	49	5					
05N/01W-30J01 M		68	8.0	2090	50	41	322	1.4	0	209	40	556	8.2		6.3		1540	296
7-22-69	5050		7.3	2500	2.50	3.41	14.01	0.04		3.42	0.83	15.68	0.13					125
1345	5050				13	17	70	0		17	4	78	1					
05N/02W-21P03 M.		66	8.4	882	70	38	70	0.4	0	379	63	62	24		1.3		485	333
7-15-69	5050		7.2	975	3.49	3.16	3.04	0.01		6.21	1.31	1.75	0.39					22
0745	5050				36	33	31	0		64	14	18	4					
05N/02W-34N01 M		70	---	1540								101			5.5			
7-22-69	5050		7.5	1990								2.85						
0845	5050																	
05N/02W-34P04 M		69	---	1120								40			1.6			
7-16-69	5050		7.6	1200								1.13						
1730	5050																	
PITTSBURG PLAIN 2-04.00																		
02N/01E-07R02 M		68	8.1	3320	166	110	388	14	0	386	613	551	1.6		0.7		2000	867
1-17-69	5050		8.0	3100	8.28	9.04	16.88	0.36		6.33	12.76	15.54	0.02					551
1330	5050				24	26	49	1		18	36	45	1					
02N/01E-18D01 M		71	---	1020								134	22					
8-04-69	5050		7.8	1025								3.78	0.35					
1515	5050																	
02N/01W-09D01 M		62	---	2830								653	12					
8-08-69	5050		7.6	2750								18.42	0.19					
1345	5050																	
02N/01W-12P02 M		73	---	2260								436	0.6					
8-04-69	5050		7.9	2300								12.30	0.01					
1550	5050																	
CLAYTON VALLEY 2-05.00																		
01N/01W-04A01 M		69	8.6	579	39	40	28	0.2	4	265	52	25	9.2		0.4		352	264
7-31-69	5050		7.3	590	1.95	3.32	1.22	0	0.13	4.34	1.08	0.70	0.15					40
1315	5050				30	51	19	0	2	68	17	11	2					
02N/01W-30J01 M		72	---	933								55						
7-31-69	5050		7.4	1050								1.55						
1400	5050																	
02N/01W-30K01 M		--	---	1130								78			1.2			
7-31-69	5050		7.4	1300								2.20						
1420	5050																	
02N/01W-31D01 M		--	---	1030								114	54					
7-30-69	5050		7.2	1050								3.22	0.87					
1645	5050																	
02N/02W-13P01 M		67	8.6	965	39	36	109	1.2	1	262	56	142	17		0.3		541	246
7-31-69	5050		7.4	990	1.95	2.97	4.74	0.03	0.03	4.29	1.16	4.00	0.27					28
1100	5050				20	31	49	0	0	44	12	41	3					
02N/02W-26B01 M		65	---	953								130			1.2			
7-31-69	5050		7.9	1000								3.67						
1030	5050																	
02N/02W-36J01 M		69	---	2650								400	174					
7-31-69	5050		7.1	1225								11.28	2.81					
1230	5050																	

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
YGNACIO VALLEY 2-06.00																		
01N/01W-07K01 M		--	7.9	1990	60	67	289	1.9	0	251	560	175	21		1.1		1380	425
7-10-69	5050		7.3	2400	2.99	5.50	12.57	0.05		4.11	11.66	4.94	0.34					219
1400	5050				14	26	60	0		20	55	23	2					
01N/01W-29G01 M		--	7.9	1880	54	71	242	1.3	0	288	253	320	15		1.2		1150	427
7-30-69	5050		7.3	2300	2.69	5.84	10.53	0.03		4.72	5.27	9.03	0.24					191
1450	5050				14	31	55	0		25	27	47	1					
01N/02W-11N01 M		--	---	1090								92	38					
7-30-69	5050		7.4	1300								2.60	0.61					
1300	5050																	
01N/02W-13P01 M		65	---	1080								136	2.3		1.1			
7-30-69	5050		7.1	1325								3.84	0.04					
1330	5050																	
01N/02W-14Q01 M		--	7.7	2240	59	45	365	4.2	0	554	80	408	18		12		1320	332
8-11-69	5050		7.5	2700	2.94	3.69	15.88	0.11		9.08	1.66	11.51	0.29					0
1830	5050				13	16	70	1		40	7	51	2					
02N/02W-36E01 M		--	7.8	2530	177	117	187	1.4	0	453	323	370	149		0.8		1570	924
2-25-69	5050		---	---	8.83	9.63	8.13	0.03		7.42	6.72	10.44	2.40					553
1030	5050				33	36	31	0		31	28	39	2					
02N/02W-36E01 M		--	---	1080							90	130	39		0.4			
7-30-69	5050		7.3	3000							1.87	3.67	0.63					
1600	5050																	
02N/02W-36E80 M		--	7.5	1200	89	62	67	0.7	0	391	70	132	65		0.4		542	479
2-25-69	5050		---	---	4.44	5.13	2.91	0.02		6.41	1.46	3.72	1.05					158
1115	5050				36	41	23	0		51	18	29	2					
02N/02W-36E81 M		--	6.9	594	36	23	38	3.9	0	92	117	13	78		0.2		392	185
2-26-69	5050		---	---	1.80	1.90	1.65	0.09		1.51	2.44	0.37	1.26					110
1500	5050				33	35	30	2		30	45	2	23					
02N/02W-36E82 M		--	8.0	1390	97	72	92	5.4	0	480	86	174	11		0.9		825	539
3-03-69	5050		---	---	4.84	5.93	4.00	0.12		7.87	1.79	4.91	0.10					30
1030	5050				33	40	26	1		53	13	33	1					
EAST BAY AREA BAY PLAIN 2-09.01																		
01S/04W-04A01 M		--	8.0	1430	88	60	130	1.3	0	317	122	244	23		0.1		884	467
8-18-69	5050		---	---	4.39	4.94	5.66	0.03		5.20	2.54	6.88	0.37					207
	5100				28	33	38	1		35	17	46	2					
02S/03W-28G01 M		--	---	820								131						
8-19-69	5050		---	---								3.70						
	5100																	
02S/04W-12R01 M		--	8.0	390	20	8.5	44	3.8	0	141	3.4	42	0.2		0.1		182	85
8-19-69	5050		---	---	1.00	0.70	1.91	0.10		2.31	0.07	1.18	0.00					0
	5100				29	19	51	1		65	2	33	0					
02S/04W-25A01 M		--	---	808								89						
8-19-69	5050		---	---								2.51						
	5100																	
03S/02W-07J01 M		--	7.2	855	60	37	74	2.4	0	283	93	66	46		0.4		529	304
8-19-69	5050		---	---	2.99	3.08	3.22	0.06		4.64	1.94	1.86	0.74					72
	5100				32	33	34	1		51	21	20	8					
03S/02W-32D02 M		--	8.6	778	36	9.5	125	2.7	4	266	54	85	0.1		0.5		473	129
8-19-69	5050		---	---	1.80	0.78	5.44	0.07	0.13	4.36	1.12	2.40	0.00					0
	5100				22	10	67	1	2	54	14	30	0					
EAST BAY AREA ABOVE HAYWARD FAULT 2-09.01																		
04S/01W-07R05 M		--	---	1760								412						
7-09-69	5050		---	---								11.62						
	5401																	
04S/01W-21P06 M		--	7.9	570	37	26	44	2.0	0	201	62	42	8.0		0.7		316	198
7-07-69	5050		---	---	1.85	2.12	1.91	0.05		3.29	1.29	1.18	0.13					33
	5401				31	36	32	1		56	22	20	2					
04S/01W-34R02 M		--	---	585								38						
7-01-69	5050		---	---								1.07						
	5401																	
EAST BAY AREA NEWARK AQUIFER 2-09.01																		
04S/01W-18C02 M		--	---	896								86						
7-09-69	5050		---	---								2.43						
	5401																	

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
EAST BAY AREA NEWARK AQUIFER 2-09.01 (Continued)																		
04S/01W-19J07 M		--	8.2	880	62	46	46	2.9	0	147	68	155	15		0.5		456	320
7-01-69	5050		---	---	3.09	3.80	2.00	0.07		2.41	1.42	4.37	0.24					199
	5401				34	45	20	1		29	17	52	2					
04S/01W-29J06 M		--	---	1680								377						
7-02-69	5050		---	---								10.64						
	5401																	
04S/01W-33C01 M		--	7.4	1420	56	58	152	3.9	0	372	111	168	80		1.0		811	378
7-10-69	5050		---	---	2.79	4.76	6.61	0.10		6.10	2.31	4.74	1.29					73
	5401				20	33	46	1		42	16	33	9					
04S/02W-21B03 M		--	7.8	42400	2550	1490	5160	20	0	195	815	15900	0		0.3		29300	12500
6-04-68	5050		---	---	127.24	122.51	224.46	0.51		3.20	16.97	448.54						12300
1100	5050				27	26	47	0		1	4	95						
04S/02W-21B03 M		--	7.1	36400	2240	1420	4850	30	0	88	883	15400	0.7		0.4		23800	11400
7-09-69	5050		---	---	111.78	116.83	211.06	0.77		1.44	18.39	423.15	0.01					11300
	5401				25	27	48	0		1	4	95	0					
04S/02W-24F06 M		--	---	6800								2190						
7-10-69	5050		---	---								61.78						
	5401																	
04S/02W-26E02 M		--	8.5	843	60	14	93	3.6	9	313	50	60	5.0		0.3		471	208
6-04-68	5050		---	---	2.99	1.17	4.04	0.09	0.30	5.13	1.04	1.69	0.08					0
1315	5050				36	14	49	1	4	62	13	20	1					
04S/02W-26G02 M		--	8.1	2380	160	91	182	4.4	0	394	292	374	33		0.5		1410	774
6-04-68	5050		---	---	7.98	7.48	7.92	0.11		6.46	6.08	10.55	0.53					451
	5050				34	31	34	1		27	26	45	2					
04S/02W-34E01 M		--	7.6	22700	1940	1180	1280	20	0	120	355	8460	0.0		0.4		16100	9700
6-03-68	5050		---	---	96.81	97.00	55.68	0.51		1.97	7.39	238.66						9600
1730	5050				39	39	22	0		1	3	96						
04S/02W-34G01 M		--	8.5	2840	79	74	413	5.0	15	502	319	458	0.3		1.3		1640	503
6-03-68	5050		---	---	3.94	6.11	17.96	0.13	0.47	8.23	6.64	12.92	0.00					66
1845	5050				14	22	64	0	2	29	23	46	0					
04S/03W-13B03 M		--	---	36900								14400						
7-08-69	5050		---	---								406.22						
	5401																	
05S/01W-07K01 M		--	7.2	56000	1520	1780	12200	73	0	357	2810	24500	0.3		1.7		42000	11200
7-07-69	5050		---	---	75.85	146.29	531.40	1.87		5.85	58.53	691.14	0.00					10900
	5401				10	19	70	1		1	8	91	0					
05S/02W-02L01 M		--	7.9	46000	1640	1370	7390	25	0	320	2130	16500	0.0		0.2		29800	9750
5-28-68	5050		---	---	81.84	112.96	321.46	0.64		5.24	44.35	465.46						9490
1900	5050				16	22	62	0		1	9	90						
05S/02W-02L01 M		--	---	43900								17400						
7-09-69	5050		---	---								490.85						
	5401																	
05S/02W-12C01 M		--	7.9	50400	2440	1190	8500	25	0	311	1090	19700	0.0		0.2		35500	11000
5-20-68	5050		---	---	121.76	98.02	369.75	0.64		5.10	22.69	555.74						10700
1700	5050				21	17	62	0		1	4	95						
05S/02W-14E01 M		--	---	59500								24900						
7-08-69	5050		---	---								702.43						
	5401																	
05S/02W-17F02 M		--	---	34800								13000						
7-08-69	5050		---	---								366.73						
	5401																	
EAST BAY AREA LOWER AQUIFER 2-09.01																		
04S/01W-07P02 M		--	7.8	734	37	37	58	2.0	0	184	64	62	69		0.3		414	243
7-07-69	5050		---	---	1.85	3.01	2.52	0.05		3.02	1.33	1.75	1.11					92
	5401				25	41	34	0		43	18	24	15					
04S/01W-29L12 M		--	7.5	2420	213	109	74	3.7	0	70	58	726	8.6		0.4		1210	979
7-03-69	5050		---	---	10.63	8.93	3.22	0.09		1.15	1.21	20.48	0.14					922
	5401				46	39	14	1		5	5	89	1					
04S/01W-30E03 M		--	7.6	1710	137	58	100	2.7	0	90	61	474	5.5		0.4		881	580
7-02-69	5050		---	---	6.84	4.75	4.35	0.07		1.48	1.27	13.37	0.09					506
	5401				43	30	27	0		10	8	82	0					
04S/01W-31B03 M		--	---	3060								911						
7-03-69	5050		---	---								25.70						
	5401																	
04S/02W-03R01 M		--	---	545								19						
7-07-69	5050		---	---								0.54						
	5401																	

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
EAST BAY AREA LOWER AQUIFER 2-09.01 (Continued)																		
04S/02W-11Q10 M		--	---	591								48						
7-07-69	5050		---	---								1.35						
	5401																	
04S/02W-23F02 M		--	---	1240								232						
7-07-69	5050		---	---								6.54						
	5401																	
04S/02W-27L01 M		--	8.7	593	22	5.1	112	1.7	16	271	31	28	1.1		0.4		335	76
7-02-69	5050		---	---	1.10	0.42	4.87	0.04	0.53	4.44	0.65	0.79	0.02					0
	5401				17	7	76	0	8	69	10	12	1					
04S/03W-13B01 M		--	---	867								103						
7-08-69	5050		---	---								2.90						
	5401																	
04S/03W-13B02 M		--	---	553								26						
7-08-69	5050		---	---								0.73						
	5401																	
05S/01W-04D01 M		--	---	575								24						
7-01-69	5050		---	---								0.68						
	5401																	
05S/01W-08A03 M		--	8.5	656	22	4.4	130	1.7	12	323	44	22	0.3		0.7		385	73
7-07-69	5050		---	---	1.10	0.36	5.66	0.04	0.40	5.29	0.92	0.62	0.00					0
	5401				15	5	79	1	6	73	13	8	0					
05S/02W-01N01 M		--	8.3	426	5.3	1.7	100	0.9	7	202	34	14	0.2		0.3		250	20
7-09-69	5050		---	---	0.26	0.14	4.35	0.02	0.23	3.31	0.71	0.39	0.00					0
	5401				5	3	91	1	5	71	15	9	0					
05S/02W-14E02 M		--	---	447								13						
7-08-69	5050		---	---								0.37						
	5401																	
05S/02W-14E03 M		--	8.1	431	25	6.4	68	1.7	0	227	25	16	0.2		0.2		250	89
7-08-69	5050		---	---	1.25	0.53	2.96	0.04		3.72	0.52	0.45	0.00					0
	5401				26	11	62	1		79	12	9	0					
SOUTH BAY AREA 2-09.02																		
05S/01E-31R01 M		--	---	997								82						
7-17-69	5050		---	---								2.31						
1000	2400																	
06S/01E-22P01 M		--	---	707								62			1.1			
7-16-69	5050		---	---								1.75						
0915	2400																	
06S/01E-28A04 M		--	8.3	640	56	14	68	2.2	5	241	54	48	14		0.6		336	197
8-15-69	5050		---	---	2.79	1.15	2.96	0.06	0.17	3.95	1.12	1.33	0.23					0
0900	2400				40	17	42	1	2	58	16	21	3					
06S/01W-14E01 M		--	7.9	541	30	20	53	1.7	0	146	58	65	0.2		0.1		308	159
7-17-69	5050		---	---	1.50	1.68	2.31	0.04		2.39	1.21	1.83	0.00					39
1035	2400				27	30	42	1		44	22	34	0					
06S/01W-15N03 M		--	---	442								18						
7-23-69	5050		---	---								0.51						
1025	2400																	
06S/01W-19C02 M		--	---	555								30						
7-23-69	5050		---	---								0.85						
1000	2400																	
06S/01W-26D01 M		--	---	453								14						
7-31-69	5050		---	---								0.39						
1301	2400																	
06S/01W-31E01 M		--	---	567								26						
7-24-69	5050		---	---								0.73						
1210	2400																	
06S/02W-09Q02 M		60	8.1	585	46	18	60	1.6	0	243	62	34	1.0		0.2		325	187
7-28-69	5050		---	---	2.30	1.44	2.61	0.04		3.98	1.29	0.96	0.02					0
0920	2400				36	23	40	1		64	21	15	0					
06S/02W-29J02 M		72	---	725								49	32		0.0			
8-26-69	5050		---	---								1.38	0.52					
1250	2400																	
06S/02W-34M01 M		--	---	615								34						
7-28-69	5050		---	---								0.96						
1110	2400																	
07S/01E-20B80 M		--	---	774								44	15		0.2			
7-10-69	5050		---	---								1.24	0.24					
1015	2400																	

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SOUTH BAY AREA 2-09.02 (Continued)																		
07S/02E-18B01 M		--	---	1020								74						
7-10-69	5050		---	---								2.09						
1040	2400																	
07S/02E-19E01 M		--	8.2	699	32	40	66	0.8	0	305	50	43	23		0.2		377	243
7-10-69	5050		---	---	1.60	3.26	2.87	0.02		5.00	1.04	1.21	0.37					0
0930	2400				21	42	37	0		66	14	16	4					
07S/02E-33C04 M		--	---	878								86						
7-10-69	5050		---	---								2.43						
0955	2400																	
07S/01W-06B01 M		--	---	519								52						
7-24-69	5050		---	---								1.47						
1040	2400																	
08S/01E-16D01 M		--	8.2	310	22	15	20	1.7	0	144	25	11	2.7		0.2		193	118
8-08-69	5050		---	---	1.10	1.26	0.87	0.04		2.36	0.52	0.31	0.04					0
1000	2400				34	39	27	0		73	16	10	1					
08S/01E-27C02 M		--	---	714								21	28		0.3			
7-25-69	5050		---	---								0.59	0.45					
0930	2400																	
08S/02E-07F01 M		--	8.1	530	22	41	31	1.5	0	220	74	20	16		0.1		286	224
8-11-69	5050		---	---	1.10	3.38	1.35	0.04		3.61	1.54	0.56	0.26					44
	2400				19	58	23	0		61	26	9	4					
08S/02E-16E01 M		--	8.6	503	44	31	23	1.5	14	232	43	15	7.7		0.1		272	238
8-11-69	5050		---	---	2.20	2.56	1.00	0.04	0.47	3.80	0.90	0.42	0.12					26
1150	2400				38	44	17	1	8	67	16	7	2					
08S/01W-15B01 M		--	8.1	279	32	11	10	1.6	0	141	21	6.8	0.8		0.1		166	125
8-12-69	5050		---	---	1.60	0.90	0.44	0.04		2.31	0.44	0.19	0.01					9
0900	2400				54	30	15	1		78	16	6	0					
09S/02E-02C01 M		--	8.4	733	56	42	36	1.6	4	212	91	46	72		0.1		406	313
8-11-69	5050		---	---	2.79	3.46	1.57	0.04	0.13	3.47	1.90	1.30	1.16					133
1100	2400				35	44	20	1	2	44	24	16	14					
09S/03E-36F03 M		--	8.4	387	30	18	27	2.4	5	169	23	20	2.3		0.0		215	148
8-11-69	5050		---	---	1.50	1.46	1.17	0.06	0.17	3.00	0.48	0.56	0.04					0
1140	2400				36	35	28	1	4	71	11	13	1					
LIVERMORE VALLEY 2-10.00																		
02S/02E-35G02 M		--	8.1	3270	54	64	551	2.9	0	291	78	846	84		6.6		1890	397
8-18-69	5050		---	---	2.69	5.24	23.97	0.07		4.77	1.62	23.86	1.35					158
	5100				8	16	75	1		15	5	76	4					
03S/01E-08H03 M		--	8.2	940	49	60	58	1.5	0	334	64	100	18		0.8		542	368
8-18-69	5050		---	---	2.44	4.91	2.52	0.04		5.47	1.33	2.82	0.29					94
	5100				25	49	25	1		56	14	27	3					
03S/01E-11H01 M		--	8.5	861	53	56	54	1.8	11	321	41	100	18		0.4		572	365
8-18-69	5050		---	---	2.64	4.65	2.35	0.05	0.37	5.26	0.85	2.82	0.29					92
	5100				27	48	24	1	4	55	9	29	3					
03S/01E-15L01 M		--	8.4	502	40	24	26	1.2	0	190	40	36	10		0.1		275	199
8-18-69	5050		---	---	2.00	1.98	1.13	0.03		3.11	0.83	1.02	0.16					43
	5100				39	39	22	0		61	16	20	3					
03S/02E-08H01 M		72	7.7	721	44	43	45	1.2	0	256	29	62	61		0.5		445	287
8-18-69	5050		---	---	2.20	3.53	1.96	0.03		4.20	0.60	1.75	0.98					77
	5100				28	46	25	1		56	8	23	13					
03S/02E-29D01 M		--	8.1	677	59	27	52	1.5	0	272	51	49	24		0.3		390	258
8-18-69	5050		---	---	2.94	2.21	2.26	0.04		4.46	1.06	1.38	0.39					35
	5100				39	30	30	1		61	15	19	5					
03S/03E-19C01 M		--	8.4	1560	36	43	263	2.8	14	505	99	220	0.5		6.5		940	267
8-18-69	5050		---	---	1.80	3.53	11.44	0.07	0.47	8.28	2.06	6.21	0.01					0
	5100				11	21	68	0	3	49	12	36	0					
CENTRAL COASTAL REGION 3-00.00																		
PAJARO VALLEY 3-02.00																		
12S/02E-16J01 M		65	8.6	765	58	45	52		21	394		43	1.7		0.4			330
7-29-69	5050				2.89	3.70	2.26		0.70	6.46		1.21	0.03					0
	5050				33	42	25											
12S/02E-29L01 M		67	8.5	576	42	28	39		7	251		30	3.9					220
8-13-69	5050				2.09	2.31	1.70		0.23	4.11		0.85	0.06					2
	5050				34	38	28											
12S/03E-19M01 M		64	8.1	380	20	12	39		0	99		57	13					100
7-29-69	5050				1.00	0.99	1.70			1.62		1.61	0.21					19
	5050				27	27	46											

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
PAJARO VALLEY 3-02.00 (Continued)																		
13S/02E-01K01 M		68	8.0	265	14	7.9	27		0	74		32	20					68
7-30-69	5050				0.70	0.65	1.17			1.21		0.90	0.32					7
	5050				28	26	46											
13S/02E-07R01 M		76	8.3	976	27	9.5	173		0	255		128	1.3		0.0			107
8-05-68	5050				1.35	0.78	7.52			4.18		3.61	0.02					0
1410	5050				14	8	78											
13S/02E-10J01 M		72	8.4	559	28	16	64		5	152		97	4.2					138
7-30-69	5050				1.40	1.35	2.78		0.17	2.49		2.73	0.07					5
	5050				25	25	50											
13S/03E-04L01 M		65	8.2	280	12	9.1	32		0	91		39	7.8					68
7-30-69	5050				0.60	0.75	1.39			1.49		1.10	0.12					0
	5050				22	27	51											
SALINAS VALLEY 3-04.00																		
13S/02E-31K02 M		--	8.3	648	45	16	68		0	228		82	2.4		0.0			180
8-07-69	5050				2.24	1.35	2.96			3.74		2.31	0.04					0
1410	5050				34	21	45											
13S/02E-32A02 M		63	8.4	533	15	20	65	2	1	173	16	72	0.2		0.1		307	121
8-13-69	5050				0.75	1.64	2.83	0.05	0.03	2.83	0.33	2.03	0.00				277	0
1135	5050				14	31	54	1	1	54	6	39	0					
13S/03E-20B02 M		65	7.9	277	14	6.9	30		0	81		42	6.6					64
7-30-69	5050				0.70	0.57	1.30			1.33		1.18	0.11					0
	5050				27	22	51											
14S/01E-25K01 M		63	7.1	674	29	17	67		0	33		157	34		0.1			142
8-12-69	5050				1.45	1.38	2.91			0.54		4.43	0.55					115
1105	5050				25	24	51											
14S/02E-08M02 M		72	8.3	483	31	14	52		0	193		45	2.6		0.0			134
8-06-69	5050				1.55	1.12	2.26			3.16		1.27	0.04					0
0900	5050				31	23	46											
14S/02E-12Q01 M		67	8.2	547	60	17	33		0	244		40	8.5		0.0			220
8-12-69	5050				2.99	1.40	1.43			4.00		1.13	0.14					20
1110	5050				51	24	25											
14S/02E-13P01 M		67	7.9	1180	86	48	80	4	0	280	141	158	10		0.1		815	414
8-12-69	5050				4.29	3.95	3.48	0.10		4.59	2.93	4.45	0.16				665	184
1040	5050				36	33	29	1		38	24	37	1					
14S/02E-33H01 M		61	8.2	968	57	51	77	4	0	272	163	75	33		0.3		581	354
8-12-69	5050				2.84	4.19	3.35	0.10		4.46	3.39	2.11	0.53				594	131
	5050				27	40	32	1		42	32	20	5					
14S/02E-36G01 M		70	8.3	422	28	13	26	2	0	104	78	14	0.1		0.1		253	123
8-05-69	5050				1.40	1.07	1.13	0.05		1.70	1.62	0.39	0.00				213	38
1600	5050				38	29	31	1		46	44	11	0					
14S/03E-04E01 M		68	7.8	495	51	15	28	1	0	218	6	43	11		0.0		251	189
8-13-69	5050				2.54	1.23	1.22	0.02		3.57	0.12	1.21	0.18				263	10
1340	5050				51	25	24	0		70	2	24	3					
14S/03E-25L02 M		70	8.3	604	31	23	54	1	0	214	8	78	0.5		0.0		274	174
8-05-69	5050				1.55	1.89	2.35	0.02		3.51	0.17	2.20	0.01				301	0
1225	5050				27	32	40	0		60	3	37	0					
14S/03E-31F01 M		60	7.5	2310	165	91	193	8	0	204	553	336	14		0.5		1840	786
8-06-69	5050				8.23	7.48	8.39	0.20		3.34	11.51	9.47	0.22				1461	619
0835	5050				34	31	34	1		14	47	39	1					
15S/01E-26N02 M		70	8.2	976	46	22	112		0	133		200	10					206
8-12-69	5050				2.29	1.82	4.87			2.18		5.64	0.16					97
	5050				26	20	54											
15S/02E-24J01 M		64	8.0	704	40	18	71	3	0	126	30	99	65		0.0		458	176
8-01-69	5050				1.99	1.48	3.09	0.08		2.06	0.62	2.79	1.05				388	73
	5050				30	22	46	1		32	10	43	16					
15S/03E-13N01 M		66	7.8	923	72	38	69	3	0	280	172	62	2.6		0.2		602	336
8-14-69	5050				3.59	3.12	3.00	0.08		4.59	3.58	1.75	0.04				557	106
1130	5050				37	32	31	1		46	36	17	0					
15S/04E-26G01 M		67	7.8	461	36	16	34	2	0	182	6	42	16		0.0		259	155
8-07-69	5050				1.80	1.31	1.48	0.05		2.98	0.12	1.18	0.26				242	6
1345	5050				39	28	32	1		65	3	26	6					
16S/02E-01L01 M		--	8.1	517	24	10	63		0	111		72	6.4					102
7-30-69	5050				1.20	0.83	2.74			1.82		2.03	0.10					11
	5050				25	17	58											
16S/02E-02D03 M		--	8.2	836	46	18	100		0	201		168	3.8					191
7-30-69	5050				2.29	1.52	4.35			3.29		4.74	0.06					26
	5050				28	19	53											

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SALINAS VALLEY 3-04.00																		
16S/02E-05L02 M		61	7.5	2720	46	65	411	6	0	140	0	816	4.5		0.1		1420	382
8-12-69	5050				2.29	5.34	17.88	0.15		2.29		23.01	0.07				1418	267
	5050				9	21	70	1		9		91	0					
16S/03E-19L02 M		--	8.0	1480	174	36	99	10	0	340	295	165	1.3		0.0		965	584
7-31-69	5050				8.68	2.96	4.31	0.25		5.57	6.14	4.65	0.02				948	305
	5050				54	18	27	2		34	37	28	0					
16S/04E-03Q01 M		60	7.7	1710	128	65	155	6	0	242	471	174	0.9		0.4		1240	587
8-07-69	5050				6.39	5.34	6.74	0.15		3.97	9.81	4.91	0.01				1120	388
0900	5050				34	29	36	1		21	52	26	0					
16S/05E-17P01 M		69	8.2	1250	80	35	105	4	0	211	55	223	44		0.1		810	345
8-07-69	5050				3.99	2.88	4.57	0.10		3.46	1.14	6.29	0.71				650	172
1040	5050				35	25	40	1		30	10	54	6					
17S/05E-10Q01 M		67	8.1	645	64	24	43	2	0	219	115	34	1.5		0.2		377	259
8-05-69	5050				3.19	1.97	1.87	0.05		3.59	2.39	0.96	0.02				392	79
1545	5050				45	28	26	1		51	34	14	0					
17S/06E-07Q01 M		73	8.2	664	62	20	50		0	181		50	5.3		0.1			237
8-06-69	5050				3.09	1.64	2.17			2.97		1.41	0.08					88
1610	5050				45	24	31											
17S/06E-35F01 M		65	8.2	988	59	35	106		0	220		71	2.4		0.6			290
8-13-69	5050				2.94	2.85	4.61			3.60		2.00	0.04					110
1420	5050				28	28	44											
18S/06E-28J01 M		63	7.9	568	70	15	22		0	158		36	19		0.0			238
8-05-69	5050				3.49	1.26	0.96			2.59		1.01	0.31					108
1740	5050				61	22	17											
18S/07E-20K01 M		65	7.7	2940	332	153	160	6	0	254	1110	292	18		0.8		2820	1460
8-13-69	5050				16.57	12.58	6.96	0.15		4.16	23.11	8.23	0.29				2197	1252
1310	5050				46	35	19	0		12	65	23	1					
19S/07E-10P01 M		65	8.1	1650	148	81	74		0	259		285	51		0.1			703
8-07-69	5050				7.38	6.66	3.22			4.24		8.04	0.82					491
1405	5050				43	38	19											
19S/08E-33R01 M		65	8.0	3010	122	133	403	8	0	312	1020	285	32		1.8		2300	854
8-07-69	5050				6.09	10.94	17.53	0.20		5.11	21.24	8.04	0.52				2159	598
1220	5050				17	31	50	1		15	61	23	1					
20S/08E-05R01 M		65	7.8	1470	68	51	167	5	0	160	389	152	13		1.0		1050	380
8-06-69	5050				3.39	4.19	7.26	0.13		2.62	8.10	4.29	0.21				925	249
1345	5050				23	28	48	1		17	53	28	1					
20S/08E-17P01 M		65	7.9	1070	80	43	82	1	0	434	76	76	21		0.3		759	378
8-07-69	5050				3.99	3.54	3.57	0.02		7.11	1.58	2.14	0.34				593	22
1030	5050				36	32	32	0		64	14	19	3					
20S/08E-28Q01 M		--	8.4	777	66	25	54		8	145		99	19		0.3			268
7-24-69	5050				3.29	2.06	2.35		0.27	2.38		2.79	0.31					136
	5050				43	27	30											
20S/08E-29F01 M		--	8.5	3770	227	205	361		34	513		624	7.8		0.9			1410
7-24-69	5050				11.33	16.84	15.70		1.13	8.41		17.60	0.12					932
	5050				26	38	36											
20S/08E-29P01 M		--	8.0	2790	150	141	316		0	468		304	2.2		0.6			954
7-24-69	5050				7.48	11.58	13.75			7.67		8.57	0.03					570
	5050				23	35	42											
20S/08E-33R01 M		--	8.4	857	58	25	79		3	155		121	17		0.2			247
7-24-69	5050				2.89	2.04	3.44		0.10	2.54		3.41	0.27					115
	5050				35	24	41											
20S/08E-34M01 M		--	8.4	594	35	18	54		3	102		90	25		0.2			163
7-24-69	5050				1.75	1.50	2.35		0.10	1.67		2.54	0.40					74
	5050				31	27	42											
21S/08E-03B01 M		--	7.9	940	60	28	94	3	0	177	148	110	21		0.4		605	267
8-07-69	5050				2.99	2.30	4.09	0.08		2.90	3.08	3.10	0.34				552	122
1115	5050				32	24	43	1		31	33	33	4					
21S/08E-04C01 M		--	8.4	1290	102	45	116		10	222		166	0.4		0.2			441
7-24-69	5050				5.09	3.72	5.05		0.33	3.64		4.68	0.01					242
	5050				37	27	36											
21S/08E-05F03 M		--	8.2	2190	175	124	203		0	541		96	10		0.2			948
7-24-69	5050				8.73	10.21	8.83			8.87		2.71	0.16					504
	5050				31	37	32											
21S/08E-05P01 M		--	8.0	1670	105	89	158		0	467		56	17		0.1			628
7-24-69	5050				5.24	7.30	6.87			7.65		1.58	0.27					245
	5050				27	38	35											
21S/08E-05P02 M		--	8.1	1750	125	89	155		0	463		78	36		0.1			678
7-24-69	5050				6.24	7.30	6.74			7.59		2.20	0.58					298
	5050				31	36	33											

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SALINAS VALLEY 3-04.00																		
21S/08E-08C02 M		--	8.3	1440	111	74	124		0	488		48	39		0.2			581
7-24-69	5050				5.54	6.07	5.39			8.00		1.35	0.63					181
	5050				32	36	32											
21S/09E-07J01 M		65	8.0	2080	174	78	155	5	0	196	622	170	43		0.2		1590	755
8-06-69	5050				8.68	6.41	6.74	0.13		3.21	12.95	4.79	0.69				1344	594
1345	5050				39	29	31	1		15	60	22	3					
21S/09E-24L01 M		65	8.0	1930	184	87	166		0	294		104	37		0.5			818
8-06-69	5050				9.18	7.16	7.22			4.82		2.93	0.60					577
1250	5050				39	30	31											
22S/10E-34G01 M		67	8.1	786	38	31	71	3	0	190	110	84	2.6		0.5		458	224
8-06-69	5050				1.90	2.55	3.09	0.08		3.11	2.29	2.37	0.04				434	68
1135	5050				25	33	41	1		40	29	30	0					
23S/08E-04C01 M		71	7.9	349	31	13	22	2	0	144	23	21	9.0		0.0		194	130
8-13-69	5050				1.55	1.07	0.96	0.05		2.36	0.48	0.59	0.14				192	12
	5050				43	29	26	1		66	13	17	4					
23S/09E-18N01 M		70	8.2	591	51	26	26	4	0	146	48	74	28		0.0		373	232
8-13-69	5050				2.54	2.14	1.13	0.10		2.39	1.00	2.09	0.45				329	112
	5050				43	36	19	2		40	17	35	8					
CARMEL VALLEY 3-07.00																		
16S/01E-17J01 M		--	7.5	831	65	32	58	4	0	229		74	0.2		0.1			295
1-15-69	5050				3.24	2.65	2.52	0.10		3.75		2.09	0.00					107
	5050				38	31	30	1										
16S/01E-17J02 M		--	7.6	1160	111	37	75	6	0	252		100	0.0		0.1			430
1-15-69	5050				5.54	3.05	3.26	0.15		4.13		2.82						223
	5050				46	26	27	1										
16S/01E-17J02 M		--	7.9	1180	128	29	84	4	0	271	241	103	0.2		0.1		803	439
4-23-69	5050				6.39	2.38	3.65	0.10		4.44	5.02	2.90	0.00				723	217
	5050				51	19	29	1		36	41	23	0					
16S/01E-18E01 M		--	7.6	920	75	33	66	5	0	257		83	0.5		0.0			322
1-16-69	5050				3.74	2.69	2.87	0.13		4.21		2.34	0.01					111
	5050				40	29	30	1										
16S/01E-18E01 M		--	7.9	932	92	27	62	5	0	256	139	85	0.9		0.0		593	343
4-23-69	5050				4.59	2.22	2.70	0.13		4.19	2.89	2.40	0.01				537	133
	5050				48	23	28	1		44	30	25	0					
16S/01E-18E02 M		--	6.9	575	46	20	34	4	0	120		40	0.0		0.0			197
1-15-69	5050				2.29	1.64	1.48	0.10		1.97		1.13						99
	5050				41	30	27	2										
16S/01E-21A03 M		--	7.8	1560	156	47	121	5	0	221	464	128	2.3		0.2		1130	584
4-23-69	5050				7.78	3.86	5.26	0.13		3.62	9.66	3.61	0.04				1033	403
	5050				46	23	31	1		21	57	21	0					
16S/01E-21G01 M		--	7.6	846	80	27	58	4	0	224		56	1.7	0.6	0.1			310
1-16-69	5050				3.99	2.20	2.52	0.10		3.67		1.58	0.03					126
	5050				45	25	29	1										
16S/01E-21G02 M		--	7.8	903	113	14	64	4	0	266		64	0.2	0.4	0.0			342
1-16-69	5050				5.64	1.19	2.78	0.10		4.36		1.80	0.00					124
	5050				58	12	29	1										
16S/01E-21J01 M		--	7.4	617	52	21	40	3	0	150		46	0.0	0.3	0.0			215
1-16-69	5050				2.59	1.70	1.74	0.08		2.46		1.30						92
	5050				42	28	29	1										
16S/01E-21J01 M		--	7.6	644	57	20	41	3	0	164		42	0.0		0.0			226
1-16-69	5050				2.84	1.67	1.78	0.08		2.69		1.18						91
	5050				45	26	28	1										
16S/01E-22C02 M		--	7.4	827	79	35	40	4	0	122		48	0.0	0.3	0.0			342
1-16-69	5050				3.94	2.89	1.74	0.10		2.00		1.35						242
	5050				46	33	20	1										
16S/01E-22C02 M		--	7.9	769	82	26	36	4	0	125	216	42	0.2		0.0		516	313
4-22-69	5050				4.09	2.14	1.57	0.10		2.05	4.50	1.18	0.00				468	210
	5050				52	27	20	1		26	58	15	0					
16S/01E-22F01 M		--	7.4	918	56	30	76	5	0	121		138	0.3	0.3	0.0			263
1-16-69	5050				2.79	2.46	3.31	0.13		1.98		3.89	0.00					164
	5050				32	28	38	2										
16S/01E-22F01 M		--	7.8	515	47	17	30	3	0	127	104	28	0.2		0.0		319	188
4-22-69	5050				2.34	1.40	1.30	0.08		2.08	2.16	0.79	0.00				292	84
	5050				46	27	25	1		41	43	16	0					
16S/01E-22F03 M		--	7.6	692	44	18	67	4	0	139		68	0.1	0.3	0.0			186
1-16-69	5050				2.19	1.52	2.91	0.10		2.28		1.92	0.00					72
	5050				33	23	43	1										

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
CARMEL VALLEY 3-07.00																		
16S/01E-22F03 M		--	7.8	534	52	17	30	3	0	127	114	28	0.1		0.0		323	201
4-22-69	5050				2.59	1.40	1.30	0.08		2.08	2.37	0.79	0.00				307	97
	5050				48	26	24	1		40	45	15	0					
16S/01E-23E01 M		--	7.4	1020	81	34	82	5	0	242		93	0.0	0.6	0.1			342
1-16-69	5050				4.04	2.79	3.57	0.13		3.97		2.62						143
	5050				38	27	34	1										
16S/01E-23E01 M		--	7.5	1030	89	28	91	4	0	243	206	87	0.1		0.1		682	339
4-22-69	5050				4.44	2.30	3.96	0.10		3.98	4.29	2.45	0.00				625	140
	5050				41	21	37	1		37	40	23	0					
16S/01E-23J02 M		--	7.1	686	63	21	43	4	0	114		40	0.0		0.0			243
1-16-69	5050				3.14	1.71	1.87	0.10		1.87		1.13						149
	5050				46	25	27	2										
16S/01E-23L01 M		--	7.4	1240	134	58	67	6	0	138		76	0.3	0.3	0.0			573
1-16-69	5050				6.69	4.76	2.91	0.15		2.26		2.14	0.00					460
	5050				46	33	20	1										
16S/01E-23L01 M		--	7.6	493	51	16	22	3	0	97	132	14	4.2		0.0		327	194
4-22-69	5050				2.54	1.31	0.96	0.08		1.59	2.75	0.39	0.07				290	114
	5050				52	27	19	2		33	57	8	1					
16S/02E-29Q01 M		--	7.3	661	48	11	71	3	0	144		40	0.0		0.2			167
1-16-69	5050				2.39	0.94	3.09	0.08		2.36		1.13						49
	5050				37	14	48	1										
16S/02E-29Q01 M		--	7.8	720	64	10	70	2	0	179	151	37	0.0		0.2		466	202
4-22-69	5050				3.19	0.82	3.04	0.05		2.93	3.14	1.04					423	55
	5050				45	12	43	1		41	44	15						
16S/02E-33F01 M		--	8.0	869	95	23	51	3	0	264	114	72	10		0.0		559	332
4-22-69	5050				4.74	1.89	2.22	0.08		4.33	2.37	2.03	0.16				498	115
	5050				53	21	25	1		49	27	23	2					
16S/02E-33G01 M		--	7.1	817	76	31	47	4	0	279		68	1.2		0.0			316
1-16-69	5050				3.79	2.52	2.04	0.10		4.57		1.92	0.02					87
1655	5050				45	30	24	1										
16S/02E-33K01 M		55	7.5	918	88	24	71	4	0	309		74	0.5		0.1			317
1-16-69	5050				4.39	1.94	3.09	0.10		5.06		2.09	0.01					64
1610	5050				46	20	33	1										
16S/02E-33Q01 M		52	8.1	612	51	19	50	4	0	240		35	2.0		0.0			204
1-16-69	5050				2.54	1.53	2.17	0.10		3.93		0.99	0.03					7
1635	5050				40	24	34	2										
16S/02E-33Q01 M		--	7.9	464	48	16	21	2	0	168	50	27	1.6		0.0		270	185
4-22-69	5050				2.39	1.31	0.91	0.05		2.75	1.04	0.76	0.02				249	47
	5050				51	28	19	1		60	23	17	1					
16S/02E-35AS1 M		49	8.3	859	78	21	68	6	0	302		94	1.4		0.0			282
1-16-69	5050				3.89	1.74	2.96	0.15		4.95		2.65	0.02					34
1515	5050				44	20	34	2										
16S/01W-13L02 M		--	8.0	888	79	25	66	3	0	246	90	106	1.3		0.0		539	300
4-23-69	5050				3.94	2.05	2.87	0.08		4.03	1.87	2.99	0.02				492	98
	5050				44	23	32	1		45	21	33	0					
17S/02E-02J01 M		57	7.4	2900	302	79	258	5	0	462		355	0.2		0.2			1080
1-15-69	5050				15.07	6.51	11.22	0.13		7.57		10.01	0.00					701
1610	5050				46	20	34	0										
17S/02E-02J01 M		--	7.4	3020	334	79	258	4	0	478	783	381	0.1		0.2		2190	1160
4-22-69	5050				16.67	6.50	11.22	0.10		7.83	16.30	10.74	0.00				2075	768
	5050				48	19	32	0		22	47	31	0					
17S/02E-03F01 M		--	7.9	994	86	33	72	5	0	313		99	0.0		0.0		---	350
1-16-69	5050				4.29	2.71	3.13	0.13		5.13		2.79					449	93
	5050				42	26	30	1										
17S/02E-03F01 M		--	8.0	849	86	24	49	3	0	248	106	67	11		0.0		566	313
4-22-69	5050				4.29	1.97	2.13	0.08		4.06	2.21	1.89	0.18				468	110
	5050				51	23	25	1		49	26	23	2					
17S/02E-11R01 M		59	7.4	357	35	12	16	3	0	138		15	1.4		0.0			137
1-16-69	5050				1.75	0.98	0.70	0.08		2.26		0.42	0.02					24
1250	5050				50	28	20	2										
17S/03E-20C01 M		49	7.9	1330	121	41	103	6	0	403		127	3.8		0.0			472
1-16-69	5050				6.04	3.39	4.48	0.15		6.60		3.58	0.06					141
0945	5050				43	24	32	1										
17S/03E-21B01 M		--	7.9	1130	123	24	86	5	0	391		106	0.0		0.0			405
1-16-69	5050				6.14	1.95	3.74	0.13		6.41		2.99						84
1115	5050				52	16	31	1										
17S/03E-21H02 M		49	7.4	1200	105	45	92	5	0	369		110	0.0		0.0			449
1-16-69	5050				5.24	3.73	4.00	0.13		6.05		3.10						146
1115	5050				40	28	31	1										

TABLE E-2

TRACE ELEMENT ANALYSES OF GROUND WATER

(In milligrams per liter)

State Well Number	Date Sampled	Arsenic	Cadmium	Copper	Iron	Lead	Manganese	Selenium	Zinc
NORTH COASTAL REGION 1-00.00									
ANDERSON VALLEY 1-19.00									
14N/14W-34G06M	09-12-69	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.13
POINT ARENA 1-20.00									
12N/17W-12L01M	09-11-69	0.00	0.00	0.01	0.13	0.00	0.00	0.00	0.99
13N/16W-31M01M	09-11-69	0.00	0.00	0.03	0.04	0.01	0.00	0.00	0.12
FORT BRAGG TERRACE 1-21.00									
17N/17W-30F01M	09-11-69	0.00	0.00	0.03	0.01	0.00	0.02	0.00	0.08
19N/17W-30Q01M	09-11-69	0.00	0.00	0.01	0.13	0.00	0.00	0.00	0.14
CENTRAL COASTAL REGION 3-00.00									
CARMEL VALLEY 3-07.00									
16S/01E-17J01M	01-15-69				5.7		0.06		
16S/01E-17J02M	01-15-69				8.9		0.18		
16S/01E-18E01M	01-16-69						0.19		
	04-23-69				3.6				
16S/01E-18E02M	01-15-69						0.07		
16S/01E-21G01M	01-16-69	0.00					0.21		
16S/01E-21G02M	01-16-69	0.00					0.08		
16S/01E-21J01M	01-16-69	0.00					0.13		
16S/01E 22C02M	01-16-69	0.00					0.35		
16S/01E-22F01M	01-16-69	0.00					0.36		
	04-22-69				2.3				
16S/01E-22F03M	01-16-69	0.00					0.14		
16S/01E-23E01M	01-16-69	0.00					0.33		
16S/01E-23J02M	01-16-69						0.28		
16S/01E-23L01M	01-16-69	0.00					0.20		
16S/02E-29Q01M	01-16-69						0.00		
	04-22-69				2.1				
16S/02E-33F01M	04-22-69				0.01				
16S/02E-33G01M	01-16-69						0.00		
16S/02E-33K01M	01-16-69						0.15		
16S/02E-33Q01M	01-16-69						0.00		
16S/02E-35AS1M	01-16-69						0.00		
17S/02E-02J01M	01-15-69						0.00		
17S/02E-03F01M	01-16-69						0.00		
	04-22-69				0.01				
17S/02E-11R01M	01-16-69						0.00		
17S/03E-20C01M	01-16-69						0.14		
17S/03E-21B01M	01-16-69						0.00		
17S/03E-21H02M	01-16-69						0.04		

TABLE E-3

MISCELLANEOUS CONSTITUENTS IN GROUND WATER

State Well Number	Date	Constituents in Milligrams per Liter	
		Ortho Phosphate	Total Phosphate
CENTRAL COASTAL REGION 3-00.00			
CARMEL VALLEY 3-07.00			
16S/01E-17J02M	04-23-69	0.03	0.04
16S/01E-18E01M	04-23-69	0.03	0.15
16S/01E-21A03M	04-23-69	0.03	0.13
16S/01E-22C02M	04-23-69	0.01	0.04
16S/01E-22F01M	04-22-69	0.06	0.18
16S/01E-22F03M	04-22-69	0.02	0.07
16S/01E-23E01M	04-22-69	0.02	0.02
16S/01E-23L01M	04-22-69	0.05	0.12
16S/02E-29Q01M	04-22-69	0.02	0.21
16S/02E-33F01M	04-22-69	0.05	0.06
16S/02E-33Q01M	04-22-69	0.02	0.04
16S/01W-13L02M	04-23-69	0.17	0.19
17S/02E-02J01M	04-22-69	0.02	0.03
17S/02E-03F01M	04-22-69	0.03	0.04

Appendix F

WASTE WATER

INTRODUCTION

This appendix contains data on the quality, quantity, and use of waste water by 67 dischargers in the Central Coastal Area. Data are presented for the period October 1, 1968, through September 30, 1969. All data are analyzed by the Department of Water Resources unless otherwise indicated.

All dischargers are located in the California Regional Water Quality Control Board San Francisco Bay Region. Data collection was discontinued for the North Coast and Central Coast Regions.

The 67 dischargers released 634,196 acre-feet of waste water. Of this total, 62 dischargers released 622,660 acre-feet into a saline water body, and 11,530 acre-feet were released by 5 dischargers onto land or a watercourse. Eight dischargers reused 6,020 acre-feet of waste water for irrigation, cooling, and fire control.

FIGURE F-1

LOCATION OF WASTE DISCHARGERS
CENTRAL COASTAL AREA

Number	Discharger
11	City of Benicia
12	City of Burlingame
13	C and H Sugar Refinery
14	Central Contra Costa Sanitary District
15	Contra Costa Sanitary District No. 3
16	Contra Costa Sanitary District No. 7A
17	City of Concord
18	Crockett-Valona Sanitary District
19	East Bay Municipal Utility District
20	Estero Municipal Improvement District
21	Fairfield-Suisun Sanitary District
22	City of Hayward
23	Las Gallinas Valley Sanitary District
24	City of Livermore
25	City of Los Altos
26	Marin County Sanitary District No. 1
27	Marin County Sanitary District No. 5 (Main)
28	Marin County Sanitary District No. 6 (Ignacio)
29	Marin County Sanitary District No. 6 (Novato)
30	City of Martinez
31	Menlo Park Sanitary District
32	City of Mill Valley
33	City of Millbrae
34	Milpitas Sanitary District
35	City of Mountain View
36	Mountain View Sanitary District
37	Napa Sanitation District
38	North San Mateo County Sanitation District
39	Oro Loma Sanitary District
40	City of Pacifica, Sharp Park Plant
41	City of Pacifica, Linda Mar Plant
42	City of Palo Alto
43	City of Petaluma
44	City of Pinole
105	City of Pittsburg, Camp Stoneman Plant
106	City of Pittsburg, Montezuma Plant
45	City of Pleasanton
46	City of Redwood City
47	Richardson Bay Sanitary District
48	City of Richmond
49	Rodeo Sanitary District
50	Cities of San Carlos-Belmont
51	San Francisco International Airport
52	City and County of San Francisco, McQueen Plant
53	City and County of San Francisco, North Point Plant
54	City and County of San Francisco, Richmond-Sunset Plant
55	City and County of San Francisco, Southeast Plant
56	City of San Jose
57	City of San Leandro, Domestic and Industrial
58	City of San Mateo
59	San Pablo Sanitary District
60	San Rafael Sanitation District
61	Sausalito-Marin City Sanitary District
62	Shell Chemical Company, Pittsburg Plant
63	Sonoma Valley County Sanitation District
64	Cities of South San Francisco-San Bruno
65	Stege Sanitary District
66	City of Sunnyvale
67	Travis Air Force Base
68	Treasure Island, U. S. N.
69	Union Sanitary District, Newark Plant No. 1
70	Union Sanitary District Irvington Plant No. 2
71	Union Sanitary District, Alvarado Plant No. 3
72	Vallejo Sanitation and Flood Control District
73	Valley Community Services District
74	Yountville Veterans Home

FIGURE F-1 SHEET 2 OF 2

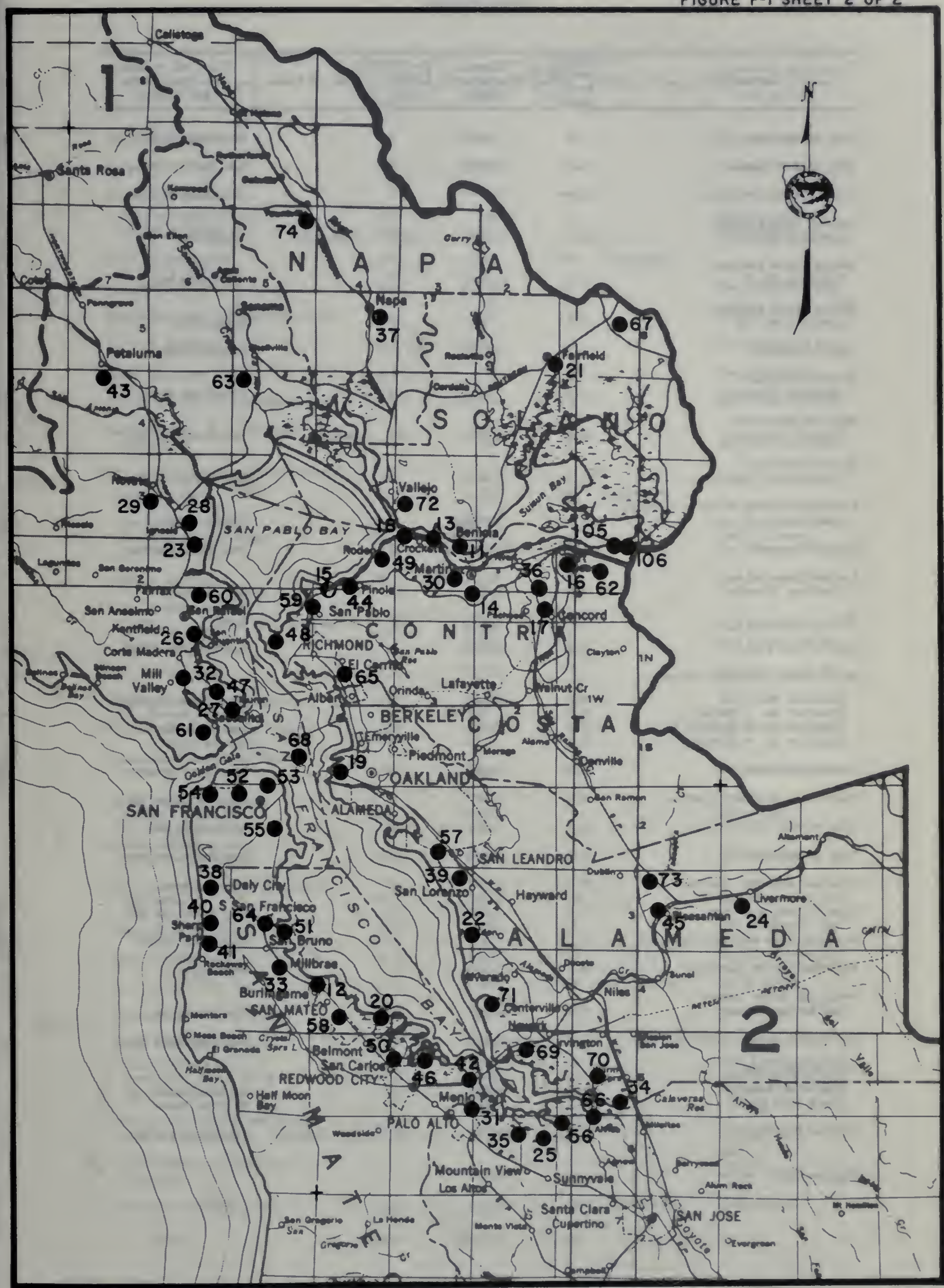

TABLE F-1

QUANTITY OF WASTE WATER DISCHARGED AND REUSED

CENTRAL COASTAL AREA

1969 WATER YEAR

Discharger	Average Discharge Rate (Mgd)	Volume Discharged (AF)	Portion Reused (AF)	Type of Reuse	Place of Disposal For Waste Water Not Reused
City of Benicia	0.7	780	0		Carquinez Strait
City of Burlingame	4.9	5,490	0		San Francisco Bay
C and H Sugar Refinery	44.4*	49,730	0		Carquinez Strait
Central Contra Costa Sanitary District	23.1	25,870	1,090	Irrigation	Suisun Bay
Contra Costa Sanitary District No. 3	1.0	1,120	0		San Pablo Bay
Contra Costa Sanitary District No. 7A	0.8	900	0		Suisun Bay
City of Concord	4.7	5,260	0		Walnut Creek
Crockett-Valona Sanitary District	0.2	220	0		Carquinez Strait
East Bay Municipal Utility District	85.6	95,870	790	Cooling	San Francisco Bay
Estero Municipal Improvement District	1.3	1,460	0		San Francisco Bay
Fairfield-Suisun Sewer District	3.9	4,370	0		Suisun Slough
City of Hayward	11.8	13,200	0		San Francisco Bay
Las Gallinas Valley Sanitary District	2.9	3,250	0		Miller Creek
City of Livermore	3.5	3,920	670	Irrigation	Land
City of Los Altos	1.8	2,020	0		San Francisco Bay
Marin County Sanitary District					
District No. 1	6.0	6,720	0		San Francisco Bay
District No. 5 (Main)	0.6	670	0		Raccoon Strait
District No. 6 (Ignacio)	< 0.1	30	0		San Pablo Bay
District No. 6 (Novato)	0.1	110	0		Novato Creek
City of Martinez	1.5	1,680	0		Carquinez Strait
Menlo Park Sanitary District	5.4	6,050	0		San Francisco Bay
City of Mill Valley	2.3	2,580	0		Richardson Bay
City of Millbrae	2.3	2,580	0		San Francisco Bay
Milpitas Sanitary District	2.8	3,140	0		Coyote Creek
City of Mountain View	7.1	7,950	0		San Francisco Bay
Mountain View Sanitary District	0.6	670	0		Carquinez Strait
Napa Sanitation District	6.7	7,500	0		Napa River
North San Mateo County Sanitation District	3.9	4,370	0		Pacific Ocean
Oro Loma Sanitary District	14.2	15,900	0		San Francisco Bay
City of Pacifica					
Linda Mar Plant	1.3	1,460	0		Pacific Ocean
Sharp Park Plant	1.0	1,120	0		Pacific Ocean
City of Palo Alto	13.0	14,560	50	Fire Control	San Francisco Bay

*Estimated

TABLE F-1 (Continued)

QUANTITY OF WASTE WATER DISCHARGED AND REUSED

CENTRAL COASTAL AREA

1969 WATER YEAR

Discharger	Average Discharge Rate (Mgd)	Volume Discharged (AF)	Portion Reused (AF)	Type of Reuse	Place of Disposal For Waste Water Not Reused
City of Petaluma	2.7	3,020	0		Petaluma River
City of Pinole	0.9	1,010	0		San Pablo Bay
City of Pittsburg					
Camp Stoneman Plant	0.6	670	0		New York Slough
Montezuma Plant	1.3	1,460	0		New York Slough
City of Pleasanton	0.9	1,010	1,010	Irrigation	
City of Redwood City	7.6	8,510	0		San Francisco Bay
Richardson Bay Sanitary District	0.2	220	0		Raccoon Strait
City of Richmond	10.2	11,420	0		San Francisco Bay
Rodeo Sanitary District	0.7	780	0		San Pablo Bay
Cities of San Carlos-Belmont	3.9	4,370	0		San Francisco Bay
San Francisco International Airport	0.8	900	0		San Francisco Bay
City and County of San Francisco					
McQueen Plant	1.0	1,120	1,120	Landscape Irrigation	
North Point Plant	66.4	74,370	0		San Francisco Bay
Richmond-Sunset Plant	21.8	24,420	0		Pacific Ocean
Southeast Plant	17.8	19,940	0		San Francisco Bay
City of San Jose	72.9	81,650	0		San Francisco Bay
City of San Leandro					
Domestic Plant	4.4	4,930	0		San Francisco Bay
Industrial Plant	4.3	4,820	0		San Francisco Bay
City of San Mateo	10.8	12,100	0		San Francisco Bay
San Pablo Sanitary District	7.3	8,180	0		San Pablo Bay
San Rafael Sanitation District	2.9	3,250	0		San Francisco Bay
Sausalito-Marin City Sanitary District	1.9	2,130	0		San Francisco Bay
Shell Chemical Company, Pittsburg Plant	12	13,440	0		Suisun Bay
Sonoma Valley County Sanitation District	2.6	2,910	0		Schell Slough
Cities of South San Francisco-San Bruno	10.2	11,420	0		San Francisco Bay
Stege Sanitary District	4.3	4,820	0		San Francisco Bay
City of Sunnyvale	12.9	14,450	0		San Francisco Bay
Travis Air Force Base	1.7	1,900	1,250	Irrigation	Union Creek
Treasure Island, U. S. N.	1.1	1,230	0		San Francisco Bay
Union Sanitary District					
Newark Plant No. 1	4.8	5,380	0		San Francisco Bay
Irvington Plant No. 2	4.8	5,380	0		San Francisco Bay
Alvarado Plant No. 3	1.8	2,020	0		San Francisco Bay
Vallejo Sanitation and Flood Control District	6.9	7,730	0		Carquinez Strait
Valley Community Services District	2.2	2,460	0		Alamo Canal
Yountville Veterans Home	0.2	220	40	Irrigation	Napa River
TOTAL	566.3	634,190	6,020		

TABLE F-2

ANALYSES OF WASTE WATER

Abbreviations

BOD	Biological oxygen demand
$CaCO_3$	Calcium carbonate
MBAS	Methylene blue active substances are the measure of detergents ABS and LAS
Mgd	Million gallons per day
mg/l	Milligrams per liter
ml/l	Milliliters per liter
NC	Noncarbonate hardness
NH_3	Ammonia
NH_3 + ORG	Ammonia plus organic nitrogen
NO_3	Nitrate (as nitrogen)
NO_2	Nitrite (as nitrogen)
ORG	Organic nitrogen
TDS	Gravimetric determination of total dissolved solids in milligrams per liter

TABLE F-2

ANALYSES OF WASTE WATER

PART I

Source	Date / Time (PST)	Type of Sample	Flow in mgd	pH Field / Lab	Specific conductance (micromhos at 25° C)	Mineral constituents, milligrams per liter / milliequivalents per liter: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Boron (B)	Fluoride (F)	Silica (SiO_2)	T.D.S. in mg/l	Hardness as $CaCO_3$ in mg/l: Total	Hardness as $CaCO_3$ in mg/l: N C	Percent Sodium
CENTRAL CONTRA COSTA SANITARY DISTRICT (Activated Sludge)	6-27-69 / 0800	24-Hour Composite	1.1	7.2 / 6.4	1000	26 / 1.30	24 / 1.94	116 / 5.13	9 / 0.23		0	156 / 2.56	74 / 1.54	154 / 4.34	43 / 0.69	0.6			580	162	34	60
CENTRAL CONTRA COSTA SANITARY DISTRICT (Primary)	6-27-69 / 0800	24-Hour Composite	24.2	7.3 / 7.2	1030	22 / 1.10	20 / 1.62	116 / 5.05	11 / 0.38		0	216 / 3.54	74 / 1.54	144 / 4.06	0.2 / 0.00	0.8			540	136	0	63
CONTRA COSTA SANITARY DISTRICT NO. 3	6-25-69 / 0800	24-Hour Composite	1.02	8.0 / 7.0	1040	28 / 1.40	27 / 2.24	83 / 3.61	11 / 0.28		0	342 / 5.60	84 / 1.75	85 / 2.40	0.3 / 0.00	0.9			509	182	0	48
CONTRA COSTA SANITARY DISTRICT NO. 7A	7- 2-69 / 0900	24-Hour Composite	0.85	7.2 / 7.0	1590	51 / 2.54	35 / 2.85	174 / 7.57	16 / 0.41		0	244 / 4.00	197 / 4.10	250 / 7.05	0.2 / 0.00	2.4			855	270	70	57
CITY OF CONCORD	6-27-69 / 1000	24-Hour Composite	4.83	8.5 / 8.7	1110	44 / 2.20	34 / 2.81	115 / 5.00	10 / 0.26		0	322 / 5.28	126 / 2.62	124 / 3.50	5.4 / 0.09	0.9			635	251	0	49
CROCKETT-VALONA SANITARY DISTRICT	6-26-69 / 1000	24-Hour Composite	0.26	7.1 / 7.2	1340	42 / 2.10	30 / 2.50	168 / 7.31	15 / 0.38		0	289 / 4.74	98 / 2.04	224 / 6.32	0.2 / 0.00	0.9			754	230	0	59
EAST BAY MUNICIPAL UTILITY DISTRICT 1/	10- -68	Monthly Average	75.9	— / 8.6		27.1	18.9	250	46.2				80	377						147		
	11- -68	Monthly Average	75.2	— / 6.7		40.7	16.6						90	436						171		
	12- -68	Monthly Average	82.4	— / 6.8		36.6	16.3							200						159		
	1- -69	Monthly Average	113.3	— / 8.8		29.8	13.2						72	128						130		
	2- -69	Monthly Average	130.5	— / 6.9																		
	3- -69	Monthly Average	86.1	— / 8.8		25.6	11.7							178						113		
	4- -69	Monthly Average	82.2	— / 8.8		27.5	8.6						110	340						104		
	5- -69	Monthly Average	73.2	— / 6.8		26.0	12.0						120	212						112		
	6- -69	Monthly Average	73.2	— / 8.7																		
	7- -69	Monthly Average	77.1	— / 8.4		24	15							251						122		
	8- -69	Monthly Average	81.8	— / 6.4		23	15							242						122		
	9- -69	Monthly Average	79.4	— / 6.2		25	13							243						116		
CITY OF LIVERMORE 2/	10- -68	Monthly Average	2.9	— / 7.6	1158	42	29	126	7.0	0.44	0	17		235		1.4	0.30		841			54
	11- -68	Monthly Average	2.5	— / 6.6	1000									233					790			
	12- -68	Monthly Average	3.1	— / 6.9	1148									251					755			
	1- -69	Monthly Average	3.4	— / 7.3	1013	43	29	158	13	6.1	0	31		227		1.6	2.1		783			57
	2- -69	Monthly Average	4.1	— / 7.4	960	50	18	136	7	1.4	0	56		184		1.5	4.1		773			58
	3- -69	Monthly Average	3.8	— / 7.4	1143	45	34	174	14.5	0.41	0	45		236		1.8	6.2		939			58
	4- -69	Monthly Average	3.6	— / 7.1	1225	64	22	169	7.3	0.13	0	31		256		2.1	0.5		840			59
	5- -69	Monthly Average	3.1	— / 7.1	1165	36	35	159	8.8	0.43	0	38		218		1.6	0.3		778			59
	6- -69	Monthly Average	3.5	— / 7.2	980	39	23	163	6.8	0.03	0	10		208		1.4	0.3		710			69
	7- -69	Monthly	3.8	— / 7.8	1025	38	27	156	6.5	0	0	78		196		1.4	0.3		755			
	7- 2-69 / 0000	24-Hour Composite	3.9	7.4 / 7.2	1050	17 / 0.85	39 / 3.21	142 / 6.18	11 / 0.28		0	82 / 1.34	61 / 1.27	190 / 5.36		1.6			730	203	136	59
	8- -69	Monthly Average	3.9	— / 7.4	1003	33	31	146	3.3	0	0	102		181		13	0.3		731			60
	9- -69	Monthly Average	3.9	— / 7.1	996	38	27	137	9.7	0.06	0	83		154		1.3	0.1		730			58
CITY OF FINOLE	6-25-69 / 1130	24-Hour Composite	0.7	8.0 / 6.9	747	26 / 1.30	13 / 1.06	71 / 3.09	12 / 0.31		0	243 / 3.88	86 / 1.79	48 / 1.35	0.2 / 0.00	0.7			417	118	0	54
CITY OF PITTSBURG	7- 2-69 / 1300	24-Hour Composite	1.7	6.8 / 8.4	1220	49 / 2.44	26 / 1.94	150 / 6.52	15 / 0.38		0	136 / 2.23	93 / 1.84	218 / 3.07	0.2 / 0.00	2.9			797	219	107	58
CITY OF PLEASANTON	7- 1-69 / 0900	24-Hour Composite	0.9	8.1 / 6.9	1090	47 / 2.34	39 / 3.19	157 / 6.83	14 / 0.36		0	523 / 8.57	67 / 1.39	100 / 2.82	5.0 / 0.08	0.7			655	277	0	54
CITY OF RICHMOND	6-24-69 / 1500	24-Hour Composite	5.5	8.0 / 8.5	1770	35 / 1.75	20 / 1.63	178 / 7.74	10 / 0.26		0	326 / 5.34	238 / 4.96	224 / 6.32	0.4 / 0.01	0.6			947	169	0	68
RODEO SANITARY DISTRICT	6-26-69 / 0900	24-Hour Composite	0.6	7.2 / 6.8	1890	52 / 2.59	48 / 3.92	244 / 10.61	14 / 0.36		0	318 / 5.21	123 / 2.56	371 / 10.46	0.2 / 0.00	0.3			1040	326	65	61
SAN PABLO SANITARY DISTRICT	6-24-69 / 1130	24-Hour Composite	8.2	8.1 / 6.7	1030	17 / 0.85	9.6 / 0.79	168 / 7.31	15 / 0.38		0	205 / 3.36	135 / 2.81	126 / 3.55	0.2 / 0.00	0.4			601	82	0	78
VALLEY COMMUNITY SERVICES DISTRICT	6-30-69 / 1700	24-Hour Composite	2.0	8.1 / 7.3	1700	47 / 2.34	102 / 8.35	126 / 5.48	8 / 0.20		0	544 / 8.95	219 / 4.56	170 / 4.80	12 / 0.19	0.8			818	535	89	33

1/ All analyses reported by discharger.
2/ All analyses reported by discharger except 7-2-69 24-hour composite.

TABLE F-2

ANALYSES OF WASTE WATER
PART 2

Source	Date Time P.S.T.	Type of sample	Flow in mgd	Heavy Metals in mg/l								Organics in mg/l				Nutrients in mg/l						
																Nitrogen Series					Phosphate	
				Aluminum (Al)	Arsenic (As)	Chromium (Hex) (Cr^{+6})	Copper (Cu)	Lead (Pb)	Manganese (Mn)	Zinc (Zn)	Total iron (Fe)	Detergents (mbas)	Grease and oil	Phenols	BOD (5 day)	(NH_3)	(NO_2)	(NO_3)	ORG	(NH_3) + ORG	Ortho (PO_4)	Total
CENTRAL CONTRA COSTA SANITARY DISTRICT (Activated Sludge)	6-27-69 0800	24-Hour Composite	1.1									0.1						9.7		12	12	
CENTRAL CONTRA COSTA SANITARY DISTRICT (Primary)	6-27-69 0800	24-Hour Composite	24.2									5.8						0.0		25	11	
CONTRA COSTA SANITARY DISTRICT NO. 3	6-25-69 0800	24-Hour Composite	1.02									8.4						0.1		29	17	
CONTRA COSTA SANITARY DISTRICT NO. 7A	7- 2-69 0900	24-Hour Composite	0.85									10.0						0.0		41	4.3	
CITY OF CONCORD	6-27-69 1000	24-Hour Composite	4.83									0.4						1.2		21	11	
CROCKETT-VALONA SANITARY DISTRICT	6-26-69 1000	24-Hour Composite	0.26									6.1						0.0		26	11	
EAST BAY MUNICIPAL UTILITY DISTRICT 1/	10- -68	Monthly Average	75.9	0.5		0.0					2.8		36	<0.1	176	21.2	0.11	0.85				22
	11- -68	Monthly Average	75.2	0.2		0.2					5.0		104	<0.1	153	18.4	0.15	1.20				30
	12- -68	Monthly Average	82.4	3.9		0.0					1.4		27	0.0	179	14.7		2.50				22
	1- -69	Monthly Average	113.3	0.6		0.0					4.2		38	0.0	145	2.8	0.35	3.00				4
	2- -69	Monthly Average	130.5										39		137							
	3- -69	Monthly Average	86.1										42		150	7.4		1.30				
	4- -69	Monthly Average	82.2										49	0.0	149	6.3	0.22	1.00				
	5- -69	Monthly Average	73.2										40		147	8.6	0.14					
	6- -69	Monthly Average	73.2												131	6.5						
	7- -69	Monthly Average	77.1										26		140	6.8		1.5				
	8- -69	Monthly Average	81.6										33	<0.1	266							32
	9- -69	Monthly Average	79.4										32	<0.1	284							
CITY OF LIVERMORE 2/	10- -68	Monthly Average	2.9									0.26	0.28		3.1	0.12	0.03	26.0	1.69			63
	11- -68	Monthly Average	2.5									0.21	0.31		8.1							
	12- -68	Monthly Average	3.1									0.30	0.41		3.1	0.23	0.01	11.0	0.63			
	1- -69	Monthly Average	3.4									0.25	0.55		13.5	3.7	0.13	12.4	2.93			46
	2- -69	Monthly Average	4.1									0.09	0.35		7.0	3.2	0.01	19.0	2.58			42
	3- -69	Monthly Average	3.8		0.001 3/	0.03 3/		0.03 3/				0.27	0.20		5.5	0.11	0.01	26.0	0.85			68
	4- -69	Monthly Average	3.6									0.15	0.64		6.1	0.03	0.004	25.3	2.73			44
	5- -69	Monthly Average	3.1									0.16	0.19		3.1	0.12	0.001	24.4	0.09			48
	6- -69	Monthly Average	3.5									0.10	0.04		5.0	<0.02	0.01	28.0	<0.02			64
	7- -69	Monthly Average	3.8									0.08	0.19		7.1	0.08	<0.01	19.0	<0.02			58
	7- 2-69 0000	24-Hour Composite	3.9									0.0								0.4	15	
	8- -69	Monthly Average	3.9									0.07	0.40		5.1	<0.02	<0.01	19.2	<0.02			61
	9- -69	Monthly Average	3.9		0.001 4/	0.01 4/		0.04 4/				0.12	0.17		8.0	0.06	<0.01	21.0	<0.02			65
CITY OF FINOLE	6-25-69 1130	24-Hour Composite	0.7									9.6						0.0		39	15	
CITY OF PITTSBURG	7- 2-69 1300	24-Hour Composite	1.7									9.0						0.0		20	6.3	
CITY OF PLEASANTON	7- 1-69 0900	24-Hour Composite	0.9									2.5						1.1		36	10	
CITY OF RICHMOND	6-24-69 1500	24-Hour Composite	5.5									6.5						0.1		58	5.6	
RODEO SANITARY DISTRICT	6-26-69 0900	24-Hour Composite	0.6									7.9						0.0		28	10	
SAN PABLO SANITARY DISTRICT	6-24-69 1130	24-Hour Composite	6.2									10						0.0		32	28	
VALLEY COMMUNITY SERVICES DISTRICT	6-30-69 1700	24-Hour Composite	2.0									0.2						2.7		7.0	11	

1/ All analyses reported by discharger.
2/ All analyses reported by discharger except 7-2-69 24-hour composite.
3/ Six-month preserved composite, October 1968 through March 1969.
4/ Six-month preserved composite, April 1969 through September 1969.

TABLE F-2
ANALYSES OF WASTE WATER
PART 3

Source	Date / Time P.S.T.	Type of sample	Flow in mgd	Suspended solids in mg/l	Volatile suspended solids in mg/l	Settleable solids in ml/l	Remarks
EAST BAY MUNICIPAL UTILITY DISTRICT 1/	10- -68	Monthly Average	75.9	98 3/		0.2 3/	
	11- -68	Monthly Average	75.2	103		0.4	
	12- -68	Monthly Average	82.4	110		0.2	
	1- -69	Monthly Average	113.3	134		0.3	
	2- -69	Monthly Average	130.5	121		0.4	
	3- -69	Monthly Average	86.1	115		1.0	
	4- -69	Monthly Average	82.2	121		0.5	
	5- -69	Monthly Average	73.2	117		0.2	
	6- -69	Monthly Average	73.2	131		0.1	
	7- -69	Monthly Average	77.1	111		0.3	
	8- -69	Monthly Average	81.6	139		0.3	
	9- -69	Monthly Average	79.4	142		0.3	
CITY OF LIVERMORE 2/	10- -68	Monthly Average	2.9	11	10.3	<0.1	
	11- -68	Monthly Average	2.5	14	9.3	< 0.1	
	12- -68	Monthly Average	3.1	8	7.8	< 0.1	
	1- -69	Monthly Average	3.4	19	14	< 0.1	
	2- -69	Monthly Average	4.1	17	10	< 0.1	
	3- -69	Monthly Average	3.8	12	7	< 0.1	
	4- -69	Monthly Average	3.6	13	9	< 0.1	
	5- -69	Monthly Average	3.1	6	6	< 0.1	
	6- -69	Monthly Average	3.5	6	2	< 0.1	
	7- -69	Monthly Average	3.8	4	2	< 0.1	
	7- 2-69 0000	24-Hour Composite	3.9				
	8- -69	Monthly Average	3.9	5	3	< 0.1	
	9- -69	Monthly Average	3.9	5	5	< 0.1	

1/ All analyses reported by discharger.
2/ All analyses reported by discharger except 7-2-69 24-hour composite.
3/ Contains digested sludge.

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