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HYDROLOGIC DATA: 1970

Volume III: CENTRAL COASTAL AREA

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Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

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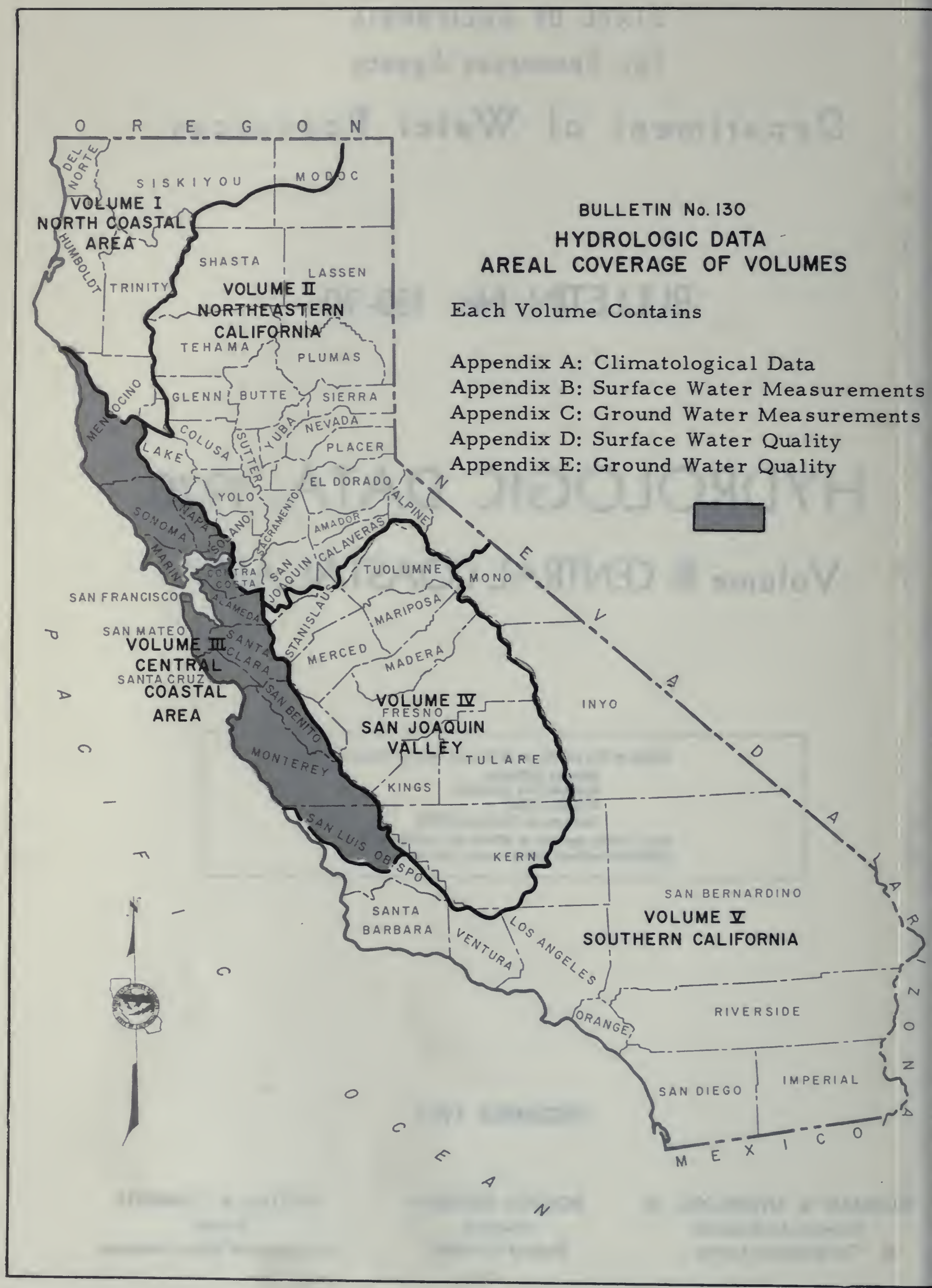
BULLETIN No. 130
HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES
Each Volume Contains
Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality
OREGON
NEVADA
ARIZONA
MEXICO
PACIFIC OCEAN
VOLUME I
NORTH COASTAL
AREA
VOLUME II
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VOLUME III
CENTRAL
COASTAL
AREA
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SAN JOAQUIN
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SHASTA
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TEHAMA
PLUMAS
GLENN
BUTTE
SIERRA
MENDOCINO
COLUSA
SUTTER
YUBA
NEVADA
LAKE
PLACER
YOLO
EL DORADO
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SONOMA
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SAN JOAQUIN
CALAVERAS
TUOLUMNE
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IMPERIAL

FOREWORD

The hydrologic data programs of the Department of Water Resources supplement the data collection activities of other agencies and help satisfy needs of these agencies for data on the quality and quantity of water in the State. Bulletin No. 130-70 presents accurate, comprehensive, and timely hydrologic data which provide a more complete knowledge of the factors affecting our environment and 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 on the opposite page.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
The Resources Agency
State of California

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 part per million (epm)	1 Milliequivalent per liter (me/l)
Degrees Fahrenheit (°F)	5/9 (°F-32) Degrees Celsius (°C)

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ACKNOWLEDGMENTS

In the preparation of this report, valuable assistance and contributions were received from many public and private agencies. This cooperation is gratefully acknowledged. Special mention is made of the following agencies:

Federal

U. S. Army Corps of Engineers
U. S. Army, Post Engineer, Fort Ord
U. S. Bureau of Reclamation
U. S. Coast Guard
U. S. Geological Survey
U. S. Soil Conservation Service
National Weather Service

State

Department of Public Health
Department of Veterans Affairs
Division of Highways
Division of Forestry
University of California, Agricultural Extension Service
California Regional Water Quality Control Board North Coast Region
California Regional Water Quality Control Board San Francisco Bay Region
California Regional Water Quality Control Board Central Coast Region
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

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES

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

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 1969-70 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; 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, 1969, to September 30, 1970. Seventeen cooperating agencies and 22 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 National Weather Service 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

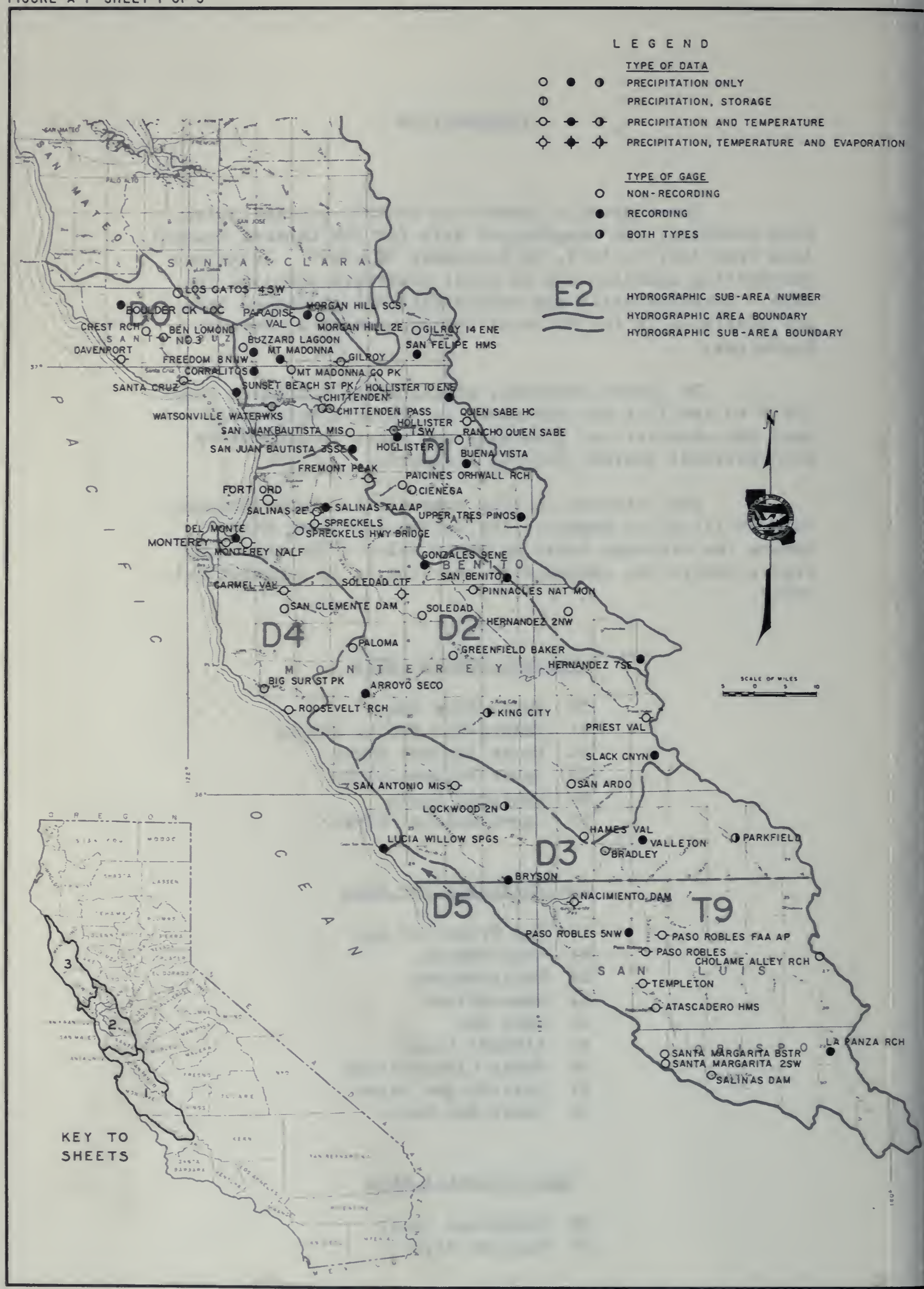
San Francisco Bay Area

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 OF 3



CLIMATOLOGICAL OBSERVATION STATIONS 1969-70

CLIMATOLOGICAL OBSERVATION STATIONS 1969-70

FIGURE A-1 SHEET 3 OF 3

CLIMATOLOGICAL OBSERVATION STATIONS 1969-70

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS
CENTRAL COASTAL AREA

An explanation of the column headings and the code symbols used in 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
805 California Department of Fish and Game
806 California Department of Water Resources
808 California Division of Forestry
809 California Division of Highways
900 National Weather Service
901 U. S. Corps of Engineers, San Francisco District
907 State Climatologist (unpublished National Weather Service)
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 National Weather Service 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

CENTRAL COASTAL AREA

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 COLLEGE	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	1969		40
E3 0372	ATLAS ROAD DUTRA	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
E3 0814-48	BIRDS LANDING	60	SEC 14	T03N	R01E	B	M	38 08 17	121 52 07	000		1912		08	48
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 HWY MAINT STN	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
D1 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	1969		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	1966		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
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
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
E4 3863	HAYWARD 6 ESE	715	SEC 21	T03S	R01W	N	M	37 39 08	121 59 09	900		1940			60

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

CENTRAL COASTAL AREA

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
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 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
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 4682	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
E5 4996	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
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	1970		07
E4 5378	MARTINEZ WATER PLANT	40		T02N	R02W		M	38 01 00	122 07 00	900		1970			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		1948	1970		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 JUNIOR MUSEUM	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
D1 6689-01	PARADISE VALLEY	345	SEC 31	T09S	R03E	L	M	37 06 17	121 40 58			1897			43
D3 6703	PARKFIELD	1482	SEC 35	T23S	R14E		M	35 53 00	120 26 00	900		1938			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
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

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

CENTRAL COASTAL AREA

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
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 BOOSTER	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 7964-01	SANTA ROSA LAGUNA														
F9 7964-02	SANTA ROSA OAKMONT														
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
D1 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
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

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

CENTRAL COASTAL AREA

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
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
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

TABLE A-2

PRECIPITATION DATA

Terms, abbreviations, and symbols used in 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 Fischer and Porter recording rain gage values which 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	1969						1970									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	41.05	0	0	0.08	3.50	1.77	8.92	19.51	3.86	2.67	0.21	0.06	0.47	0	0	T	40.97
BOULDER CREEK LOCATEI RCH	68.37	0	0	0.07	6.11	2.28	21.87	26.68	5.60	4.28	0.52	0.21	0.75	0	0	0	68.30
CREST RANCH	-	-	-	-	RE												
DAVENPORT	26.44	0	0.03	0.02	1.32	1.07	5.07	11.21	2.19	4.57	0.21	0.03	0.72	T	T	0	26.39
LOS GATOS 4 SW	47.66	0	0	0	2.52	1.55	13.17	19.95	4.25	5.30	0.62	0	0.30	0	0	0	47.66
SANTA CRUZ	30.25	0	0	0.07	1.77	1.34	6.75	13.03	3.11	3.39	0.23	0.03	0.53	0	0	0	30.18
PAJARO-SAN BENITO RIVERS D1																	
BUENA VISTA	12.83 E	0	0	0.16	0.79	0.56	2.31	5.53E	1.71E	1.47E	0.19	0	0.11E	0	0	0	12.67 E
BUZZARD LAGOON	41.81	0	0	0	3.34	1.39	11.97	16.90	2.59	4.77	0.32	0	0.53	0	0	0	41.81
CHITTENDEN PASS	20.92 E	0	0	0.15	1.62	1.10	5.23	7.68	1.49	2.81	0.48	0 E	0.36	0	0	0.02	20.79 E
CHITTENDEN	20.22	0	0	0.15	1.53	1.04	4.69	7.75	1.48	2.72	0.50	0	0.36	0	0	0	20.07
CIENEGA	18.54	0	0	0.24	0.91	0.91	3.42	9.12	1.25	1.96	0.50	0	0.23	0	0	0	18.30
CORRALITOS	31.9 E	0.2	0	0	2.8	1.2	8.5 E	13.1 E	2.3	3.3	0.2 E	0	0.3	0	0	0	31.7 E
FREEDOM 8 NNW	46.19 E	0	0	0.02	3.54	1.70	14.21E	17.74E	4.00E	4.22E	0.29E	0	0.47	0	0	0	46.17 E
FREMONT PEAK	28.96	0	0	0	2.24	1.38	6.88	12.12	3.52	1.67	0.33	0.06	0.76	0	0	0	28.96
GILROY	22.43	0	0	0.13	1.76	1.11	4.57	8.99	2.49	2.85	0.36	0	0.17	0	0	0	22.30
GILROY 14 ENE	22.18	0	0	0.59	1.88	1.02	3.50	9.45	2.44	2.68	0.47	0	0.15	0	0	0	21.59
HERNANDEZ 2 NW	12.26	0	0	1.06	0.38	0.96	1.24	4.37	1.53	2.41	0.31	0	T	0	0	0	11.20
HERNANDEZ 7 SE	14.92	0	0	0.97	0.60	1.02	2.10	5.14	2.95	1.99	0.15	0	0	0	0	0	13.95
HOLLISTER 1 SW	12.46	0	0	0.18	0.73	0.79	2.27	5.42	1.03	1.60	0.35	0	0.09	0	0	0	12.28
HOLLISTER 2	12.4	0	0	0.2	0.7	0.8	2.2	5.4	1.3	1.4	0.3	0	0.1	0	0	0	12.2
HOLLISTER 10 ENE	-	0	0	-	-	-	-	-	-	-	-	0	-	0	0	0	-
MORGAN HILL 2 E	18.32	0	0	0.11	1.48	1.35	3.00	6.87	1.89	3.30	0.27	T	0.05	0	0	0	18.21
MORGAN HILL S C S	22.0	0	0	0.1	1.6	1.0	4.9	8.4	3.6	2.1	0.2	0	0.1	0	0	0	21.9
MOUNT MADONNA	37.18	0	0	0.04	2.99	1.75	10.52	15.16	2.52	3.22	0.25	0	0.73	0	0	0	37.14
MOUNT MADONNA COUNTY PARK	27.29	0.05	0	0.14	2.18	1.50	6.98	10.64	1.88	3.12	0.37	0.03	0.40	0	0	0	27.10
PAICINES OHRWALL RANCH	13.48	0	0	0	0.82	0.57	2.56	5.98	1.13	1.82	0.47	0	0.13	0	0	0	13.48
PARADISE VALLEY	22.24	0	0	0	1.40	1.07	5.67	9.20	3.40	1.50	T	0	0	0	0	0	22.24
QUIEN SABE HAY CAMP	18.70	0	T	0.45	1.21	0.73	3.58	7.65	1.56	1.91	1.14	0.03	0.44	0	0	0	18.25
RANCHO QUIEN SABE	17.68	0	0	0	1.29	0.80	3.47	7.68	1.48	2.96	0	0	0	0	0	0	17.68
SAN BENITO	10.54 E	0	0	0.50	0.44E	0.90	1.43	4.02E	1.95	1.19	0.11	0	0	0	0	0	10.04 E
SAN FELIPE HIGHWAY STN	19.19	0	0	0.36	1.39	1.04	3.14	8.14	2.32	2.04	0.64	0	0.12	0	0	0	18.83
SAN JUAN BAUTISTA 3 SSE	17.70 E	0	0	0.11E	0.86	1.22	3.76	7.31	1.62E	2.25	0.30E	0	0.27	0	0	0	17.59 E
SAN JUAN BAUTISTA MISSION	18.19	0	0	0.11	1.12	0.62	4.34	7.29	1.40	2.56	0.46	0	0.29	0	0	0	18.08
SUNSET BEACH STATE PARK	20.5 E	0	0.1	0.1	1.9	1.0	4.7	6.9	2.5 E	2.8	0.2 E	0	0.3 E	0	0	0	20.3 E
UPPER TRES PINOS	12.37 E	0	0	0.74	0.75	0.73	1.60E	4.82E	1.81E	1.64E	0.28E	0	0	0	0	0	11.63 E
WATSONVILLE WATERWORKS	21.86	0	0	0.09	2.27	1.07	5.83	7.28	1.66	3.24	0.14	0	0.28	0	0	0	21.77
LOWER SALINAS RIVER D2																	
ARROYO SECO	19.35 E	0	0	0.24E	0.40	0.63	2.84	8.74	4.07	2.22	0.18	0	0.03	0	0	0	19.11
DEL MONTE	12.25	0	0	0.11	0.14	0.40	2.4	4.6	2.1	2.2	0.1	0.1	0.1	0	0	0	12.14
FORT ORD	12.92	T	T	0.09	0.60	0.71	2.49	4.20	2.37	2.16	0.03	T	0.27	T	T	T	12.83
GONZALES 9 ENE	12.37 E	0	0	0.02	0.58	0.95	1.76	4.93	2.14E	1.44E	0.46	0	0.09	0	0	0	12.35 E
GREENFIELD BAKER	7.06	0	0	0.14	0.11	0.56	0.49	2.79	0.95	1.73	0.29	0	0	0	0	0	6.92
HAMES VALLEY	9.58	0	0	0.30	0.07	0.69	0.70	2.93	3.55	1.00	0.34	0	T	0	0	0	9.28
KING CITY	7.93	0	0	0.35	0.07	0.56	0.46	2.98	1.14	2.30	0.07	0	0	0	0	0	7.58
MONTEREY	16.08	0.04	T	0.12	0.50	0.72	3.08	5.91	2.04	2.97	0.35	0.05	0.30	0.03	0.06	0.02	16.03
MONTEREY N A L F	11.68	T	T	0.10	0.30	0.43	2.44	4.46	1.61	2.00	0.19	T	0.15	T	T	T	11.58
PALOMA	17.97	0	T	0.05	0.22	0.90	2.65	6.83	2.70	3.11	1.26	0.22	0.03	0	0	0	17.92
PINNACLES NATL MONUMENT	11.75	0	0	0.19	0.35	1.24	0.91	4.24	1.99	2.20	0.60	0	0.03	0	0	0	11.56
PRIEST VALLEY	14.93	0	0	0.48	0.58	1.16	1.80	4.59	2.63	3.54	0.15	0	T	0	0	0	14.45
SALINAS 2 E	14.97	0	0	0	0.70	0.90	3.98	5.34	1.68	1.90	T	0	0.47	T	0	T	14.97
SALINAS FAA AIRPORT	13.00	T	T	0.03	0.67	0.72	2.74	4.96	1.83	1.72	0.11	T	0.22	T	0	0	12.97
SAN ARDO	8.18	0	0	0.40	0	0.75	0.40	3.04	0.62	2.97	T	0	0	0	0	0	7.78
SLACK CANYON	9.42 E	0	0	0.40	0.45	0.82E	0.89	3.10	1.97	1.79	0	0	0	0	0	0	9.02 E
SOLEDAD	8.20	0	0	0.25	0.24	0.60	0.68	3.11	1.01	2.05	0.26	0	T	0	0	0	7.95
SOLEDAD C T F	8.22	0	0	0.12	0.30	0.45	0.94	3.08	1.31	1.86	0.16	0	0	0	0	0	8.10
SPRECKELS HIGHWAY BRIDGE	13.26	0.01	0	0.25	0.53	0.78	2.63	5.01	1.49	2.04	0.13	0.01	0.38	0	0	0	13.00
SPRECKELS	12.23	T	0	0	0.62	1.22	2.33	4.28	1.20	2.17	0.09	0.01	0.31	0	0	0	12.23
UPPER SALINAS RIVER D3																	
BRADLEY	7.33 E	0	0 E	0.22E	0.04	0.41	0.59	2.56	1.08	2.19	0.24	0	0	0	0	0	7.11
BRYSON	16.89	0	0	0.13	0.50	1.20	2.01	7.35	3.01	2.69	0	0	0	0	0	0	16.76
LOCKWOOD 2 N	11.23	0	0	0.18	0.10	0.76	0.91	4.19	1.24	3.56	0.29	0	0	0	0	0	11.05
PARKFIELD	10.20 E	0 E	0	0.06	0.32	0.59	1.31	3.70	0.91	3.31	0	0	0	0	0	0	10.14
SAN ANTONIO MISSION	17.50	0	0	0.54	0.45	0.89	2.07	7.91	2.58	3.06	0	0	0	0	0	0	16.96
VALLETON	7.46	0	0	0.20	0.06	0.65	0.56	2.32	1.63	2.04	0	0	0	0	0	0	7.26
MONTEREY COAST D4																	
BIG SUR STATE PARK	42.00	0	0	0.11	2.43	2.79	11.46	15.28	4.01	4.47	0.90	0	0.55	0	0.02E	0.02E	41.93 E
CARMEL VALLEY	15.52	0	0	0.02	0.48	0.57	2.82	5.85	2.05	2.87	0.73	0.08	0.05	0	0	0	15.50
LUCIA WILLOW SPRINGS	27.36 E	0	0	0.16	1.73	2.16	5.66E	10.63	3.83	2.47	0.35	0	0.37	00	0	0	27.20 E
ROOSEVELT RANCH	33.64	0	0	0.20	2.36	1.92	8.57	12.85	2.52	4.36	T	0	0.86	0	0	0	33.44
SAN CLEMENTE DAM	18.28	0	0	0	0.34	0.79	3.11	7.00	2.30	3.82	0.81	0.07	0.04	0	0	0	18.28

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1969						1970									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 MAINT STN	-	0.40	0	RE													
CHOLAME ALLEY RANCH	6.05	0	0	0.08	0.14	0.45	0.48	2.02	1.75	1.13	0	0	0	0	0	0	5.97
LA PANZA RANCH	5.50 E	0	0	0.10	0.05	0.45	0.49E	1.74	1.58	1.05	0.04	0	0	0	0	0	5.40 E
NACIMIENTO DAM	9.62	0	0	0.13	0.08	0.60	0.70	3.56	1.04	3.51	0	0	0	0	0	0	9.49
PASO ROBLES	9.22	0.25	0	T	0.24	0.44	0.68	3.71	1.66	1.83	0.37	0	0.04	0	0	0	8.97
PASO ROBLES 5 NW	9.30 E	0	0	0.20	0.13	0.40E	0.42	3.80	2.43	1.86	0.06	0	0	0	0	0	9.10 E
PASO ROBLES FAA AIRPORT	7.21	0.30	0	0.15	0.10	0.42	0.45	2.51	1.43	1.74	0.11	0	T	0	0	0	6.76
SALINAS DAM	12.83	T	0	T	0.34	1.01	0.65	5.27	1.57	3.98	0.01	0	T	0	0	0	12.83
SANTA MARGARITA 2 SW	22.46	0	0	0.07	1.46	1.32	3.51	9.91	3.00	3.02	0.11	0	0.06	0	0	0	22.39
SANTA MARGARITA BOOSTER	23.86	T	0	0.06	1.50	1.32	3.15	11.67	1.68	4.29	0.15	0	0.04	0	0	0	23.80
TEMPLETON	11.79	0.58	0	0.10	0.30	0.41	1.20	5.17	0.94	2.85	0.24	0	0	0	0	0	11.11
SAN FRANCISCO BAY AREA																	
SAN FRANCISCO BAY E0																	
S E FARALLON	15.50 E	0	0	0.06	1.87	1.22E	4.01	5.13	1.51	1.43	0.05	0	0.22	0	0	0	15.44 E
COAST-MARIN E1																	
MUIR WOODS	49.38 E	0	0	0.06	3.41	1.33	16.21E	20.61E	3.43	2.66	0.35	0.37	0.95	0	0	0	49.32 E
MARIN-SONOMA E2																	
KENTFIELD	62.14	0	0	0.03	5.92	1.68	19.97	26.83	4.15	2.77	0.19	0.15	0.45	0	0	0	62.11
MILL VALLEY	37.32	0	0.10	0	1.00	4.10	9.63	10.44	8.92	1.94	1.19	0	0	-	-	-	-
NOVATO FIRE HOUSE	28.56	0	0	0	2.20	0.87	7.68	13.30	2.23	1.82	0.01	0	0.45	0	0	0	28.56
OAKVILLE 4 SW NO. 2	49.50	0	0	0	2.88	1.82	15.18	21.41	4.07	3.41	0.27	0	0.46	0	0	0	49.50
PETALUMA FIRE STN NO. 2	29.88 E	0	0	T	1.65	0.88	8.54E	13.34	2.34	2.48	0.17	0	0.48	0	0	0	29.88 E
PETALUMA BURNS	37.63	0	0	0.01	2.23	1.39	11.51	16.17	3.26	2.49	0.11	0	0.46	0	0	0	37.62
SAN ANSELMO	54.65	0	0	0	4.52	1.17	16.94	24.80	4.49	1.87	0.56	0	0.30	0	0	0	54.65
SAN RAFAEL	46.48	0	0	0.09	4.73	1.19	14.24	19.85	3.53	2.41	0.12	0.06	0.26	0	0	0	46.39
SAN RAFAEL NO. 1	45.47	0	0	0.09	4.93	1.17	14.05	19.17	2.52	3.13	0.09	0.05	0.27	0	0	0	45.38
SONOMA	33.23	0	0	T	1.80	1.08	8.23	16.31	2.93	2.16	0.24	0	0.48	0	0	0	33.23
TAMALPAIS VALLEY	39.13	0	0	T	3.64	1.38	10.21	16.33	3.57	2.60	0.20	0.25	0.95	0	0	0	39.13
TIBURON TOPHAM	39.32	0	0	0.10	3.20	1.17	12.81	15.98	2.55	2.86	0	0	0.65	0	0	0	39.22
NAPA-SOLANO E3																	
ANGWIN PACIFIC UNION COL	51.98	T	0	0	3.05	1.56	15.15	24.00	3.54	3.78	0.41	T	0.49	0	0	0	51.98
ATLAS ROAD DUTRA	-	0	0	0	2.5	-	-			2.2	0.7	0	0.4	0	0	0	-
BIRDS LANDING	20.80	T	T	T	1.82	0.38	5.09	9.91	1.47	1.43	0.21	0	0.49	0	0	0	20.80
CALISTOGA	47.79	0	0	0	2.63	1.03	13.93	22.17	4.22	3.12	0.33	0.02	0.34	0	0	0	47.79
CARNEROS VALLEY	37.83	0	0	T	2.36	1.18	10.40	18.67	2.16	2.30	0.16	0	0.60	0	0	T	37.83
COLLINSVILLE	-	-	-	-	-	0.39	3.90	6.24	1.03	1.11	0.45	0	0	0	0	0	-
DUTTONS LANDING	25.25	0	0	0	2.21	1.37	5.74	11.07	2.13	1.97	0.21	0	0.55	0	0	0	25.25
FAIRFIELD	23.62 E	0	0	0	2.08E	0.40	6.06	11.66	1.37E	1.54E	0.10	0	0.41	0	0	0	23.62 E
FAIRFIELD FIRE STATION	24.26	0	0	0	2.12	0.46	6.16	11.75	1.36	1.86	0.16	0	0.39	0	0	0	24.26
GREEN VALLEY	38.28	0	0	0	2.39	1.07	10.14	18.73	3.12	1.83	0.46	0	0.54	0	0	0	38.28
GRIZZLY ISLAND	19.52	0	0	0	1.69	0.45	5.87	8.38	1.19	1.51	0.07	T	0.36	0	0	0	19.52
LAKE CURRY	31.12	0	0	0	1.97	0.71	8.53	14.65	3.07	1.19	0.65	0	0.35	0	0	0	31.12
MARE ISLAND NAVY	23.28	0	0	0	1.54	1.39	5.59	10.77	1.89	1.41	0.05	0	0.64	0	0	0	23.28
NAPA STATE HOSPITAL	29.86	0	0	0	3.14	1.30	7.22	13.77	1.92	1.97	0.08	T	0.46	0	0	0	29.86
OAKVILLE 1 WNW	39.48	0	0	0.01	2.30	1.39	11.50	17.63	3.15	3.05	0.15	0.01	0.29	0	0	0	39.47
SAINT HELENA	44.26	T	0	T	2.80	1.32	13.56	19.75	3.29	2.92	0.22	0.05	0.35	0	0	0	44.26
SAINT HELENA 4 WSW	46.3 E	0	0	0	1.6	1.8	15.9 E	17.2 E	5.3	3.5	0.4	0.1	0.5	0	0	0	46.3 E
VETERANS HOME	44.00	0	0	0	2.62	1.34	13.00	19.44	4.06	2.99	0.18	0	0.37	0	0	0	44.00
WILD HORSE VALLEY	36.16	0	0	0	2.18	1.12	10.43	16.35	3.27	1.89	0.37	0	0.55	0	0	0	36.16
EAST BAY E4																	
ALAMO 1 N	24.53	0	0	T	1.76	0.66	7.57	9.78	2.28	1.69	0.42	T	0.37	0	0	0	24.53
BERKELEY	27.28	0	0	T	2.12	1.43	8.47	11.14	1.85	1.71	T	T	0.56	0	0	0	27.28
BURTON RANCH	26.20	0	0	T	2.22	0.80	8.81	10.13	1.96	1.63	0.27	T	0.38	0	0	0	26.20
CONCORD 3 E	16.01 E	0	0	T	1.24	0.66	4.96	6.12	1.15	1.24	0.09	0	0.55E	0	0	0	16.01 E
CROCKETT	21.98	0	0	0	1.43	1.05	5.52	9.80	1.81	1.69	0.01	0	0.67	0	0	0	21.98
HAYWARD 6 ESE	25.96	0	0	0	1.78	0.74	5.47	12.60	2.18	2.15	0.47	0	0.57	0	0	0	25.96
LAFAYETTE 2 NNE	28.03	0	0	T	2.36	0.82	9.42	11.22	1.93	1.47	0.19	T	0.62	0	0	0	28.03
MARTINEZ 3 S	22.86	0	0	0	1.67	0.68	6.77	9.44	2.05	1.38	0.22	0	0.65	0	0	0	22.86
MARTINEZ 3 SSE	22.25	0	0	T	1.73	0.69	6.85	8.93	1.92	1.26	0.19	T	0.68	0	0	0	22.25
MARTINEZ FIRE STATION	-	0	0	T	1.20	0	6.24	RE									
MARTINEZ WATER PLANT	-						RB	8.82	1.43	1.41	0.20	0	0.07	0	0	0	-
MOUNT DIABLO NORTH GATE	25.04	0	0	0.01	2.15	0.86	7.37	10.21	1.99	1.64	0.27	0.03	0.51	0	0	0	25.03
OAKLAND 39TH AVENUE	26.40	0	0	T	2.63	0.91	7.41	10.96	1.97	1.55	0.08	0.02	0.87	0	0	0	26.40
OAKLAND CITY HALL	-	0	0	0	2.38	-	-	-	-	-	0	0	-	0	0	RE	
OAKLAND WB AIRPORT	18.56	T	0	T	2.06	0.71	4.33	7.78	1.69	1.24	0.02	T	0.73	T	T	0	18.56
PORT CHICAGO N A D	15.47	0	0	0	1.17	0.58	4.73	6.39	1.15	0.75	0.15	0	0.55	0	0	0	15.47
RICHMOND	25.84	0	0	0	2.44	0.67	7.63	10.72	1.75	1.89	0.29	0.01	0.44	0	0	0	25.84
SAINT MARYS COLLEGE	31.34	0	0	0	2.49	0.95	10.49	12.96	2.26	1.58	0.13	T	0.48	0	0	0	31.34
UPPER SAN LEANDRO FIL	22.91	0	0	0	2.31	0.73	5.70	9.71	1.59	1.99	0.06	0.01	0.81	0	0	0	22.91
WALMAR SCHOOL	22.59	0	0	0	1.59	0	7.38	9.63	1.83	1.17	0.26	T	0.73	0	0	0	22.59

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1969 July	1969 Aug.	1969 Sept.	1969 Oct.	1969 Nov.	1969 Dec.	1970 Jan.	1970 Feb.	1970 Mar.	1970 Apr.	1970 May	1970 June	1970 July	1970 Aug.	1970 Sept.	Total Oct. 1 to Sept. 30
EAST BAY E4 (Continued)																	
WALNUT CREEK 2 ESE	20.93	0	0	T	1.71	0.60	6.50	8.02	1.80	1.35	0.49	0.03	0.43	0	0	0	20.93
WALNUT CREEK 2 ENE	19.22	0	0	0	1.42	0.66	6.00	7.69	1.56	1.14	0.28	0	0.47	0	0	0	19.22
WALNUT CREEK 4 E	17.13	0	0	T	1.34	0.62	5.34	6.82	1.46	1.03	0.14	T	0.38	0	0	0	17.13
ALAMEDA CREEK E5																	
CALAVERAS RESERVOIR	19.71	0	0	0	1.31	0.92	3.37	8.34	1.80	2.67	0.81	0.13	0.36	0	0	0	19.71
GERBER RANCH	18.51	0	0	0.68	0.99	0.64	3.03	7.60	1.89	2.95	0.72	0	0.01	0	0 E	0 E	17.83 E
LIVERMORE COUNTY F D	12.70	0	0	0	1.10	0.49	2.34	5.38	1.18	1.42	0.40	0.07	0.32	0	0	0	12.70
LIVERMORE SEWAGE PLANT	12.52	0	0	0.03	0.99	0.46	2.24	5.55	1.59	0.90	0.41	0.07	0.28	0	0	0	12.49
MOUNT HAMILTON	17.69 E	0	T	0.05	0.99	1.09	2.82E	7.55	2.23	1.78	0.75	0.09	0.34	0	0	0	17.64 E
NEWARK	10.32	0	0	0.05	0.47	0.36	1.23	5.36	0.93	1.51	0.20	0.01	0.20	0	0	0	10.27
NILES PINNA	-	-	-	-	1.93	0.40	2.87	8.53	2.07	2.28	0.27	0.38	0	0	0	0	18.73
PLEASANTON NURSERY	12.48	0	0	T	1.56	0.57	3.84	1.95	1.68	2.10	0.63	T	0.15	0	0	0	12.48
SANTA CLARA VALLEY E6																	
ALAMITOS PERCOLATION POND	11.26	0	0	0.10	0.64	0.58	1.90	4.44	1.07	2.50	T	0.03	0	0	0	0	11.16
ALMADEN RESERVOIR	26.61	0	0	0.10	1.56	0.84	5.43	10.77	3.14	4.64	0.13	0	0	0	0	0	26.51
BLACK MOUNTAIN 2 SW	31.73	0	0	T	2.04	1.20	7.43	13.74	3.44	2.57	0.62	0.18	0.51	0	0	0	31.73
CALERO RESERVOIR	18.67	0	0	0.15	1.15	0.75	2.95	8.25	2.04	3.22	0.16	0	0	0	0	0	18.52
CAMBRIAN PARK	-	0	0	0.06	0.71	0.69	2.04	5.52	-	-	-	-	-	0	0	0	-
CAMPBELL WATER COMPANY	12.63	0	0	0.10	0.78	0.79	1.98	5.37	1.40	2.08	0.10	0.02	0.01	0	0	0	12.53
COYOTE RESERVOIR	19.47	0	0	0.17	1.63	1.20	2.23	8.69	2.42	2.74	0.35	0	0.04	0	0	0	19.30
GILROY 8 NE	19.99	0	0	0.49	1.23	1.32	3.35	8.22	2.90	1.93	0.38	0	0.17	0	0	0	19.50
GUADALUPE RESERVOIR	22.11	0	0	0.11	1.19	1.13	4.38	8.50	2.41	4.28	0.11	0	0	0	0	0	22.00
LAKE ELSMAN	37.10	0	0	0.02	2.32	1.46	10.90	15.04	5.45	1.42	0.28	0.02	0.19	0	0	0	37.08
LEROY ANDERSON DAM	17.92	0	0	0.08	1.37	1.26	3.06	6.76	2.04	3.00	0.32	0.03	T	0	0	0	17.84
LEXINGTON RESERVOIR	33.56	0	0	0.03	1.85	1.13	8.54	13.58	3.53	4.61	0.21	0	0.08	0	0	0	33.53
LOS GATOS	16.79	0	0	0.02	0.66	0.90	3.41	6.28	2.12	3.18	0.20	0.01	0.01	0	0	0	16.77
MORGAN HILL 6 WSW	34.26 E	0	0	0.03	1.98	1.10	9.78	13.18E	4.12E	3.67E	0.27E	0	0.13	0	0	0	34.23 E
PALO ALTO JUNIOR MUSEUM	13.07	0	0	0.03	0.70	0.51	2.20	6.77	1.38	1.22	0.15	0.01	0.10	0	0	0	13.04
PENITENCIA RAIN GAGE	14.14	0	0	0	1.01	0.89	1.84	5.22	1.58	2.87	0.45	0.06	0.22	0	0	0	14.14
REDWOOD CITY	18.83	0	0	0.01	1.24	0.73	4.11	8.77	2.04	1.43	0.40	0.04	0.06	0	0	0	18.82
SAN JOSE	11.32	0	0	0.14	0.62	0.93	1.57	4.02	1.45	2.26	0.21	0.02	0.10	0	0	0	11.18
SAN JOSE DECIDUOUS F F S	10.42	0	0	0.07	0.44	1.01	1.72	4.42	1.30	1.35	0.11	0	T	0	0	0	10.35
SANTA CLARA UNIVERSITY	11.05	0	0	0.07	0.54	0.85	1.40	4.35	1.22	2.48	0.12	0	0.02	0	0	0	10.98
SARATOGA CLARK	16.38	0	0	0.02	0.61	1.00	2.68	6.91	1.90	3.07	0.19	0	0	0	0	0	16.36
SARATOGA GAP MAINT STN	-	-	-	-	2.85	1.60	12.09	20.98	4.10	3.98	-	-	0.50	0	0	0	-
SARATOGA KRIEGE	17.10	0	0	T	0.70	1.13	2.66	7.35	1.91	3.33	0.02	0	0	0	0	0	17.10
SEARSVILLE LAKE	-	0	0	T	2.44	0.82	7.79	-	-	1.60	0.30	0.05	0.31	0	0	0	-
STEVENS CREEK RESERVOIR	25.70	0	0	0.04	1.02	0.94	5.18	11.39	3.21	3.37	0.44	0	0.11	0	0	0	25.66
VASONA RESERVOIR	16.28	0	0	0.02	0.71	1.24	2.46	6.51	1.84	3.16	0.34	0	T	0	0	0	16.26
WRIGHTS	45.77	0	0	T	2.85	1.72	13.43	18.82	3.52	4.71	0.41	0	0.31	0	0	0	45.77
BAYSIDE-SAN MATEO E7																	
BURLINGAME	19.13	0	0	0	1.89	0.05	4.48	9.13	1.90	1.21	0.30	0	0.17	0	0	0	19.13
SAN FRANCISCO WB AIRPORT	19.58	T	T	0.02	1.96	0.69	4.59	8.33	2.18	1.22	0.22	0.01	0.36	T	T	T	19.56
SAN FRANCISCO F O B	20.80	T	T	0.01	2.61	0.45	6.15	7.81	1.56	1.55	0.06	0.03	0.57	T	T	0	20.79
SAN MATEO	16.34	0	0	0.04	1.29	0.59	3.01	8.35	1.59	1.16	0.11	0	0.20	0	0	0	16.30
COAST-SAN MATEO E8																	
HALF MOON BAY	20.89	0	0	0.21	1.73	0.76	4.55	8.49	2.31	2.04	0.32	0.27	0.21	0	0	0	20.68
LA HONDA	26.85 E	0	0	0.04E	2.28	1.14	6.31	11.17	3.05	1.95	0.36	0.11	0.44	0	0	0	26.81
PORTOLA STATE PARK	43.59	0	0	0.02	3.95	1.87	12.31	15.78	5.69	3.05	0.49	0.21	0.22	0	T	0	43.57
SAN FRANCISCO SUNSET	22.54	0	0	0.10	2.84	0.93	5.96	7.67	2.15	1.94	0.03	0.12	0.80	0	0	0	22.44
SAN GREGORIO 2 SE	25.73	0.11	0.04	0.11	2.12	1.05	6.12	9.95	3.03	2.30	0.25	0.31	0.34	0.01	0.14	0.01	25.63
NORTH COASTAL AREA																	
MENDOCINO COAST F8																	
BOONVILLE HWY MAINT STN	50.66	0	0	0.16	2.27	2.03	13.89	24.14	3.91	2.56	0.96	0.15	0.59	0	0	0	50.50
CLOVERDALE 11 W	-	0	0	0.03	-	-	-	25.72E	7.78E	2.65	0.54	0.24	0.58	0	0	0	-
FORT BRAGG	41.78	0.02	0.03	0.58	2.77	2.76	14.30	13.43	3.28	3.25	0.59	0.40	0.37	0	0.03	0.07	41.25
FORT BRAGG AVIATION	51.78 E	0	0	0.41	1.89	2.15	15.05E	23.73E	3.82	3.23	0.51	0.54	0.45	0	0	0	51.37 E
FORT ROSS	42.16	0.06	0.03	0.17	2.65	1.69	12.04	18.42	3.37	2.74	0.50	0.08	0.41	0	0.11	0.02	42.03
NAVARRO 1 NW	46.09	0	0	0.10	2.59	1.83	12.72	20.29	4.29	2.56	0.73	0.27	0.71	0	0	0	45.99
PHILO 2 NW	49.82	0	0	0.08	2.54	1.91	13.56	23.96	3.79	2.45	0.71	0.17	0.65	0	0	0	49.74
PHILO 4 NW	51.22	0	0	0.14	3.14	2.24	13.62	22.81	4.19	3.18	0.88	0.27	0.75	0	0	0	51.08
POINT ARENA	46.30	0	0	0.30	2.24	3.85	14.19	18.34	3.35	2.56	0.73	0.31	0.43	0	0	0	46.00
SKAGGS SPRING LAS LOMAS	78.12	0	0	0	3.73	3.20	22.06	36.83	6.11	4.54	0.83	0.20	0.62	0	0	0	78.12
YORKVILLE	67.8	0	0	0.1	3.4	2.8	19.0	32.2	5.9	3.0	0.7	0.1	0.6	0	0	0	67.7
RUSSIAN RIVER F9																	
ALPINE DAM	60.15	0	0	0	4.30	1.63	17.22	28.38	4.76	3.40	0.46	0	0	0	0	0	60.15
BLAKES LANDING	30.04	0	0	0.10	2.80	4.60	5.12	11.15	4.05	1.87	0.05	0	0.30	0	0	0	29.94
BON TEMPE DAM	50.33	0	0	0	4.47	1.36	14.71	22.05	4.07	3.20	0.47	0	0	0	0	0	50.33
CAZADERO	93.23	0	0	0.03	5.05	2.72	30.01	42.67	7.56	4.89	0.24	0.06	0	0	0	0	93.20
CLOVERDALE 3 SSE	57.32	0	0	0	2.23	1.97	18.22	25.72	4.80	3.57	0.30	0.07	0.44	0	0	0	57.32

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1969						1970									Total Oct. 1 to Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
RUSSIAN RIVER F9 (Continued)																	
COYOTE DAM	40.33	0	0	0	2.34	1.60	10.51	18.43	3.48	2.38	1.08	0.08	0.43	0	0	0	40.33
GRATON	52.14	0	0	0.02	3.40	1.25	16.52	22.59	4.45	3.26	0.21	T	0.44	0	0	0	52.12
GUERNEVILLE	63.52	0	0	0.01	3.66	1.67	19.57	29.08	5.61	3.15	0.08	0.06	0.53	0	0	0	63.51
HEALDSBURG	56.52	0	0	0.01	2.71	1.56	18.58	25.24	5.20	2.63	0.12	0.02	0.45	0	0	0	56.51
HEALDSBURG NO. 2	53.17	0	0	0	2.46	1.42	17.37	23.72	4.58	3.02	0.12	0	0.48	0	0	0	53.17
KELLOGG	66.54	0	0	0	2.78	2.01	21.14	29.14	5.67	4.44	0.68	0.05	0.63	0	0	0	66.54
KENT LAKE	88.47	0	0	0.01	6.58	3.11	25.92	40.84	6.38	5.27	0.36	0	0	0	0	0	88.46
LAGUNITAS LAKE	64.31	0	0	0	5.60	1.78	20.43	28.00	4.66	3.54	0.30	0	0	0	0	0	64.31
MOUNT TAMALPAIS 2 SW	47.8 E	0	0	0.1	3.7	1.5 E	12.9	20.0	4.5	2.9 E	0.3	0.5	1.4	0	0	0	47.7 E
NICASIO	39.69	0	0	0.02	2.78	1.83	11.96	16.74	3.00	3.22	0.14	0	0	0	0	0	39.67
NOVATO 8 WNW	34.84 E	0	0	0	2.37	1.43	9.64E	15.30E	3.09	2.26	0.21E	0	0.54E	0	0	0	34.84 E
OCCIDENTAL	71.49	0	0	0.16	4.16	1.66	23.17	32.13	5.31	3.86	0.38	0.04	0.62	0	0	0	71.33
PHOENIX LAKE DAM	62.93	0	0	0	5.25	1.67	19.51	27.84	4.67	3.70	0.29	0	0	0	0	0	62.93
POTTER VALLEY 3 SE	36.04	0	0	0	1.83	1.50	9.94	16.44	3.28	1.98	0.62	0.15	0.30	0	0	0	36.04
POTTER VALLEY POWERHOUSE	52.75	0	0	0	2.95	1.58	14.86	25.30	3.84	2.43	0.97	0.30	0.52	0	0	0	52.75
REDWOOD VALLEY	42.77 E	0	0	0	2.28	1.60	11.45	19.64E	3.80E	2.45	0.79	0.24E	0.52	0	0	0	42.77 E
SANTA ROSA SEWAGE PLANT	35.25	0	0	0.02	2.43	1.01	10.94	14.29	3.17	2.87	0.08	0.03	0.41	0	0	0	35.23
SANTA ROSA LAGUNA	39.85	0	0	0	2.60	1.39	11.80	17.04	3.43	3.06	0.07	0	0.46	0	0	0	39.85
SANTA ROSA OAKMONT	39.09	0	0	0.03	2.21	1.30	12.02	16.24	3.37	3.71	0.21	T	0	0	0	0	39.06
SANTA ROSA	38.44	0	0	0.03	2.42	1.19	11.79	15.89	3.17	3.44	0.07	0	0.44	0	0	0	38.41
SEBASTOPOL 4 SSE	39.7 E	0	0	0.1	2.5	1.2	11.6	17.7 E	3.6	2.5	0.1	0	0.4	0	0	0	39.6 E
THE GEYSERS	66.98 E	0	0	0	1.86	2.48	21.00E	30.35	7.23E	2.99	0.58E	0.07E	0.42	0	0	0	66.98 E
UKIAH	48.71	0	0	0.01	2.42	1.80	12.85	23.52	3.92	2.27	1.24	0.16	0.52	0	0	0	48.70
UKIAH 4 WSW	55.93	0	0	0.08	3.12	2.32	14.17	25.89	5.17	2.74	1.40	0.46	0.58	0	0	0	55.85
VENADO	85.9 E	0	0	0	3.5	2.5	23.4 E	43.9	8.5	3.1	0.3	0.1	0.6	0	0	0	85.9 E
WOODACRE	56.80	0	0	0.04	4.82	1.89	15.84	26.21	4.13	3.02	0.36	0.08	0.41	0	0	0	56.76

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	1969 July	1969 Aug.	1969 Sept	1969 Oct.	1969 Nov.	1969 Dec.	1970 Jan.	1970 Feb.	1970 Mar	1970 Apr.	1970 May	1970 June	1970 July	1970 Aug.	1970 Sept.	Total Oct 1 to Sept 3
CENTRAL COASTAL AREA																		
LOWER SALINAS RIVER D2																		
SOLEDAD C T F	EVAP	69.30	7.87	7.90	5.92	5.25	4.25	2.75	2.57	3.06	5.32	6.68	8.93	8.80	9.18	8.19	7.56	72.54
	WIND	55163	5187	4128	3966	3859	3696	4167	4478	3631	4148	5406	6362	6135	5456	5173	4145	5665(
	AVG MAX		84.3	81.0	80.3	73.1	68.3	62.6	62.4	67.5	71.5	71.4	78.1	79.3	82.2	80.4	79.6	
	AVG MIN		51.8	52.0	54.8	46.8	43.9	42.4	42.9	43.1	44.2	42.3	49.1	52.1	54.7	54.0	50.6	
SPRECKELS	EVAP							RB	2.68	3.32	7.09	11.75	10.10	9.42	7.78	10.18	9.81	-
	WIND							RB	2203	1350	1830	2920	2660	2770	2280	1720	1041	-
UPPER SALINAS RIVER T9																		
NACIMIENTO DAM	EVAP	-	11.02	10.77	7.86	5.03	2.86	1.75	1.40	2.49	4.52	-	-	-	11.03	9.66	8.10	-
SAN FRANCISCO BAY AREA																		
NAPA-SOLANO E3																		
DUTTONS LANDING	EVAP	67.34	9.72	9.10	6.29	5.52	2.35	1.48	1.11	2.14	4.68	6.69	9.29	8.97	9.31	7.61	7.99	67.14
	WIND	26531	3240	2319	2390	2062	1260	1649	1660	1160	1167	2524	3383	3717	3471	2895	2051	26999
	AVG MAX		84.6	85.9	83.5	72.9	66.0	57.7	55.8	65.0	73.5	74.1	80.9	81.6	85.0	82.7	82.5	
	AVG MIN		55.6	55.1	54.5	50.4	45.8	42.9	45.0	45.2	46.1	44.1	51.4	53.7	55.8	54.9	53.7	
GRIZZLY ISLAND	EVAP	65.21	10.25	9.98	7.66	5.18	2.26	1.24	1.05	2.03	4.70	2.67	8.43	9.76	10.53	9.21	8.87	65.93
	WIND	20127	2062	1718	1837	1645	936	1336	1670	1109	1489	1621	1995	2709	1952	2128	1733	20323
	AVG MAX		89.4	89.8	84.8	73.0	64.5	55.7	56.1	63.5	70.7	73.9	83.0	85.0	89.6	86.1	83.5	
	AVG MIN		60.2	57.5	56.3	49.9	44.7	43.2	44.2	44.6	45.5	45.3	51.8	54.2	56.9	54.5	53.1	
ALAMEDA CREEK E5																		
LIVERMORE SEWAGE PLANT	EVAP	85.30	13.08	12.85	9.43	5.98	3.62	1.84	0.89	3.00	6.24	6.93	10.62	10.82	12.55	11.07	10.92	84.48
	WIND	32920	3680	2620	2470	2530	1690	2450	2660	1960	2620	2930	3650	3660	3010	2450	1995	31605
NEWARK	EVAP	72.66	9.38	8.86	6.45	4.92	2.51	1.75	2.15	2.85	6.10	8.04	9.99	9.66	9.91	8.56	9.17	75.61
	WIND	-	1184	795	985	1591	591	705	-	-	-	-	4198	4121	3446	3443	2824	-
SANTA CLARA VALLEY E6																		
ALAMITOS PERCOLATION POND	EVAP	61.32	8.76	8.42	6.29	4.20	2.34	1.63	1.06	2.01	4.93	5.71	8.12	7.85	9.36	7.94	7.49	62.64
	WIND	-	1124	814	793	950	781	1111	1399	860	-	1472	1501	1395	1232	1193	981	-
LEROY ANDERSON DAM	EVAP	65.79	10.63	10.59	7.42	4.75	2.23	1.42	1.54	2.06	4.60	5.64	7.44	7.47	9.29	7.90	7.17	61.51
	WIND	16818	1804	1661	1497	1476	1122	1263	1261	1110	1525	1597	1337	1165	1137	964	1146	15103
LEXINGTON RESERVOIR	EVAP	57.26	9.22	8.54	6.02	3.91	1.61	1.20	1.08	2.00	4.08	4.84	7.67	7.09	8.78	7.74	6.98	56.98
	WIND	-	-	518	703	818	496	1273	1300	447	638	480	-	903	929	777	839	-
BAYSIDE-SAN MATEO E7																		
BURLINGAME	EVAP	66.78	9.41	8.37	5.94	5.14	2.91	1.69	1.88	2.27	5.40	7.53	7.79	8.45	9.33	8.52	7.45	68.36
	WIND	32457	2628	2528	2411	2668	1552	2530	2678	1752	2997	4124	3214	3375	2717	2848	2218	32673
	AVG MAX		78.2	76.9	74.5	75.5	-	63.3	60.5	66.6	70.2	68.0	78.6	78.0	81.9	79.5	80.7	-
	AVG MIN		53.7	49.5	53.9	-	-	46.7	46.1	48.4	47.8	46.4	52.2	64.9	55.8	54.5	52.0	-
NORTH COASTAL AREA																		
RUSSIAN RIVER F9																		
COYOTE DAM	EVAP	70.34	12.05	10.71	8.78	4.37	1.79	1.58	1.36	1.96	4.29	5.47	7.27	10.71	12.39	11.21	8.67	71.07
	WIND	-	1603	1663	1511	1367	862	1243	1158	871	1334	1564	-	1896	1841	1772	1539	-
	AVG MAX		92.3	87.6	83.8	68.4	61.9	54.5	51.8	60.3	65.9	67.2	76.8	85.1	88.3	85.1	81.0	
	AVG MIN		59.8	54.7	53.3	45.9	39.8	41.9	42.5	40.5	40.5	39.0	46.5	52.0	54.6	51.8	48.9	
SANTA ROSA SEWAGE PLANT	EVAP	68.20	9.58	9.77	6.95	5.55	2.62	1.45	1.00	1.61	5.39	6.88	8.93	8.47	9.14	8.49	7.77	67.30
	WIND	25139	2841	2213	1999	1653	1077	1858	2250	1299	2013	2463	2663	2810	2506	2289	1770	24651

Appendix B

SURFACE WATER MEASUREMENTS

INTRODUCTION

This appendix contains surface water data for the period from October 1, 1969, through September 30, 1970. These data consist of the amounts of water imported to the report area, daily mean gage heights, daily maximum and minimum tides, and corrections and revisions to previously published reports of surface water data. Station locations are shown on Figure D-1, pages 56, 57, 58 and 59.

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

1. "Water Resources Data for California, Part 1: Surface Water Records, Volume 1: Colorado River Basin, Southern Great Basin, and Pacific Slope Basins excluding Central Valley". U. S. Geological Survey.

2. Bulletin No. 120, "Water Conditions in California, Fall Issue". Department of Water Resources.

3. Bulletin No. 157, "Index to Stream Gaging Stations in and Adjacent to California, 1970". Department of Water Resources. This index contains the period of record -- with the number of years missing -- and more information for stations in the report area. The index also identifies the agency from which a particular record may be obtained.

TABLE B-1

SURFACE WATER IMPORTS TO THE CENTRAL COASTAL AREA

IMPORT	1970 Water Year												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
CITY OF VALLEJO FROM CACHE SLOUGH a													
Total acre-feet	1,100	741	683	699	792	815	1,390	1,590	1,550	1,640	1,640	1,450	14,090
Average cubic feet per second	18	12	11	11	14	13	23	26	26	27	27	24	19
Monthly quantities in percent of seasonal	7.8	5.3	4.8	5.0	5.6	5.8	9.9	11.3	11.0	11.6	11.6	10.3	
CONTRA COSTA CANAL b													
Total acre-feet*	6,426	4,651	5,784	3,017	4,651	4,443	7,616	10,219	11,724	13,008	13,188	9,572	94,299
Average cubic feet per second*	104	78	94	49	84	72	128	166	197	212	214	161	130
Monthly quantities in percent of seasonal	6.8	4.9	6.1	3.2	4.9	4.7	8.1	10.9	12.4	13.8	14.0	10.2	
HETCH HETCHY AQUEDUCT c													
Total acre-feet	21,693	18,192	20,879	11,526	0	6,196	19,035	24,128	20,763	21,433	21,626	20,874	206,345
Average cubic feet per cecond	353	306	340	187	0	101	320	392	349	349	352	351	285
Monthly quantities in percent of seasonal	10.5	8.8	10.1	5.6	0	3.0	9.2	11.7	10.1	10.4	10.5	10.1	
MOKELUMNE RIVER AQUEDUCT d													
Total acre-feet	18,956	18,195	18,765	16,032	12,393	16,274	18,062	18,827	18,595	19,197	19,126	18,651	213,073
Average cubic feet per second	308	306	305	261	223	265	304	306	313	312	311	313	294
Monthly quantities in percent of seasonal	8.9	8.6	8.8	7.5	5.8	7.6	8.5	8.8	8.7	9.0	9.0	8.8	
POTTER VALLEY POWERHOUSE FROM EEL RIVER e													
Total acre-feet	18,410	15,060	13,060	17,930	16,420	17,790	6,370	5,600	7,650	8,320	8,840	15,910	151,400
Average cubic feet per second	299	253	212	292	296	289	107	91	129	135	144	267	209
Monthly quantities in percent of seasonal	12.2	10.0	8.6	11.8	10.8	11.8	4.2	3.7	5.1	5.5	5.8	10.5	
PUTAH SOUTH CANAL b													
Total acre-feet*	6,259	1,454	1,799	1,087	1,492	4,007	23,736	31,515	29,351	32.877	27,807	24,518	185,902
Average cubic feet per second*	102	24	29	18	27	65	399	513	493	535	452	412	257
Monthly quantities in percent of seasonal	3.4	0.7	1.0	0.6	0.8	2.1	12.8	16.9	15.8	. 17.7	15.0	13.2	
SOUTH BAY AQUEDUCT													
Total acre-feet	9,831	8,175	9,209	10,475	4,892	5,029	12,104	13,818	12,143	11,322	11,185	7,630	115,813
Average cubic feet per second	160	137	150	170	88	82	203	225	204	184	182	128	160
Monthly quantities in percent of seasonal	8.5	7.1	8.0	9.0	4.2	4.3	10.4	11.9	10.5	9.8	9.7	6.6	

*Amounts are total diversion into the canal; only an unknown portion of this is imported to the Central Coastal Area.

a Data furnished by City of Vallejo.
b Data furnished by U. S. Bureau of Reclamation.
c Data furnished by 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
1970	E31400	RECTOR RESERVOIR NEAR YOUNTVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	359.03	356.00	355.12	370.12	370.27	370.28	369.81	367.36	364.09 E	360.59	356.57	352.62	1
2	358.89	355.89	355.13	370.12	370.27	370.26	369.75	367.27	363.99 E	360.39	356.42	352.52	2
3	358.77	355.82	355.14	370.13	370.27	370.25	369.67	367.17	363.88 E	360.28	356.30	352.40	3
4	358.65	355.82	355.14	370.22	370.26	370.43	369.61	367.05	363.78 E	360.17	356.18	352.21	4
5	358.54	355.91	355.15	370.12	370.26	370.31	369.52	366.91	363.67 E	360.03	356.05	352.09	5
6	358.39	355.82	355.17	370.12	370.24	370.30	369.43	366.81 E	363.57 E	359.89	355.90	351.96	6
7	358.29	355.72	355.21	370.12	370.25	370.27	369.37	366.70 E	363.46 E	359.78	355.78	351.82	7
8	358.25	355.63	355.26	370.15	370.25	370.27	369.29	366.60 E	363.36 E	359.63	355.71	351.70	8
9	358.16	355.54	355.28	370.66	370.25	370.25	369.22	366.49 E	363.26 E	359.50	355.59	351.59	9
10	358.06	355.44	355.33	370.40	370.25	370.24	369.14	366.39 E	363.15 E	359.36	355.46	351.48	10
11	357.94	355.32	355.63	370.34	370.30	370.23	369.07	366.28 E	363.05 E	359.22	355.32	351.34	11
12	357.79	355.21	355.94	370.30	370.26	370.22	368.98	366.18 E	362.94 E	359.10	355.19	351.22	12
13	357.68	355.11	356.06	370.88	370.47	370.22	368.87	366.07 E	362.84 E	358.97	355.07	351.10	13
14	357.58	355.05	356.12	370.73	370.37	370.21	368.80	365.98 E	362.73 E	358.78	354.93	351.03	14
15	357.68	355.05	356.17	370.81	370.34	370.19	368.73	365.87 E	362.63 E	358.65	354.78	350.97	15
16	357.63	355.07	356.21	370.85	370.66	370.19	368.66	365.76 E	362.52 E	358.52	354.66	350.93	16
17	357.52	355.08	356.24	370.59	370.45	370.18	368.58	365.66 E	362.42	358.40	354.50	350.77	17
18	357.42	355.08	356.30	370.42	370.37	370.16	368.48	365.55 E	362.33	358.31	354.36	350.80	18
19	357.31	355.08	357.59	370.45	370.31	370.16	368.40	365.45 E	362.19	358.23	354.24	350.75	19
20	357.16	355.08	360.77	371.00	370.30	370.16	368.30	365.43 E	362.02	358.16	354.09	350.70	20
21	357.06	355.08	365.85	370.98	370.29	370.16	368.22	365.24 E	361.85	358.04	353.97	350.63	21
22	356.97	355.09	366.96	370.79	370.27	370.16	368.13	365.13 E	361.71	357.91	353.87	350.58	22
23	356.86	355.10	368.74	371.85	370.27	370.16	368.04	365.03 E	361.58	357.78	353.73	350.52	23
24	356.77	355.11	370.41	370.68	370.25	370.13	367.94	364.93 E	361.47	357.64	353.59	350.47	24
25	356.68	355.11	370.26	370.48	370.21	370.13	367.85	364.82 E	361.32	357.51	353.45	350.40	25
26	356.58	355.11	370.25	370.42	370.21	370.12	367.78	364.72 E	361.18	357.37	353.34	350.33	26
27	356.50	355.11	370.16	370.44	370.20	370.09	367.72	364.61 E	361.07	357.25	353.19	350.27	27
28	356.39	355.12	370.16	370.39	370.20	370.03	367.64	364.51 E	360.94	357.10	353.10	350.21	28
29	356.28	355.12	370.14	370.34		370.00	367.56	364.40 E	360.81	356.97	353.00	350.17	29
30	356.18	355.12	370.15	370.30		369.94	367.47	364.30 E	360.70	356.81	352.88	350.10	30
31	356.10		370.13	370.30		369.89		364.20 E		356.68	352.76		31

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-23-70	2145	372.66									

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
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	1970

DATE	OCT	NOV.	DEC	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG	SEP	DATE
1	6.04 1.88	5.14 1.49	5.04 1.53	5.80 2.55	6.79 3.38	6.99 2.87	5.34 1.46	4.56 0.96	6.23 1.53	4.53 1.33	6.13 1.70	5.66 1.97	1
2	5.51 1.99	5.03 1.61	5.05 1.65	5.70 2.03	6.93 2.88	6.60 2.12	5.48 1.46	5.13 1.32	6.36 1.42	6.14 1.28	5.94 1.66	5.50 2.11	2
3	5.02 1.48	5.20 1.70	5.53 2.06	6.19 1.88	7.22 2.77	6.53 1.91	5.58 1.27	5.51 1.35	6.55 1.51	6.26 1.48	5.84 1.84	5.48 2.25	3
4	5.26 1.43	5.49 1.89	5.76 2.17	6.67 1.79	7.81 3.02	7.47 2.53	5.38 1.36	5.97 1.45	6.50 1.39	6.24 1.58	5.77 1.92	5.75 2.64	4
5	5.24 1.49	5.93 2.68	5.89 1.87	6.69 1.47	7.76 2.81	7.13 2.26	5.56 1.57	6.15 1.28	6.70 1.68	6.24 1.76	5.40 1.86	5.60 2.26	5
6	5.32 1.43	5.87 2.31	6.20 1.72	6.74 1.45	7.48 2.67	6.72 2.01	5.87 1.58	6.31 1.22	6.50 1.47	5.98 1.60	5.06 1.92	5.71 1.91	6
7	5.11 1.56	6.20 2.29	6.63 1.81	7.09 1.65	7.08 2.63	6.62 2.35	6.07 1.26	6.00 0.89	6.22 1.43	5.72 1.75	5.20 2.07	5.96 1.88	7
8	5.49 1.92	6.53 2.06	7.08 1.87	7.42 2.18	6.74 2.70	6.54 2.60	5.85 0.95	6.08 1.04	6.03 1.42	5.47 1.86	5.36 2.00	6.23 1.97	8
9	5.49 1.99	6.73 2.00	7.13 1.79	7.87 2.84	6.68 3.00	6.63 2.80	5.82 0.94	5.92 1.04	5.30 1.11	5.27 2.06	5.66 2.22	6.15 1.86	9
10	5.73 2.01	6.86 1.88	7.24 1.75	6.87 3.82	6.78 3.29	6.84 2.64	5.74 0.94	5.75 0.99	4.98 1.22	5.40 2.10	5.94 2.11	6.24 1.69	10
11	5.61 1.66	6.85 1.73	7.10 4.14	6.27 2.06	6.75 3.11	6.67 2.40	5.41 0.82	5.15 0.96	5.09 1.28	5.56 2.37	6.22 2.08	6.43 1.73	11
12	6.18 1.80	6.73 1.55	6.84 1.90	6.14 2.05	6.75 3.46	6.43 2.14	5.07 0.86	4.66 0.83	5.33 1.65	5.82 2.48	6.42 2.08	6.83 2.00	12
13	6.57 1.93	6.45 3.83	6.31 1.88	6.39 2.32	6.85 3.13	6.09 2.02	5.48 1.84	4.64 0.84	5.75 2.19	6.06 2.17	6.58 1.96	5.42 2.13	13
14	6.52 3.40	6.35 1.47	5.74 1.74	7.01 2.96	6.26 2.43	5.85 2.00	4.58 0.84	4.93 1.01	5.73 1.93	6.37 2.03	4.88 1.87	6.29 1.84	14
15	6.98 1.71	6.13 1.66	5.69 1.75	6.66 2.84	6.09 2.27	5.39 1.78	4.45 1.01	5.24 1.46	6.11 1.52	6.55 1.93	6.70 1.94	5.98 1.88	15
16	6.67 2.08	5.45 1.80	6.09 2.00	7.55 3.58	6.54 3.03	5.32 1.68	4.81 1.27	5.61 1.92	6.48 1.49	4.65 1.74	6.60 1.90	5.86 2.05	16
17	6.33 1.84	5.11 1.42	6.22 2.40	7.19 3.51	6.46 2.30	5.12 1.51	4.95 1.37	4.68 1.89	4.54 1.32	6.59 1.57	6.45 1.95	5.96 1.92	17
18	5.94 1.68	5.05 1.41	6.23 2.10	7.22 3.64	6.11 1.96	4.82 1.49	5.02 1.32	5.96 1.76	6.48 1.17	6.74 1.71	6.15 2.02	6.23 2.63	18
19	5.54 1.47	5.20 1.45	7.07 2.62	7.57 4.19	5.78 1.86	5.19 1.50	4.98 1.45	6.13 1.47	6.62 1.19	6.64 1.65	5.88 2.18	6.34 2.06	19
20	5.57 1.43	5.72 1.72	7.23 2.51	7.40 3.97	6.27 2.22	5.52 1.66	4.94 0.86	6.19 1.06	6.73 1.58	6.50 1.78	5.94 2.13	6.18 1.93	20
21	5.68 1.63	6.19 1.80	7.54 2.46	7.63 4.24	6.22 2.29	5.40 1.79	5.47 1.07	6.26 1.04	6.68 1.61	6.19 1.76	6.11 2.37	5.78 1.81	21
22	5.89 2.12	6.36 1.68	6.75 1.89	7.45 4.30	5.81 2.20	5.39 1.98	5.56 0.82	6.48 1.09	6.47 1.56	5.76 1.77	6.09 2.27	5.50 1.45	22
23	6.07 2.20	6.18 1.45	6.98 2.30	8.04 5.70	5.56 2.40	5.53 1.98	5.58 0.82	6.47 0.98	6.30 1.72	5.79 2.12	6.00 1.96	5.56 1.44	23
24	6.21 1.98	6.15 1.40	6.81 2.04	7.56 4.88	5.75 2.81	5.66 1.84	5.71 0.82	6.44 1.21	5.59 1.51	5.95 2.41	6.02 1.72	5.42 1.53	24
25	6.21 1.73	6.16 1.42	6.87 2.20	7.11 5.79	6.02 2.72	5.90 1.70	5.88 0.85	6.69 1.55	5.48 1.63	6.04 2.52	6.03 1.66	5.30 1.46	25
26	6.36 1.74	6.01 1.48	6.21 1.94	6.77 4.98	6.01 2.57	6.04 1.68	6.05 0.89	6.14 1.33	5.80 2.01	6.23 2.21	6.00 1.60	4.82 1.48	26
27	6.33 1.65	5.94 3.99	5.41 1.70	7.15 5.06	6.25 2.62	5.72 1.49	5.92 0.97	5.76 1.41	5.93 2.32	6.36 2.11	6.03 1.56	5.37 1.67	27
28	6.08 1.47	5.70 1.52	5.27 1.66	6.37 4.62	6.51 2.84	6.00 1.50	5.13 0.82	5.44 1.24	6.08 1.84	6.33 1.99	4.91 1.68	5.42 1.89	28
29	5.90 3.88	5.35 1.57	5.32 1.82	6.39 4.28		5.90 1.50	4.83 0.82	5.57 1.50	6.00 1.48	4.74 1.77	6.18 1.95	5.39 2.12	29
30	5.59 1.44	4.90 1.52	5.40 2.02	6.75 4.23		5.75 1.48	4.90 0.84	5.85 1.73	6.13 1.28	6.27 1.76	6.16 1.94	5.46 2.15	30
31	5.34 1.45		5.46 2.26	6.77 3.87		5.50 1.47		4.43 1.43		6.18 1.70	5.90 1.92		31
MAXIMUM	6.98	6.86	7.54	8.04	7.81	7.47	6.07	6.69	6.73	6.74	6.70	6.83	MAXIMUM
MINIMUM	1.43	1.40	1.53	1.45	1.86	1.47	0.82	0.83	1.11	1.28	1.56	1.44	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	1970

DATE	OCT	NOV.	DEC	JAN.	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	DATE
1	NR NR	2.36 -2.07	2.32 0.45	2.82 -1.10	3.58 -1.78	4.15 -1.35	2.60 -3.51	NR NR	3.70 -2.60	3.58 -2.98	3.41 -2.54	NR NR	1
2	NR NR	2.22 -1.80	2.36 -0.21	2.79 -1.98	3.80 -2.53	3.71 -2.35	2.78 -3.18	NR NR	3.77 -2.93	3.71 -3.02	3.29 -2.54	NR NR	2
3	2.16 -2.03	2.39 -1.76	2.88 -1.20	3.21 -2.48	4.13 -2.87	3.70 -2.86	3.01 -2.89	NR NR	2.17 -3.03	3.71 -2.78	3.13 -2.26	NR NR	3
4	2.43 -2.02	2.69 -1.59	3.09 -1.41	3.79 -2.80	4.76 -2.82	4.73 -2.32	2.71 -2.75	NR NR	3.77 -2.98	3.64 -2.72	3.08 -2.05	NR NR	4
5	2.43 -1.97	3.21 -0.79	3.27 -1.93	3.90 -3.28	4.81 -3.08	4.38 -2.80	3.05 -2.52	NR NR	3.77 -2.79	3.44 -2.51	2.66 -2.02	NR NR	5
6	2.48 -2.10	3.26 -1.39	3.59 -2.22	4.09 -3.37	4.65 -3.05	4.05 -3.01	3.39 -2.65	NR NR	3.57 -2.91	3.24 -2.60	2.39 -1.87	NR NR	6
7	2.63 -2.06	3.63 -1.44	4.04 -2.36	4.54 -3.04	4.31 -2.84	3.99 -2.47	3.43 -3.07	NR NR	3.28 -2.68	2.88 -2.35	2.58 -1.61	NR NR	7
8	2.67 -1.73	4.00 -1.87	4.57 -2.45	4.85 -2.55	3.90 -2.43	3.88 -2.07	3.24 -3.38	NR NR	3.07 -2.61	2.57 -2.21	2.79 -1.22	NR NR	8
9	2.73 -1.69	4.14 -2.14	4.56 -2.66	5.43 -1.80	3.96 -1.70	4.03 -1.76	3.15 -3.32	3.03 -3.16	2.61 -2.68	2.58 -1.87	3.06 -1.25	NR NR	9
10	3.07 -1.73	4.24 -2.37	4.66 -2.74	4.23 -2.51	4.10 -1.20	4.14 -1.90	2.94 -3.22	2.87 -3.05	2.16 -2.45	2.71 -1.65	3.17 -1.42	NR NR	10
11	3.04 -2.15	4.21 -2.57	4.51 -2.47	3.57 -2.32	4.00 -1.26	3.98 -2.07	2.55 -3.22	2.28 -2.86	2.31 -2.19	2.77 -1.16	3.42 -1.70	NR NR	11
12	3.54 -2.08	4.07 -2.75	4.22 -2.43	3.48 -1.82	3.94 -0.88	3.64 -2.28	2.27 -2.85	1.87 -2.92	2.65 -1.68	3.13 -1.29	NR NR	NR NR	12
13	3.89 -2.04	3.76 -2.78	3.62 -2.49	3.66 -0.74	3.96 -1.15	3.26 -2.16	2.40 -2.07	1.84 -2.68	2.92 -1.17	3.37 -1.64	NR NR	NR NR	13
14	3.82 -2.26	3.58 -2.49	2.95 0.09	4.18 -0.63	3.39 -1.76	2.96 -2.03	1.74 -2.78	2.23 -2.31	2.98 -1.70	3.63 -2.04	NR NR	NR NR	14
15	4.26 -1.81	3.32 0.83	3.06 -2.35	3.76 -1.31	3.24 -2.04	2.50 -2.11	2.07 -2.54	2.53 -1.78	3.38 -2.31	3.77 -2.39	NR NR	NR NR	15
16	3.75 1.02	2.75 -2.23	3.46 -1.92	4.44 -1.14	3.71 -1.23	2.43 -2.29	2.31 -2.26	2.88 -1.47	3.68 -2.53	3.98 -2.71	NR NR	NR NR	16
17	3.40 -2.19	2.45 -2.71	3.59 -1.40	4.06 -1.73	3.56 -2.44	2.26 -2.57	2.31 -2.34	3.13 -1.86	3.70 -2.92	4.15 -2.95	NR NR	3.47 -2.10	17
18	3.13 -2.30	2.49 -2.58	3.58 -1.86	4.05 -1.82	3.25 -2.86	2.18 -2.88	NR NR	3.32 -2.17	3.90 -3.29	4.08 -2.98	NR NR	3.63 -2.04	18
19	2.76 -2.48	2.67 -2.26	4.43 -1.38	4.38 -1.64	3.10 -2.76	2.54 -2.73	NR NR	3.47 -2.60	2.10 -3.32	4.09 -3.00	NR NR	3.63 -2.08	19
20	2.82 -2.58	3.21 -2.17	4.61 -1.67	4.23 -1.74	3.47 -2.45	2.72 -2.55	NR NR	1.75 -3.18	4.12 -3.22	4.01 -2.81	NR NR	3.30 -2.13	20
21	2.94 -2.31	3.63 -2.22	4.67 -1.97	4.45 -1.41	3.39 -2.40	2.64 -2.31	NR NR	3.58 -3.40	4.00 -3.19	3.61 -2.61	NR NR	2.99 -2.15	21
22	3.24 -1.76	3.77 -2.48	3.93 -2.56	4.22 -1.45	3.03 -2.26	2.69 -1.99	NR NR	3.75 -3.42	3.79 -2.99	3.17 -2.37	NR NR	2.71 -2.37	22
23	3.46 -1.79	3.57 -2.77	4.18 -2.03	4.75 -0.35	2.76 -1.68	2.87 -2.07	NR NR	3.72 -3.45	3.57 -2.75	3.26 -1.89	NR NR	2.75 -2.25	23
24	3.62 -2.08	3.50 -2.89	4.02 -2.43	4.17 -0.91	3.06 -1.12	3.00 -2.24	NR NR	3.72 -3.06	2.74 -2.77	3.38 -1.50	NR NR	2.62 -2.21	24
25	3.62 -2.38	3.45 -2.75	3.90 -2.42	3.66 -0.73	3.23 -1.35	3.28 -2.41	NR NR	3.75 -2.80	2.87 -2.38	3.43 -1.44	NR NR	2.54 -2.27	25
26	3.69 -2.44	3.36 -2.55	3.29 -2.75	3.35 -0.21	NR NR	3.36 -2.41	NR NR	3.14 -2.96	3.26 -1.75	3.60 -1.77	NR NR	2.58 -2.25	26
27	3.59 -2.51	3.21 -2.47	2.46 -2.87	3.82 -0.51	NR NR	3.05 -2.86	NR NR	2.78 -2.57	3.34 -1.57	3.65 -1.94	NR NR	2.70 -2.09	27
28	3.32 -2.60	2.94 -2.32	2.30 -2.45	3.08 -0.26	3.74 -1.09	3.21 -2.70	NR NR	2.81 -2.60	3.50 -2.12	3.63 -2.02	NR NR	2.65 -1.79	28
29	3.14 -2.47	2.66 -2.18	2.29 -1.94	3.18 -0.33		3.08 -2.72	NR NR	3.00 -2.19	3.41 -2.63	3.62 -2.31	NR NR	2.71 -1.58	29
30	2.81 -2.33	2.19 -1.98	2.34 -0.02	3.47 -0.62		2.89 -2.94	NR NR	3.30 -2.05	3.52 -2.99	3.55 -2.40	NR NR	2.82 -1.54	30
31	2.58 1.16		2.45 -0.59	3.51 -1.13		2.71 -3.27		3.63 -2.42		3.43 -2.51	NR NR		31
MAXIMUM	NR	4.24	4.67	5.43	NR	4.73	NR	NR	4.12	4.15	NR	NR	MAXIMUM
MINIMUM	NR	-2.89	-2.87	-3.37	NR	-3.27	NR	NR	-3.32	-3.02	NR	NR	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 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 machine process the data it was necessar to avoid negative ga heights. Subtract 10.00 feet to obtain gage heights.
Bulletin No. 130-67	45		Suisun Bay at Benicia Arsnnal	Daily Maximum and Minimum Tides		Notation: In order machine process the data it was necessar to avoid negative ga heights. Subtract 10.00 feet to obtain gage heights.

Appendix C

GROUND WATER MEASUREMENTS

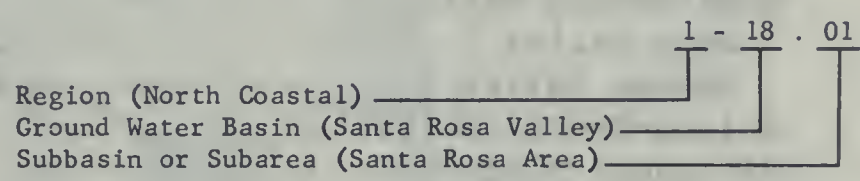
INTRODUCTION

This appendix contains ground water level measurements from 403 wells for the period October 1, 1969, through September 30, 1970. It contains tables which summarize the measurements and bar graphs of average depth to water in selected basins.

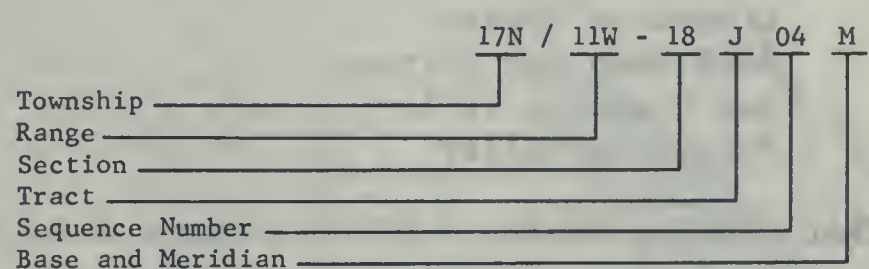
There are 28 ground water basins or areas in the Central Coastal Area for which data are reported. Wells are selected to reflect the ground water conditions of the area. These wells are continuously reviewed, and when conditions dictate, replacement wells are located and measured.

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 13200 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

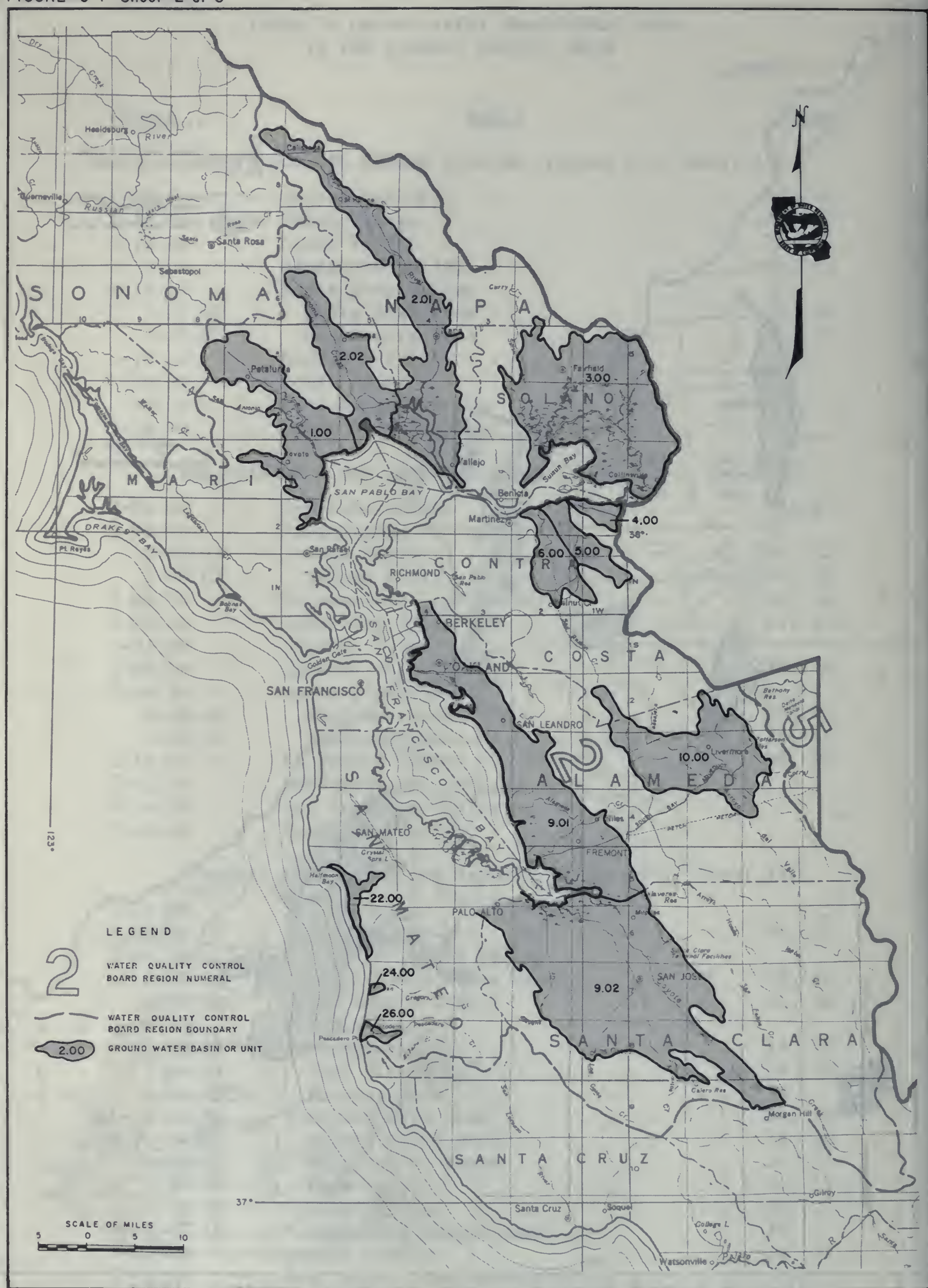
Sequence numbers in a tract are generally assigned in chronological order. The example designates the fourth well to be assigned a number in Tract J.

INDEX TO GROUND WATER MEASUREMENT DATA
IN THE CENTRAL COASTAL AREA

Number	Basin	Page
	NORTH COASTAL REGION 1-00.00 (Figure C-1, Sheet 1)	
1-14.00	Potter Valley	34, 41
1-15.00	Ukiah Valley	34, 41
1-16.00	Sanel Valley	34, 41
1-17.00	Alexander Valley	34, 41
1-18.00	Santa Rosa Valley	
1-18.01	Santa Rosa Area	34, 41
1-18.02	Healdsburg Area	34, 41
1-19.00	Anderson Valley	
1-20.00	Point Arena	
1-21.00	Fort Bragg Terrace	
1-98.00	Lower Russian River Valley	
	SAN FRANCISCO BAY REGION 2-00.00 (Figure C-1, Sheet 2)	
2-01.00	Petaluma Valley	34, 42
2-02.00	Napa-Sonoma Valley	
2-02.01	Napa Valley	34, 42
2-02.02	Sonoma Valley	34, 43
2-03.00	Suisun-Fairfield Valley	34, 43
2-04.00	Pittsburg Plain	34, 44
2-05.00	Clayton Valley	
2-06.00	Ygnacio Valley	34, 44
2-09.00	Santa Clara Valley	
2-09.01	East Bay Area	34, 44
2-09.02	South Bay Area	34, 45
2-10.00	Livermore Valley	34, 46
2-22.00	Half Moon Bay Terrace	
2-24.00	San Gregorio Valley	
2-26.00	Pescadero Valley	
	CENTRAL COASTAL REGION 3-00.00 (Figure C-1, Sheet 3)	
3-01.00	Soquel Valley	
3-02.00	Pajaro Valley	34, 48
3-03.00	Gilroy-Hollister Valley	
3-03.01	South Santa Clara County	34, 48
3-03.02	San Benito County	34, 50
3-04.00	Salinas Valley	
3-04.01	Pressure Area	34, 50
3-04.02	East Side Area	34, 50
3-04.03	Forebay Area	34
3-04.04	Arroyo Seco Cone	34, 50
3-04.05	Upper Valley Area	34, 50
3-04.06	Paso Robles Basin	34, 51
3-04.08	Seaside Area	34, 51
3-04.09	Langley Area	34
3-04.10	Corral De Tierra Area	34
3-07.00	Carmel Valley	34, 51
3-26.00	West Santa Cruz Terrace	

GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

FIGURE C-1 Sheet 2 of 3



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

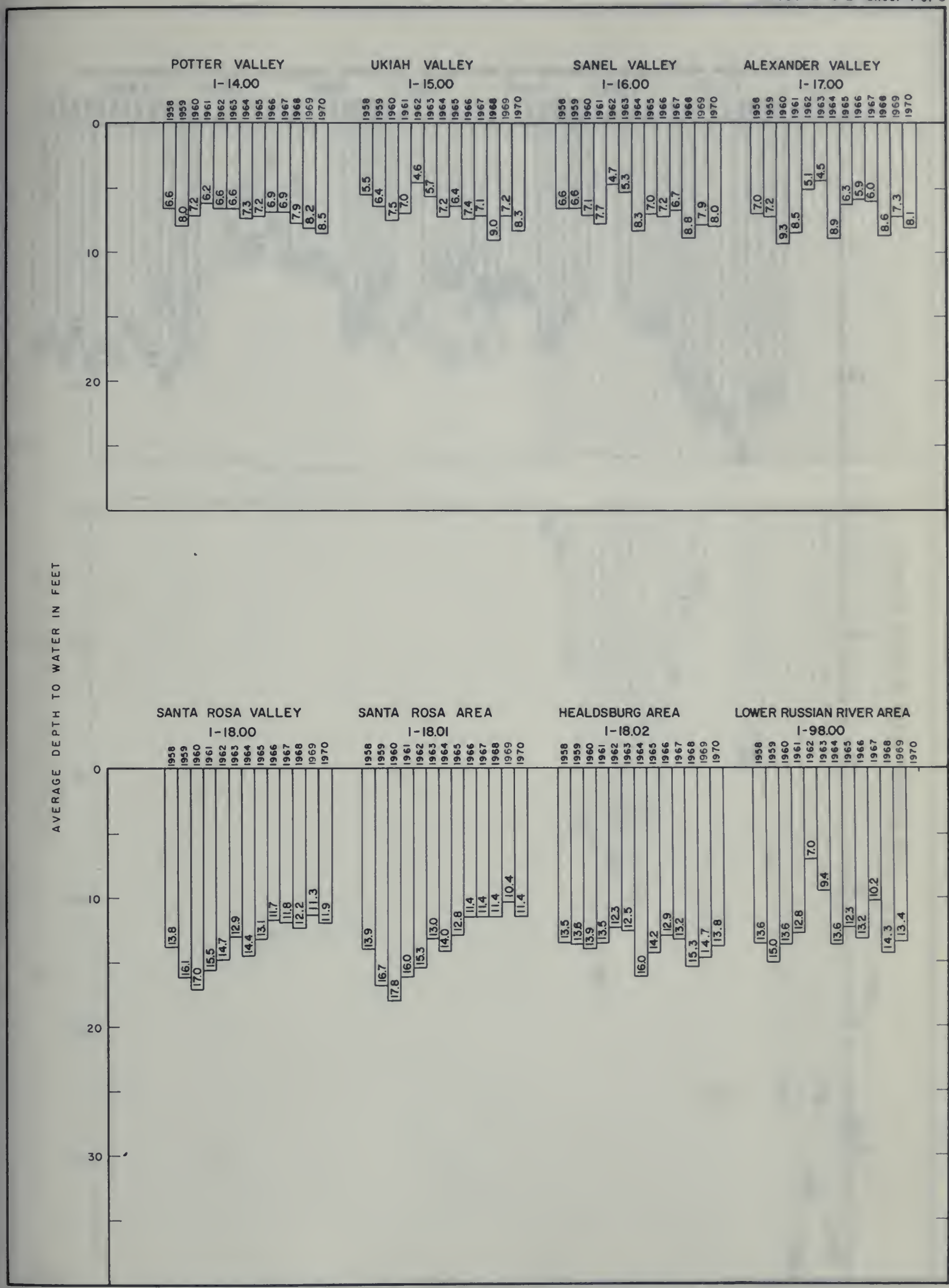
GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

TABLE C-1

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

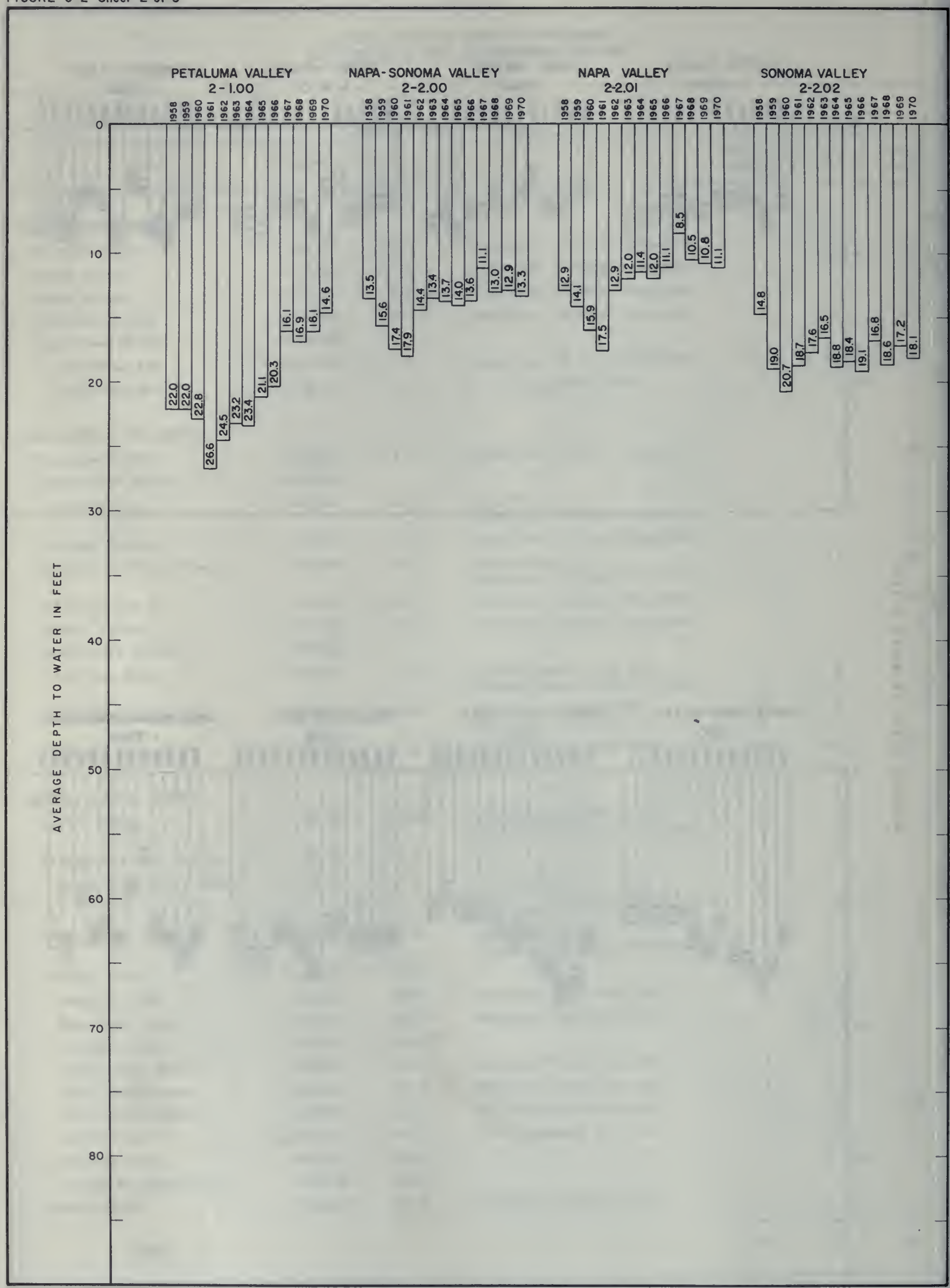
Ground Water Basin or Area		Average Change Spring 1969 to Spring 1970 in Feet	Measuring Agency	Number of Wells Reported		
Name	Number			Monthly 1969-70	Fall 1969	Spring 1970
NORTH COASTAL REGION						
Potter Valley	1-14.00	-0.3	Department of Water Resources		2	2
Ukiah Valley	1-15.00	-1.1	Department of Water Resources		2	2
Sanel Valley	1-16.00	-0.1	Department of Water Resources		3	3
Alexander Valley	1-17.00	-0.8	Department of Water Resources		6	6
Santa Rosa Valley	1-18.00					
Santa Rosa Area	1-18.01	-1.0	Department of Water Resources		13	13
Healdsburg Area	1-18.02	+0.9	U. S. Geological Survey	9		
SAN FRANCISCO BAY REGION						
Petaluma Valley	2-01.00	+1.5	Department of Water Resources			6
Napa-Sonoma Valley	2-02.00					
Napa Valley	2-02.01	-0.3	Napa County			112
			Department of Water Resources		5	5
Sonoma Valley	2-02.02	-0.9	Department of Water Resources			5
Suisun-Fairfield Valley	2-03.00	-1.5	Solano County		17	16
			Department of Water Resources	7		
Pittsburg Plain	2-04.00	-0.2	Department of Water Resources			6
Ygnacio Valley	2-06.00	-2.1	Department of Water Resources			5
Santa Clara Valley	2-09.00					
East Bay Area	2-09.01	-2.3	Alameda County FC & WCD	3	6	6
			Alameda County Water District	3	3	2
South Bay Area	2-09.02	+5.6	Santa Clara Valley WCD	17	3	3
			U. S. Geological Survey	3		
Livermore Valley	2-10.00	-0.6	Alameda County FC & WCD	8	58	58
CENTRAL COASTAL REGION						
Pajaro Valley	3-02.00	+0.6*	Monterey County FC & WCD		5	
			Department of Water Resources	6		
Gilroy-Hollister Valley	3-03.00	+2.2				
South Santa Clara County	3-03.01	-4.5	City of Gilroy	5		
			Santa Clara Valley WCD	10		
			Department of Water Resources	5	2	2
San Benito County	3-03.02	+5.0	San Benito County			2
			Department of Water Resources	5		
Salinas Valley	3-04.00	+0.8				
Pressure Area	3-04.01	+0.8*	Monterey County FC & WCD	3	4	
East Side Area	3-04.02	+2.2*	Monterey County FC & WCD		1	
Forebay Area	3-04.03	-0.2*				
Arroyo Seco Cone	3-04.04	+5.4*	Monterey County FC & WCD	2		
Upper Valley Area	3-04.05	+1.1*	Monterey County FC & WCD	3	2	
Paso Robles Basin	3-04.06	-5.2	San Luis Obispo FC & WCD		23	43
Seaside Area	3-04.08	+0.7*	Post Engineer, Fort Ord	2		
Langley Area	3-04.09	+2.2*				
Corral de Tierra Area	3-04.10	+2.9*				
Carmel Valley	3-07.00	+4.5*	Monterey County FC & WCD	4		
TOTAL				92	155	297

*Average change determined from water level measurements made during fall of 1968 and fall of 1969.

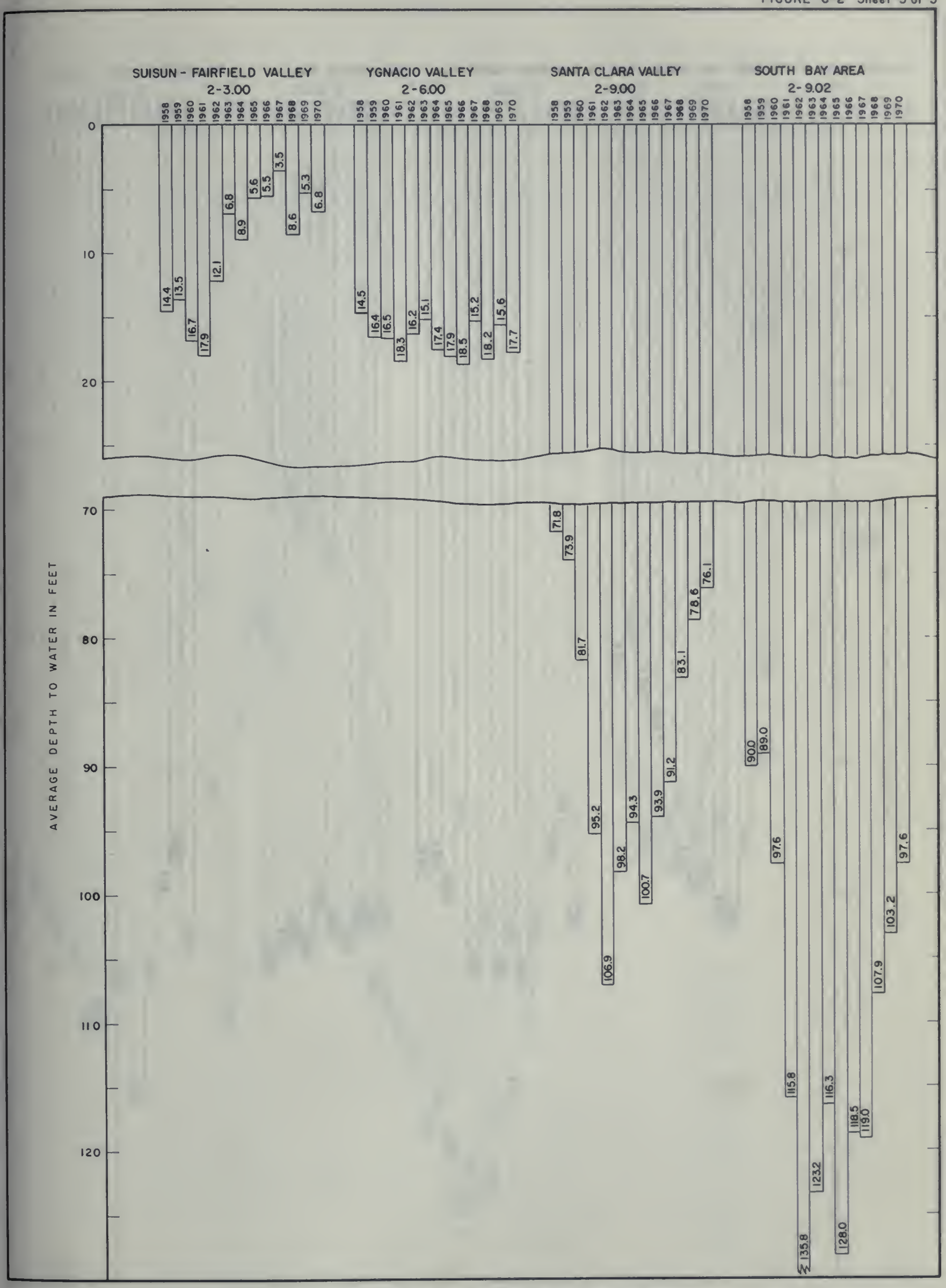


AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1970

FIGURE C-2 Sheet 2 of 5

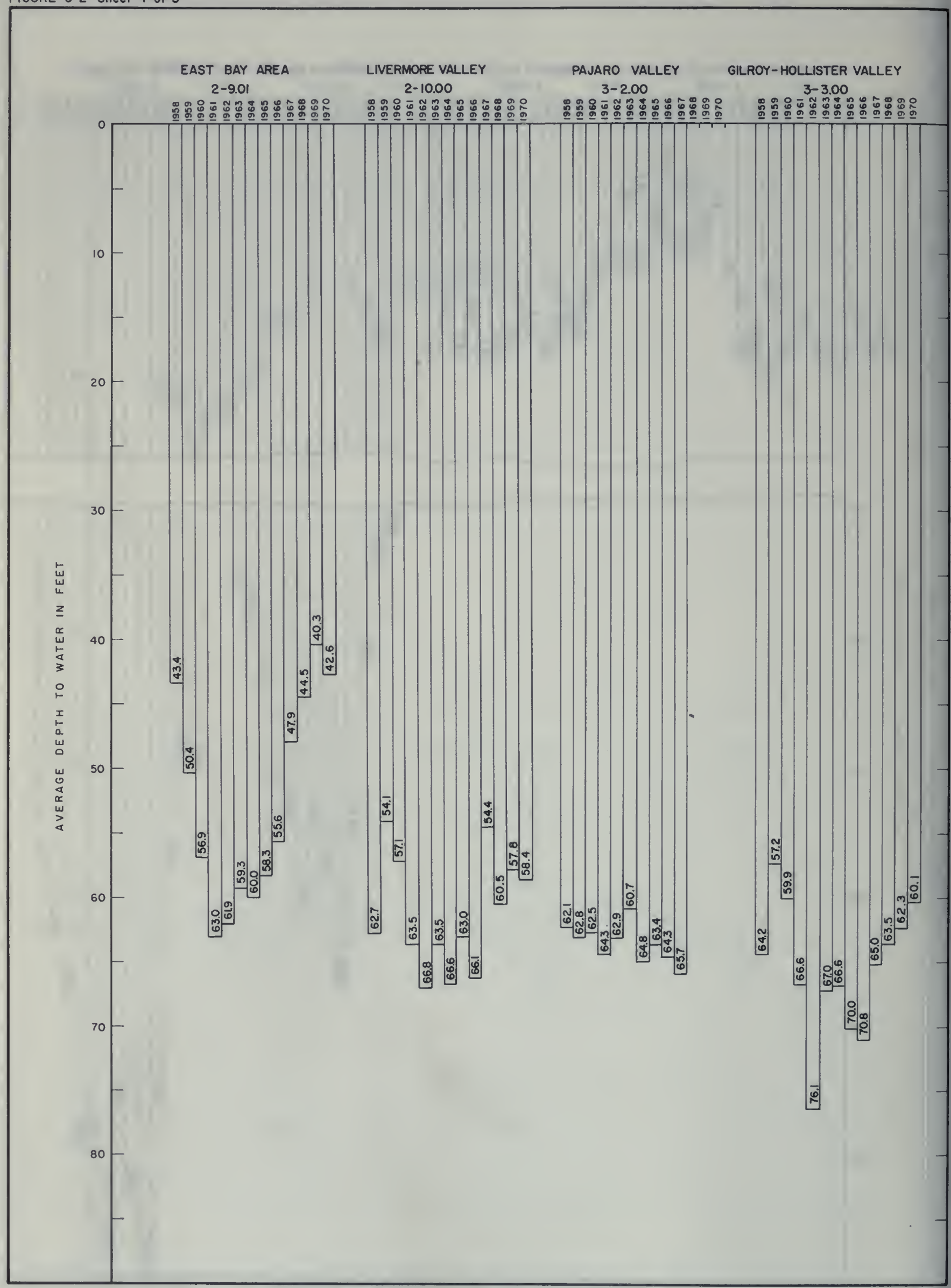


AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1970

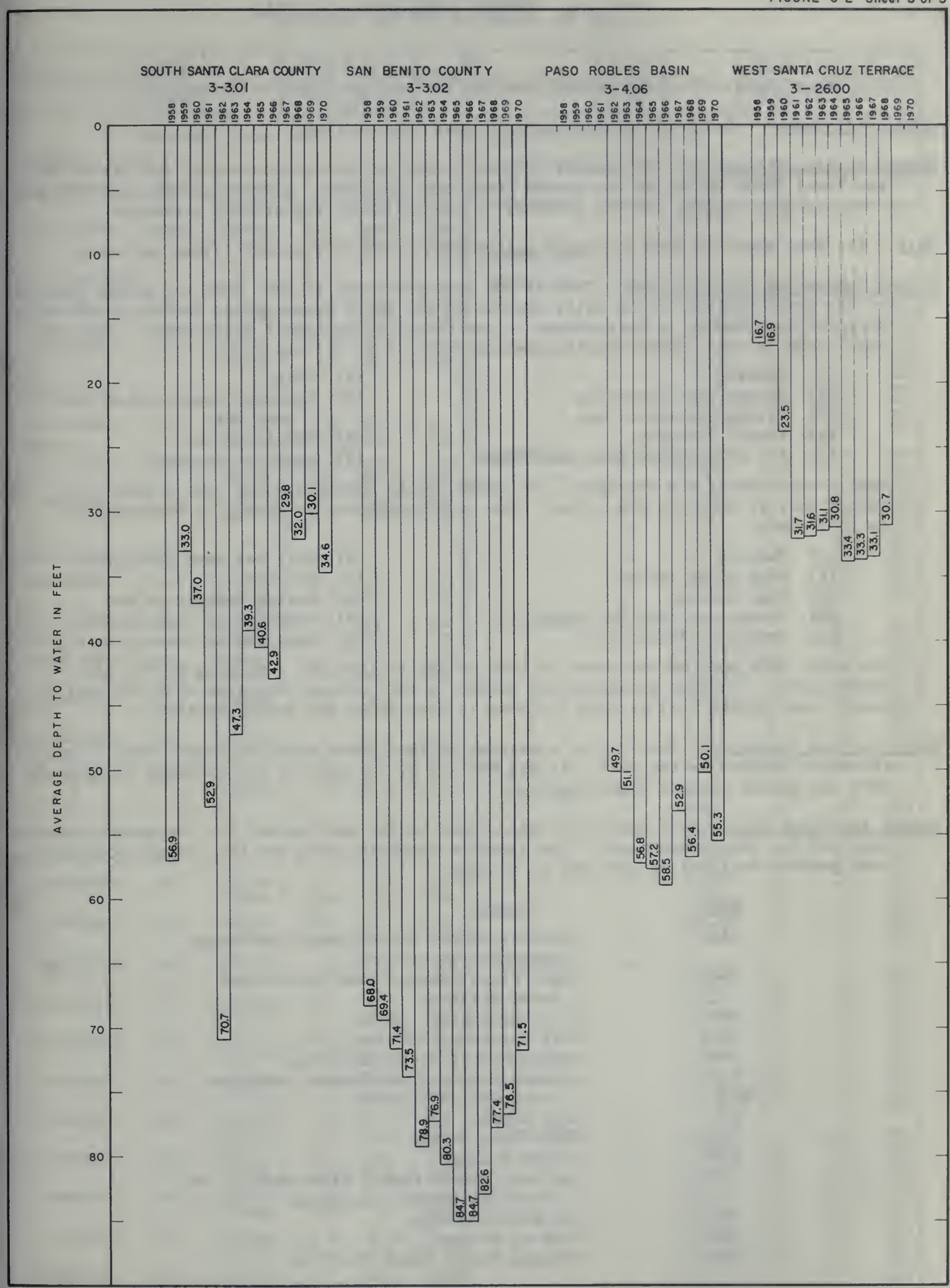


AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1970

FIGURE C-2 Sheet 4 of 5



AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1970



AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1970

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 County Flood Control and Water 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

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION 1-00.00					
POTTER VALLEY 1-14.00					
17N/11W-18J01M	955.0	10-08-69	0.5	954.5	5050
		3-26-70	-0.3	955.3	5050
17N/11W-32J01M	905.0	10-08-69	2.5	902.5	5050
		3-26-70	2.7	902.3	5050
UKIAH VALLEY 1-15.00					
15N/12W-08L01M	640.0	10-08-69	26.9	613.1	5050
		3-26-70	17.8	622.2	5050
15N/12W-35M01M	600.0	10-08-69	7.8	592.2	5050
		3-26-70	3.3	596.7	5050
SANEL VALLEY 1-16.00					
13N/11W-18E01M	490.0	10-08-69	12.5	477.5	5050
		3-26-70 (1)	10.2	479.8	5050
13N/11W-19P01M	488.0	10-08-69	18.6	469.4	5050
		3-26-70	8.9	479.1	5050
13N/11W-20G01M	515.0	10-08-69	12.7	502.3	5050
		3-26-70	4.7	510.3	5050
ALEXANDER VALLEY 1-17.00					
10N/09W-18B01M	230.0	10-08-69	20.7	209.3	5050
		3-26-70	14.9	215.1	5050
10N/09W-26L02M	205.0	10-08-69	17.9	187.1	5050
		3-26-70	1.6	203.4	5050
10N/09W-33C01M	180.0	10-08-69	8.5	171.5	5050
		3-26-70	5.5	174.5	5050
11N/10W-08P01M	305.0	10-08-69	12.0	293.0	5050
		3-26-70	8.1	296.9	5050
11N/10W-17P02M	292.0	10-08-69	9.4	282.6	5050
		3-26-70	7.4	284.6	5050
11N/10W-19F02M	346.0	10-08-69	13.4	332.6	5050
		3-26-70	5.3	340.7	5050
SANTA ROSA VALLEY 1-18.00					
SANTA ROSA AREA 1-18.01					
6N/08W-07P02M	95.0	10-07-69	32.7	62.3	5050
		3-25-70	22.6	72.4	5050
6N/08W-13R01M	115.0	10-07-69	25.8	89.2	5050
		3-25-70	15.0	100.0	5050
6N/08W-15J03M	95.0	10-07-69	26.0	69.0	5050
		3-25-70	13.5	81.5	5050
6N/08W-15R01M	95.0	10-07-69	31.5	63.5	5050
		3-25-70	20.4	74.6	5050
7N/06W-19N01M	465.0	10-07-69	26.5	438.5	5050
		3-25-70	4.4	460.6	5050
7N/07W-06R01M	275.0	10-07-69	13.0	262.0	5050
		3-25-70	5.0	270.0	5050
7N/08W-11M01M	160.0	10-07-69	9.0	151.0	5050
		3-25-70	6.9	153.1	5050
7N/08W-24H01M	190.0	10-07-69	12.0	178.0	5050
		3-25-70	9.6	180.4	5050
7N/08W-24H02M	190.0	10-07-69	(8)		5050
		3-25-70	(8)		5050
7N/09W-01C01M	90.0	10-08-69	22.9	67.1	5050
		3-26-70	20.4	69.6	5050
7N/09W-35D02M	135.0	10-07-69	36.4	98.6	5050
		3-25-70	29.0	106.0	5050
SANTA ROSA AREA 1-18.01 (Continued)					
8N/09W-36N01M	90.0	10-08-69	9.8	80.2	5050
		3-26-70	5.0	85.0	5050
8N/09W-36P01M	90.0	10-08-69	55.2	34.8	5050
		3-26-70	51.0	39.0	5050
HEALDSBURG AREA 1-18.02					
8N/09W-03P01M	77.0	10-15-69	8.9	68.1	5000
		11-14-69 (1)	10.1	66.9	5000
		12-15-69	7.8	69.2	5000
		1-19-70 (1)	6.7	70.3	5000
		2-16-70	4.6	72.4	5000
		3-13-70	4.6	72.4	5000
		4-15-70	10.4	66.6	5000
		5-15-70 (4)	6.8	70.2	5000
		6-15-70	8.1	68.9	5000
		7-15-70	7.8	69.2	5000
		8-14-70	8.8	68.2	5000
		9-15-70 (4)	8.8	68.2	5000
8N/09W-22L01M	67.0	10-15-69	35.1	31.9	5000
		11-14-69	31.0	36.0	5000
		12-15-69	29.9	37.1	5000
		1-19-70	19.8	47.2	5000
		2-16-70	24.0	43.0	5000
		3-13-70	25.0	42.0	5000
		4-15-70	31.7	35.3	5000
		5-15-70	30.4	36.6	5000
		6-15-70	35.1	31.9	5000
		7-15-70	33.3	33.7	5000
		8-14-70	34.5	32.5	5000
		9-15-70	31.8	35.2	5000
9N/09W-20E02M	100.0	10-15-69	20.0	80.0	5000
		11-14-69	18.2	81.8	5000
		12-15-69 (1)	14.4	85.6	5000
		1-19-70	13.3	86.7	5000
		2-16-70 (1)	14.6	85.4	5000
		3-13-70	15.4	84.6	5000
		4-15-70 (1)	18.0	82.0	5000
		5-15-70 (1)	26.1	73.9	5000
		6-15-70	18.0	82.0	5000
		7-15-70	19.2	80.8	5000
		8-14-70	22.2	77.8	5000
		9-15-70 (1)	19.2	80.8	5000
9N/09W-20K04M	97.0	10-15-69	7.2	89.8	5000
		11-14-69	6.2	90.8	5000
		12-15-69	4.9	92.1	5000
		1-19-70	0.6	96.4	5000
		2-16-70	1.1	95.9	5000
		3-13-70	1.2	95.8	5000
		4-15-70	3.4	93.6	5000
		5-15-70	4.5	92.5	5000
		6-15-70	5.1	91.9	5000
		7-15-70	5.9	91.1	5000
		8-14-70	6.7	90.3	5000
		9-15-70	7.1	89.9	5000
9N/09W-28N01M	90.0	10-15-69	26.0	64.0	5000
		11-14-69	19.2	70.8	5000
		12-15-69	15.8	74.2	5000
		1-19-70	14.7	75.3	5000
		2-16-70	15.9	74.1	5000
		3-13-70	17.0	73.0	5000
		4-15-70	18.2	71.8	5000
		5-15-70	18.5	71.5	5000
		6-15-70	19.0	71.0	5000
		7-15-70	21.7	68.3	5000
		8-14-70 (4)	23.8	66.2	5000
		9-15-70	25.5	64.5	5000
9N/10W-12C01M	120.0	10-15-69	14.4	105.6	5000
		11-14-69	14.0	106.0	5000
		12-15-69	12.5	107.5	5000
		1-19-70	9.9	110.1	5000
		2-16-70	12.2	107.8	5000
		3-13-70	13.0	107.0	5000
		4-15-70	13.9	106.1	5000
		5-15-70	14.2	105.8	5000
		6-15-70	14.9	105.1	5000
		7-15-70 (1)	18.9	101.1	5000
		8-14-70	14.8	105.2	5000
		9-15-70	14.9	105.1	5000

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
HEALDSBURG AREA 1-18.02 (Continued)					
10N/10W-22D01M	180.0	10-15-69	10.8	169.2	5000
		11-14-69	5.3	174.7	5000
		12-15-69	3.7	176.3	5000
		1-19-70	4.4	175.6	5000
		2-16-70	(7)		5000
		3-13-70	8.1	171.9	5000
		4-15-70	9.6	170.4	5000
		5-15-70	(1) 13.2	166.8	5000
		6-15-70	(1) 13.7	166.3	5000
		7-15-70	21.2	158.8	5000
		8-14-70	11.8	168.2	5000
		9-15-70	11.4	168.6	5000
10N/10W-26M01M	161.0	10-15-69	13.9	147.1	5000
		11-14-69	11.1	149.9	5000
		12-15-69	9.2	151.8	5000
		1-19-70	4.7	156.3	5000
		2-16-70	7.4	153.6	5000
		3-13-70	9.1	151.9	5000
		4-15-70	10.4	150.6	5000
		5-15-70	10.9	150.1	5000
		6-15-70	11.2	149.8	5000
		7-15-70	11.5	149.5	5000
		8-14-70	12.4	148.6	5000
		9-15-70	13.2	147.8	5000
10N/10W-35Q01M	142.0	10-15-69	5.8	136.2	5000
		11-14-69	6.0	136.0	5000
		12-15-69	4.7	137.3	5000
		1-19-70	0.2	141.8	5000
		2-16-70	0.6	141.4	5000
		3-13-70	0.8	141.2	5000
		4-15-70	2.4	139.6	5000
		5-15-70	2.2	139.8	5000
		6-15-70	2.6	139.4	5000
		7-15-70	3.8	138.2	5000
		8-14-70	4.9	137.1	5000
		9-15-70	5.7	136.3	5000
SAN FRANCISCO BAY REGION 2-00.00					
PETALUMA VALLEY 2-01.00					
3N/06W-01Q01M	2.0	3-25-70	FLOW		5050
5N/07W-19N01M	45.0	3-25-70	3.5	41.5	5050
5N/07W-20B02M	41.0	3-25-70	43.9	-2.9	5050
5N/07W-21H01M	65.0	3-25-70	22.5	42.5	5050
5N/07W-26R01M	53.6	3-25-70	15.3	38.3	5050
5N/07W-35K01M	18.8	3-25-70	6.4	12.4	5050
NAPA-SONOMA VALLEY 2-02.00					
NAPA VALLEY 2-02.01					
4N/04W-02L01M	25.0	3-23-70	6.3	18.7	5101
4N/04W-04C01M	12.0	3-23-70	5.9	6.1	5101
4N/04W-05B01M	31.0	3-23-70	8.7	22.3	5101
4N/04W-05D02M	22.0	3-23-70	3.1	18.9	5101
4N/04W-12M01M	48.0	3-23-70	13.8	34.2	5101
4N/04W-14C02M	34.0	3-23-70	30.4	3.6	5101
4N/04W-25K01M	37.0	3-23-70	2.2	34.8	5101
5N/03W-05M01M	255.0	3-23-70	95.0	160.0	5101
5N/04W-03G01M	18.0	3-23-70	5.0	13.0	5101
5N/04W-04G01M	63.5	3-23-70	32.3	31.2	5101
5N/04W-04Q01M	58.0	3-23-70	10.8	47.2	5101
5N/04W-05P01M	121.0	3-23-70	1.5	119.5	5101
5N/04W-05P02M	122.0	3-24-70	12.5	109.5	5101
NAPA VALLEY 2-02.01					
5N/04W-10F01M	30.0	3-24-70	3.6	26.4	5101
5N/04W-11F03M	16.0	3-24-70	9.7	6.3	5101
5N/04W-11M01M	13.0	10-07-69	8.9	4.1	5050
		3-27-70	7.0	6.0	5050
5N/04W-12F01M	130.0	3-24-70	33.6	96.4	5101
5N/04W-12H01M	121.0	3-24-70	51.7	69.3	5101
5N/04W-13H01M	132.0	3-24-70	8.9	123.1	5101
5N/04W-13H02M	120.0	3-24-70	(4)		5101
5N/04W-14C01M	17.0	3-24-70	15.8	1.2	5101
5N/04W-15C02M	22.0	3-24-70	18.8	3.2	5101
5N/04W-15E01M	22.0	3-24-70	15.5	6.5	5101
5N/04W-19R02M	110.0	3-24-70	13.4	96.6	5101
5N/04W-20R02M	50.0	3-24-70	0.9	49.1	5101
5N/04W-21B01M	75.0	3-25-70	14.6	60.4	5101
5N/04W-22M01M	12.0	3-25-70	-0.7	12.7	5101
5N/04W-28R01M	37.0	3-25-70	28.9	8.1	5101
5N/04W-29H01M	77.0	3-25-70	42.2	34.8	5101
6N/03W-31B01M	240.0	3-25-70	104.0	136.0	5101
6N/03W-31F01M	145.0	3-25-70	40.3	104.7	5101
6N/03W-31H01M	180.0	3-25-70	74.8	105.2	5101
6N/03W-31N01M	170.0	3-25-70	59.4	110.6	5101
6N/03W-31N02M	167.0	3-25-70	30.5	136.5	5101
6N/04W-05R01M	67.0	3-25-70	3.8	63.2	5101
6N/04W-06L02M	80.0	3-25-70	7.4	72.6	5101
6N/04W-06N01M	75.0	3-25-70	18.1	56.9	5101
6N/04W-06P01M	75.0	3-26-70	7.4	67.6	5101
6N/04W-07N01M	135.0	3-26-70	16.0	119.0	5101
6N/04W-08E01M	70.0	3-26-70	6.3	63.7	5101
6N/04W-15Q01M	67.0	3-26-70	51.9	15.1	5101
6N/04W-16P01M	62.0	3-26-70	14.0	48.0	5101
6N/04W-17A01M	67.0	10-07-69	13.1	53.9	5050
		3-27-70	3.3	63.7	5050
6N/04W-18A02M	85.0	3-26-70	20.1	64.9	5101
6N/04W-19B01M	125.0	3-26-70	16.2	108.8	5101
6N/04W-21G01M	61.0	3-26-70	0.9	60.1	5101
6N/04W-22P01M	53.0	3-26-70	21.3	31.7	5101
6N/04W-23J01M	87.0	3-26-70	37.9	49.1	5101
6N/04W-26N01M	32.0	3-26-70	10.7	21.3	5101
6N/04W-27L02M	50.0	10-07-69	52.0	-2.0	5050
		3-27-70	23.5	26.5	5050
6N/04W-27N01M	50.0	3-27-70	17.6	32.4	5101
6N/04W-28K01M	62.0	3-27-70	4.1	57.9	5101
6N/04W-29B01M	92.0	3-27-70	7.5	84.5	5101
6N/04W-30C01M	149.0	3-27-70	5.3	143.7	5101
6N/04W-32J06M	94.0	3-27-70	6.0	88.0	5101

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NAPA VALLEY 2-02.01 (Continued)					
6N/04W-32L02M	107.0	3-27-70	24.2	82.8	5101
6N/04W-35G03M	38.0	3-27-70	17.5	20.5	5101
6N/04W-36H01M	105.0	3-27-70	20.8	84.2	5101
6N/05W-12R01M	180.0	3-27-70	14.5	165.5	5101
7N/04W-30L01M	112.0	3-27-70	3.5	108.5	5101
7N/04W-30M01M	114.0	3-27-70	1.4	112.6	5101
7N/04W-32B02M	180.0	3-30-70	1.8	178.2	5101
7N/05W-03G01M	188.0	3-30-70	36.0	152.0	5101
7N/05W-03G02M	188.0	3-30-70	11.2	176.8	5101
7N/05W-04R02M	172.0	3-30-70	3.8	168.2	5101
7N/05W-05A01M	182.0	3-30-70	3.0	179.0	5101
7N/05W-06F01M	245.0	3-30-70	16.0	229.0	5101
7N/05W-06J01M	215.0	3-30-70	13.5	201.5	5101
7N/05W-08A01M	175.0	3-30-70	9.5	165.5	5101
7N/05W-08M01M	190.0	3-30-70	16.1	173.9	5101
7N/05W-09Q01M	155.0	3-30-70	(8)		5101
7N/05W-09Q02M	155.0	10-07-69	16.9	138.1	5050
		3-27-70	7.6	147.4	5050
7N/05W-09Q03M	155.0	3-31-70	3.9	151.1	5101
7N/05W-10C01M	162.2	3-31-70	11.9	150.3	5101
7N/05W-14B02M	139.0	3-31-70	5.6	133.4	5101
7N/05W-14J01M	140.0	3-30-70	3.5	136.5	5101
7N/05W-15A01M	143.0	3-31-70	9.4	133.6	5101
7N/05W-15F01M	141.0	3-31-70	0.5	140.5	5101
7N/05W-16L01M	171.0	3-31-70	9.6	161.4	5101
7N/05W-16N02M	193.0	3-31-70	9.7	183.3	5101
7N/05W-17B02M	161.0	3-31-70	9.4	151.6	5101
7N/05W-21G01M	152.0	3-31-70	-0.9	152.9	5101
7N/05W-22E03M	140.0	3-31-70	0.0	140.0	5101
7N/05W-22H01M	133.0	4-01-70	8.9	124.1	5101
7N/05W-23D02M	127.0	4-01-70	2.9	124.1	5101
7N/05W-23Q01M	115.0	4-01-70	3.4	111.6	5101
7N/05W-24P01M	127.0	4-01-70	0.7	126.3	5101
7N/05W-25A01M	163.0	4-01-70	8.1	154.9	5101
7N/05W-26D02M	127.0	4-01-70	1.8	125.2	5101
7N/05W-34C02M	190.0	4-01-70	7.8	182.2	5101
7N/05W-35F02M	175.0	4-01-70	3.6	171.4	5101
7N/05W-36N01M	141.0	4-01-70	3.5	137.5	5101
7N/06W-01A01M	264.0	4-02-70	10.3	253.7	5101
8N/05W-30P01M	220.0	4-02-70	1.0	219.0	5101
8N/05W-31H01M	212.0	4-02-70	10.2	201.8	5101
8N/05W-31P02M	237.0	4-02-70	17.1	219.9	5101
8N/05W-31R01M	210.0	4-02-70	6.1	203.9	5101
8N/05W-32K04M	192.0	4-02-70	6.7	185.3	5101
NAPA VALLEY 2-02.01 (Continued)					
8N/06W-03M01M	330.0	4-02-70	30.8	299.2	5101
8N/06W-04F01M	330.0	4-02-70	65.1	264.9	5101
8N/06W-06L04M	335.0	4-02-70	7.0	328.0	5101
8N/06W-09D02M	290.0	4-02-70	12.0	278.0	5101
8N/06W-09H01M	290.0	4-03-70	2.8	287.2	5101
8N/06W-09H02M	291.5	4-03-70	1.5	290.0	5101
8N/06W-10Q01M	290.0	10-07-69	6.8	283.2	5050
		3-27-70	2.1	287.9	5050
8N/06W-14N01M	285.0	4-03-70	11.2	273.8	5101
8N/06W-14Q01M	250.0	4-03-70	6.4	243.6	5101
8N/06W-23M01M	285.0	4-03-70	5.4	279.6	5101
8N/06W-24B01M	300.0	4-03-70	7.5	292.5	5101
8N/06W-25G02M	230.0	4-03-70	11.3	218.7	5101
9N/06W-31Q01M	340.0	4-03-70	1.7	338.3	5101
9N/06W-32M01M	360.0	4-02-70	11.0	349.0	5101
9N/07W-24L01M	460.0	4-01-70	8.9	451.1	5101
9N/07W-25N01M	380.0	4-01-70	3.9	376.1	5101
9N/07W-25N02M	380.0	4-01-70	4.5	375.5	5101
9N/07W-26P01M	400.0	4-01-70	0.8	399.2	5101
9N/07W-35K01M	399.0	4-02-70	1.1	397.9	5101
SONOMA VALLEY 2-02.02					
5N/05W-17C01M	85.0	3-25-70	14.8	70.2	5050
5N/05W-18R01M	43.0	3-25-70	2.8	40.2	5050
5N/05W-28N01M	11.0	3-25-70	6.3	4.7	5050
5N/05W-29N01M	16.0	3-25-70	5.9	10.1	5050
5N/05W-30J03M	16.0	3-25-70 (4)	9.7	6.3	5050
SUISUN-FAIRFIELD VALLEY 2-03.00					
4N/02W-04D02M	26.0	10-23-69	10.5	15.5	5109
		6-01-70	5.3	20.7	5109
4N/02W-06A01M	35.0	10-14-69	15.3	19.7	5050
		10-23-69	15.3	19.7	5109
		11-14-69	15.4	19.6	5050
		12-16-69	15.1	19.9	5050
		1-16-70	10.7	24.3	5050
		2-19-70	12.4	22.6	5050
		3-16-70	12.5	22.5	5050
		4-15-70	12.9	22.1	5050
		5-14-70	13.0	22.0	5050
		6-01-70	12.7	22.3	5109
		6-15-70	11.8	23.2	5050
		7-17-70	14.2	20.8	5050
		8-17-70	13.7	21.3	5050
		9-15-70	13.9	21.1	5050
4N/02W-07D01M	17.0	10-23-69	9.1	7.9	5109
		6-01-70	2.3	14.7	5109
4N/02W-09A01M	7.0	10-08-69	1.9	5.1	5109
		10-14-69	0.9	6.1	5050
		11-14-69	0.9	6.1	5050
		12-16-69	1.0	6.0	5050
		1-16-70	FLOW		5050
		2-19-70	FLOW		5050
		3-16-70	FLOW		5050
		4-15-70	FLOW		5050
		5-14-70	-0.3	7.3	5050
		6-01-70	-0.4	7.4	5109

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SUISUN-FAIRFIELD VALLEY 2-03.00 (Continued)					
4N/02W-09A01M (Continued)	7.0	6-15-70	0.1	6.9	5050
		7-17-70	0.3	6.7	5050
		8-17-70	0.6	6.4	5050
		9-15-70	0.7	6.3	5050
4N/02W-09H01M	4.0	10-14-69	1.2	2.8	5050
		11-14-69	1.3	2.7	5050
		12-16-69	FLOW		5050
		1-16-70	(9)		5050
		2-19-70	(1)		5050
		3-16-70	FLOW		5050
		4-15-70	-0.1	4.1	5050
		5-14-70	0.6	3.4	5050
		6-15-70	1.6	2.4	5050
		7-17-70	(8)		5050
		8-17-70	(1) 2.8	1.2	5050
		9-15-70	0.5	3.5	5050
4N/03W-01D01M	37.0	10-23-69	7.3	29.7	5109
		6-01-70	3.8	33.2	5109
4N/03W-13G01M	47.0	10-23-69	20.3	26.7	5109
		6-01-70	17.3	29.7	5109
5N/01E-19R01M	39.0	10-22-69	13.2	25.8	5109
		5-29-70	16.0	23.0	5109
5N/01W-02N01M	88.5	10-22-69	10.2	78.3	5109
		5-06-70	(1)		5109
5N/01W-07E01M	115.0	10-21-69	9.6	105.4	5109
		5-06-70	13.3	101.7	5109
5N/01W-25R01M	25.0	10-21-69	14.1	10.9	5109
		6-01-70	(1)		5109
5N/02W-08G03M	143.0	10-23-69	12.5	130.5	5109
		5-06-70	9.5	133.5	5109
5N/02W-14N03M	100.0	10-23-69	9.5	90.5	5109
		5-06-70	7.5	92.5	5109
5N/02W-21P03M	60.0	10-14-69	(4) 14.3	45.7	5050
		10-23-69	11.2	48.8	5109
		11-14-69	11.8	48.2	5050
		12-16-69	12.2	47.8	5050
		1-16-70	7.2	52.8	5050
		2-19-70	5.9	54.1	5050
		3-16-70	7.1	52.9	5050
		4-15-70	7.4	52.6	5050
		5-06-70	7.8	52.2	5109
		5-14-70	7.7	52.3	5050
		6-15-70	5.7	54.3	5050
		7-17-70	9.5	50.5	5050
		8-17-70	10.5	49.5	5050
		9-15-70	11.3	48.7	5050
5N/02W-24B04M	58.0	10-21-69	(6)		5109
5N/02W-25R01M	7.0	10-14-69	5.5	1.5	5050
		10-21-69	5.0	2.0	5109
		11-14-69	4.9	2.1	5050
		12-16-69	4.6	2.4	5050
		1-16-70	(9)		5050
		2-19-70	0.3	6.7	5050
		3-16-70	1.1	5.9	5050
		4-15-70	3.7	3.3	5050
		5-14-70	4.4	2.6	5050
		6-01-70	4.5	2.5	5109
		6-15-70	3.9	3.1	5050
		7-17-70	5.1	1.9	5050
		8-17-70	5.4	1.6	5050
		9-15-70	5.5	1.5	5050
5N/02W-27J02M	24.0	10-14-69	7.0	17.0	5050
		10-23-69	7.8	16.2	5109
		11-14-69	6.5	17.5	5050
		12-16-69	6.2	17.8	5050
		1-16-70	(2) 25.0	-1.0	5050
		2-19-70	(2) 29.0	-5.0	5050
		3-16-70	(2) 32.7	-8.7	5050
		4-15-70	(2) 34.0	-10.0	5050
		5-14-70	(2) 29.4	-5.4	5050
		6-01-70	10.0	14.0	5109
		6-15-70	5.9	18.1	5050
		7-17-70	16.1	7.9	5050
		8-17-70	6.7	17.3	5050
		9-15-70	6.0	18.0	5050
SUISUN-FAIRFIELD VALLEY 2-03.00 (Continued)					
5N/02W-29F01M	46.0	10-23-69	12.7	33.3	5109
		6-01-70	28.5	17.5	5109
5N/02W-30J01M	65.0	10-14-69	21.3	43.7	5050
		11-14-69	22.7	42.3	5050
		12-16-69	24.2	40.8	5050
		1-16-70	17.2	47.8	5050
		2-19-70	15.0	50.0	5050
		3-16-70	16.3	48.7	5050
		4-15-70	18.1	46.9	5050
		5-14-70	16.3	48.7	5050
		6-15-70	16.1	48.9	5050
		7-17-70	16.6	48.4	5050
		8-17-70	18.8	46.2	5050
		9-15-70	18.7	46.3	5050
PITTSBURG PLAIN 2-04.00					
2N/01E-15N01M	40.0	3-24-70	32.7	7.3	5050
2N/01E-15P01M	35.0	4-06-70	19.8	15.2	5050
2N/01E-18D01M	25.0	3-24-70	22.6	2.4	5050
2N/01W-04Q01M	5.0	3-24-70	4.0	1.0	5050
2N/01W-11L01M	30.0	3-24-70	28.8	1.2	5050
2N/01W-12P01M	30.0	3-24-70	27.0	3.0	5050
YGNACIO VALLEY 2-06.00					
1N/01W-07K01M	83.0	3-24-70	(4) 10.3	72.7	5050
1N/02W-11N01M	63.0	3-24-70	(1) 15.7	47.3	5050
1N/02W-13P01M	100.0	3-24-70	7.0	93.0	5050
2N/02W-27R01M	15.0	3-24-70	2.5	12.5	5050
2N/02W-36E01M	48.0	3-24-70	(4) 15.4	32.6	5050
SANTA CLARA VALLEY 2-09.00					
EAST BAY AREA ABOVE HAYWARD FAULT 2-09.01					
4S/01W-35P03M	115.3	11-05-69	119.9	-4.6	5401
		12-03-69	124.5	-9.2	5401
		1-06-70	112.2	3.1	5401
		2-10-70	106.0	9.3	5401
		3-04-70	103.3	12.0	5401
		5-06-70	118.4	-3.1	5401
		6-01-70	125.9	-10.6	5401
		6-30-70	130.4	-15.1	5401
		8-05-70	134.0	-18.7	5401
		9-01-70	133.8	-18.5	5401
		9-29-70	137.7	-22.4	5401
EAST BAY AREA UPPER AQUIFER 2-09.01					
3S/02W-08M03M	48.0	10-08-69	18.7	29.3	5100
		11-05-69	17.5	30.5	5100
		12-03-69	16.7	31.3	5100
		12-30-69	15.7	32.3	5100
		1-28-70	14.5	33.5	5100
		2-25-70	13.7	34.3	5100
		3-25-70	18.2	29.8	5100
		4-22-70	17.7	30.3	5100
		5-20-70	17.7	30.3	5100
		7-15-70	18.7	29.3	5100
		8-12-70	18.7	29.3	5100
		9-11-70	20.7	27.3	5100
3S/02W-08R05M	64.0	10-00-69	30.7	33.3	5100
		4-00-70	30.9	33.1	5100

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EAST BAY AREA UPPER AQUIFER 2-09.01 (Continued)					
3S/02W-19J01M	30.0	10-08-69	5.8	24.2	5100
		11-05-69	5.3	24.7	5100
		12-03-69	4.8	25.2	5100
		12-30-69	4.9	25.1	5100
		1-28-70	4.6	25.4	5100
		2-25-70	5.8	24.2	5100
		3-25-70	8.7	21.3	5100
		4-22-70	8.8	21.2	5100
		5-20-70	8.7	21.3	5100
		7-15-70	9.4	20.6	5100
		8-12-70	9.4	20.6	5100
		9-11-70	9.7	20.3	5100
3S/03W-24Q02M	7.0	10-00-69	9.0	-2.0	5100
		4-00-70	8.5	-1.5	5100
4S/01W-18H03M	47.0	10-01-69	58.6	-11.6	5401
		11-04-69	60.0	-13.0	5401
		12-02-69	60.3	-13.3	5401
		1-05-70	57.5	-10.5	5401
		2-09-70	55.1	-8.1	5401
		3-03-70	54.4	-7.4	5401
		3-31-70	54.3	-7.3	5401
		5-06-70	55.0	-8.0	5401
		6-01-70	56.8	-9.8	5401
		6-29-70	57.7	-10.7	5401
		8-06-70	71.2	-24.2	5401
		8-19-70	62.1	-15.1	5401
		9-01-70	62.6	-15.6	5401
		9-29-70	64.3	-17.3	5401
4S/01W-22P05M	80.0	10-00-69	39.6	40.4	5100
		4-00-70	(7)		5100
4S/02W-13C02M	36.4	9-29-70	46.7	-10.3	5401
4S/02W-24Q02M	33.4	10-00-69	39.4	-6.0	5100
		4-00-70	42.8	-9.4	5100
EAST BAY AREA LOWER AQUIFER 2-09.01					
2S/03W-36R01M	45.0	10-00-69	92.0	-47.0	5100
		4-00-70	(1) 177.0	-132.0	5100
3S/03W-24J01M	11.0	10-08-69	47.8	-36.8	5100
		11-05-69	48.8	-37.8	5100
		12-03-69	48.2	-37.2	5100
		12-30-69	39.5	-28.5	5100
		1-28-70	38.8	-27.8	5100
		2-25-70	38.8	-27.8	5100
		3-25-70	49.9	-38.9	5100
		4-22-70	53.7	-42.7	5100
		5-20-70	54.9	-43.9	5100
		7-15-70	56.3	-45.3	5100
		8-12-70	57.0	-46.0	5100
		9-11-70	68.2	-57.2	5100
3S/03W-36R03M	5.0	10-00-69	65.6	-60.6	5100
		4-00-70	54.0	-49.0	5100
4S/02W-02Q01M	26.0	3-25-70	55.5	-29.5	5401
		9-21-70	79.8	-53.8	5401
4S/02W-35R02M	15.0	11-05-69	41.9	-26.9	5401
		12-03-69	40.6	-25.6	5401
		1-06-70	27.2	-12.2	5401
		2-10-70	28.1	-13.1	5401
		3-03-70	28.9	-13.9	5401
		3-24-70	27.5	-12.5	5401
		5-04-70	(0)		5401
4S/02W-36K01M	24.0	11-06-69	53.5	-29.5	5401
		12-03-69	50.4	-26.4	5401
		1-01-70	(0)		5401
5S/01W-09M01M	15.0	10-07-69	61.0	-46.0	5401
		4-01-70	34.1	-19.1	5401
		9-24-70	55.6	-40.6	5401

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					
6S/01E-21R01M	138.0	10-30-69	174.6	-36.6	2400
		12-01-69	161.7	-23.7	2400
		12-31-69	154.8	-16.8	2400
		1-29-70	149.7	-11.7	2400
		3-02-70	146.6	-8.6	2400
		4-01-70	145.8	-7.8	2400
		4-30-70	147.3	-9.3	2400
		5-26-70	151.6	-13.6	2400
		6-24-70	159.4	-21.4	2400
		7-30-70	161.7	-23.7	2400
		9-01-70	163.2	-25.2	2400
6S/01E-23P02M	240.5	10-30-69	122.6	117.9	2400
		12-01-69	124.8	115.7	2400
		12-31-69	124.4	116.1	2400
		1-29-70	123.3	117.2	2400
		3-02-70	122.4	118.1	2400
		4-01-70	124.4	116.1	2400
		4-30-70	126.6	113.9	2400
		6-01-70	120.3	120.2	2400
		7-01-70	119.4	121.1	2400
		7-29-70	124.5	116.0	2400
		9-01-70	122.6	117.9	2400
6S/01E-30M01M	43.0	10-01-69	106.7	-63.7	2400
		10-31-69	86.8	-43.8	2400
		12-02-69	73.4	-30.4	2400
		1-02-70	60.2	-17.2	2400
		1-30-70	53.8	-10.8	2400
		2-26-70	48.6	-5.6	2400
		4-01-70	(6) 50.0	-7.0	2400
		4-30-70	69.6	-26.6	2400
		8-05-70	98.2	-55.2	2400
6S/01W-23E01M	21.0	10-23-69	80.7	-59.7	5000
		11-21-69	66.2	-45.2	5000
		12-19-69	55.1	-34.1	5000
		1-16-70	46.9	-25.9	5000
		2-12-70	41.9	-20.9	5000
		3-12-70	37.2	-16.2	5000
		4-09-70	52.9	-31.9	5000
		5-09-70	61.0	-40.0	5000
		6-05-70	73.5	-52.5	5000
6S/02W-16R01M	48.0	11-26-69	84.4	-36.4	2400
		5-04-70	79.0	-31.0	2400
		6-15-70	82.0	-34.0	2400
		7-16-70	84.0	-36.0	2400
		8-25-70	84.1	-36.1	2400
6S/02W-25C01M	73.0	10-24-69	112.8	-39.8	2400
		11-26-69	105.0	-32.0	2400
		1-22-70	97.6	-24.6	2400
		2-27-70	100.2	-27.2	2400
		3-27-70	100.7	-27.7	2400
		5-04-70	102.4	-29.4	2400
		6-05-70	104.3	-31.3	2400
		7-13-70	106.2	-33.2	2400
		8-25-70	105.7	-32.7	2400
6S/02W-35C01M	140.1	10-24-69	224.8	-84.7	2400
		1-26-70	(6) 195.0	-54.9	2400
		3-30-70	182.7	-42.6	2400
		5-04-70	(6) 184.0	-43.9	2400
7S/01E-01K01M	179.0	10-06-69	142.8	36.2	2400
		12-10-69	144.2	34.8	2400
		1-15-70	141.6	37.4	2400
		2-19-70	139.8	39.2	2400
		3-23-70	137.7	41.3	2400
		4-20-70	139.0	40.0	2400
		5-22-70	144.4	34.6	2400
		6-22-70	135.6	43.4	2400
		7-29-70	134.4	44.6	2400
		9-11-70	132.7	46.3	2400
7S/01E-09D02M	95.9	10-23-69	141.5	-45.6	5000
		11-21-69	130.5	-34.6	5000
		12-19-69	121.1	-25.2	5000
		1-16-70	115.2	-19.3	5000
		1-28-70	112.5	-16.6	5000
		2-12-70	110.6	-14.7	5000
		3-12-70	106.0	-10.1	5000
		4-09-70	114.5	-18.6	5000
		5-09-70	117.0	-21.1	5000
		6-05-70	125.9	-30.0	5000

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH BAY AREA 2-09.02 (Continued)					
7S/01E-16C05M	105.0	10-23-69	183.4	-78.4	5000
		11-21-69	169.6	-64.6	5000
		12-19-69	158.9	-53.9	5000
		1-16-70	149.1	-44.1	5000
		1-28-70	145.0	-40.0	5000
		2-12-70	147.3	-42.3	5000
		3-12-70	138.6	-33.6	5000
		4-09-70	161.6	-56.6	5000
		5-09-70	158.4	-53.4	5000
		6-05-70	174.7	-69.7	5000
7S/01E-31A02M	151.6	10-08-69	154.8	-3.2	2400
		11-05-69	146.3	5.3	2400
		12-31-69	127.6	24.0	2400
		2-04-70	120.6	31.0	2400
		3-11-70	117.8	33.8	2400
		4-13-70 (2)	126.6	25.0	2400
		5-07-70	119.4	32.2	2400
		6-03-70 (2)	131.8	19.8	2400
		6-30-70	129.0	22.6	2400
		7-31-70	136.5	15.1	2400
		9-01-70	145.2	6.4	2400
7S/02E-07P01M	130.0	10-06-69	140.2	-10.2	2400
		12-10-69	137.3	-7.3	2400
		1-15-70	133.3	-3.3	2400
		2-19-70	127.7	2.3	2400
		3-23-70	121.6	8.4	2400
		4-16-70	122.4	7.6	2400
		5-21-70	124.4	5.6	2400
		6-19-70	125.5	4.5	2400
		7-28-70	120.7	9.3	2400
		9-11-70	121.6	8.4	2400
7S/02E-17H01M	349.0	10-17-69	89.8	259.2	2400
		11-26-69	87.7	261.3	2400
		1-13-70	84.8	264.2	2400
		2-17-70	86.7	262.3	2400
		3-19-70	85.6	263.4	2400
		4-20-70	88.4	260.6	2400
		5-22-70	90.3	258.7	2400
		6-22-70	87.4	261.6	2400
		7-28-70	89.2	259.8	2400
7S/02E-33C01M	462.0	10-17-69	20.8	441.2	2400
		11-26-69 (1)	21.7	440.3	2400
		1-13-70	20.8	441.2	2400
		2-17-70	20.6	441.4	2400
		3-19-70	19.8	442.2	2400
		4-16-70	21.4	440.6	2400
		5-21-70	20.3	441.7	2400
		6-19-70	20.6	441.4	2400
		7-28-70	20.8	441.2	2400
		9-11-70	21.6	440.4	2400
7S/02W-03P01M	216.7	10-01-69	316.0	-99.3	2400
		11-01-69	310.0	-93.3	2400
		12-01-69	302.0	-85.3	2400
		1-01-70	297.0	-80.3	2400
		2-01-70	292.0	-75.3	2400
		3-01-70	288.0	-71.3	2400
		4-01-70	289.0	-72.3	2400
		5-01-70	294.0	-77.3	2400
7S/02W-04B01M	218.0	10-27-69 (6)	203.8	14.2	2400
		12-23-69 (6)	199.3	18.7	2400
		1-28-70 (6)	194.4	23.6	2400
		3-31-70 (6)	191.8	26.2	2400
		4-29-70 (6)	197.3	20.7	2400
		6-05-70 (6)	208.6	9.4	2400
		7-09-70 (6)	209.8	8.2	2400
		8-12-70	225.0	-7.0	2400
7S/02W-22A01M	340.0	10-28-69	23.3	316.7	2400
		12-23-69	24.7	315.3	2400
		1-28-70	22.4	317.6	2400
		3-31-70	20.8	319.2	2400
		5-05-70	25.6	314.4	2400
		6-08-70	24.2	315.8	2400
		7-14-70	24.5	315.5	2400
		8-25-70	25.7	314.3	2400
8S/01E-07H02M	207.0	10-03-69	(6)		2400
SOUTH BAY AREA 2-09.02 (Continued)					
8S/01E-13H01M	184.6	10-02-69	22.3	162.3	2400
		11-06-69	19.5	165.1	2400
		12-29-69	19.3	165.3	2400
		2-05-70	17.7	166.9	2400
		3-09-70	18.4	166.2	2400
8S/02E-20F03M	209.0	10-09-69	29.5	179.5	2400
		2-09-70	24.6	184.4	2400
		3-13-70	26.5	182.5	2400
		4-06-70 (2)	29.7	179.3	2400
		5-13-70 (2)	32.6	176.4	2400
		6-16-70	28.7	180.3	2400
		7-20-70	27.4	181.6	2400
		8-19-70	28.7	180.3	2400
8S/02E-22D01M	239.7	10-15-69	13.6	226.1	2400
		12-08-69	11.2	228.5	2400
		1-09-70	11.5	228.2	2400
		2-13-70	11.5	228.2	2400
		3-18-70	11.4	228.3	2400
		4-07-70	17.8	221.9	2400
		5-14-70	14.4	225.3	2400
		6-16-70	12.3	227.4	2400
		7-20-70	12.5	227.2	2400
		8-21-70	12.8	226.9	2400
8S/01W-15B01M	331.2	2-03-70	34.4	296.8	2400
		4-13-70	(2)		2400
		5-05-70	(0)		2400
9S/02E-01J01M	314.6	10-15-69 (2)	32.3	282.3	2400
		11-01-69 (6)	28.0	286.6	2400
		12-08-69	27.7	286.9	2400
		1-09-70	25.8	288.8	2400
		2-13-70	24.6	290.0	2400
		3-18-70	22.3	292.3	2400
		4-09-70	25.0	289.6	2400
		5-15-70	28.6	286.0	2400
		6-04-70 (2)	31.5	283.1	2400
		7-31-70	29.3	285.3	2400
		9-01-70	30.5	284.1	2400
		9-30-70	34.8	279.8	2400
9S/02E-02J02M	287.6	10-30-69	21.0	266.6	2400
		12-01-69	18.5	269.1	2400
		12-31-69	16.6	271.0	2400
		1-29-70	13.5	274.1	2400
		3-02-70	10.6	277.0	2400
		3-31-70	10.8	276.8	2400
		4-30-70	12.3	275.3	2400
		6-04-70 (2)	17.8	269.8	2400
		9-03-70	19.8	267.8	2400
LIVERMORE VALLEY 2-10.00					
2S/01E-31E01M	340.0	10-00-69	33.2	306.8	5100
		4-00-70	14.2	325.8	5100
2S/02E-21F01M	580.0	10-00-69	48.0	532.0	5100
		4-00-70	47.5	532.5	5110
2S/02E-22N02M	545.0	10-00-69	22.0	523.0	5100
		4-00-70	24.0	521.0	5100
2S/02E-27K01M	520.0	10-00-69	12.0	508.0	5100
		4-00-70 (1)	32.7	487.3	5100
2S/02E-28J01M	520.0	10-00-69	13.8	506.2	5100
		4-00-70	7.0	513.0	5100
2S/02E-29A02M	552.0	10-00-69	30.9	521.1	5100
		4-00-70	31.5	520.5	5100
2S/02E-32C01M	520.0	10-00-69	23.7	496.3	5100
		4-00-70 (1)	22.7	497.3	5100
2S/02E-35F01M	522.0	10-00-69	15.0	507.0	5100
		4-00-70	13.2	508.8	5100
2S/02E-36F01M	533.0	10-00-69	28.9	504.1	5100
		4-00-70	28.5	504.5	5100
2S/01W-22K01M	440.0	10-00-69	19.2	420.8	5100
		4-00-70	14.5	425.5	5100

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LIVERMORE VALLEY 2-10.00 (Continued)					
2S/01W-26C01M	416.9	10-00-69	37.4	379.5	5100
		4-00-70	31.6	385.3	5100
3S/01E-01G02M	417.0	10-00-69	50.1	366.9	5100
		4-00-70	36.0	381.0	5100
3S/01E-02J01M	408.0	10-00-69	52.1	355.9	5100
		4-00-70	50.1	357.9	5100
3S/01E-03J01M	361.0	10-00-69	23.3	337.7	5100
		4-00-70 (1)	27.9	333.1	5100
3S/01E-05M01M	333.7	10-00-69	11.3	322.4	5100
		4-00-70	7.2	326.5	5100
3S/01E-05R02M	340.0	10-00-69	91.3	248.7	5100
		4-00-70	76.7	263.3	5100
3S/01E-06C01M	334.7	10-00-69	25.9	308.8	5100
		4-00-70	22.8	311.9	5100
3S/01E-08J02M	339.6	10-01-69	82.4	257.2	5100
		10-29-69	91.8	247.8	5100
		12-11-69	87.8	251.8	5100
		1-08-70	85.3	254.3	5100
		2-04-70	81.6	258.0	5100
		3-04-70	76.3	263.3	5100
		4-01-70	74.8	264.8	5100
		5-12-70	77.5	262.1	5100
		6-10-70	83.5	256.1	5100
		6-24-70	82.0	257.6	5100
		8-05-70	91.6	248.0	5100
		9-02-70	106.8	232.8	5100
3S/01E-09R02M	353.2	10-01-69	113.2	240.0	5100
		4-01-70	89.5	263.7	5100
3S/01E-10Q02M	368.7	10-01-69	135.5	233.2	5100
		4-01-70	104.5	264.2	5100
3S/01E-11H01M	372.9	10-00-69	141.9	231.0	5100
		4-00-70	123.0	249.9	5100
3S/01E-12P01M	404.0	10-00-69	(8)		5100
		4-00-70	156.3	247.7	5100
3S/01E-13P01M	396.5	10-00-69	(1)		5100
		4-00-70	147.9	248.6	5100
3S/01E-14F01M	379.1	10-00-69	76.1	303.0	5100
		4-00-70	73.1	306.0	5100
3S/01E-15L01M	363.0	10-00-69 (1)	139.5	223.5	5100
		4-00-70 (1)	80.5	282.5	5100
3S/01E-16D02M	339.4	10-01-69	95.2	244.2	5100
		10-29-69	98.2	241.2	5100
		12-11-69	96.7	242.7	5100
		1-08-70	91.2	248.2	5100
		2-04-70	89.2	250.2	5100
		3-04-70	84.2	255.2	5100
		4-01-70	81.2	258.2	5100
		5-12-70	81.2	258.2	5100
		6-10-70	96.2	243.2	5100
		6-24-70	94.2	245.2	5100
		8-05-70	100.2	239.2	5100
		9-02-70	101.2	238.2	5100
3S/01E-16D06M	339.4	10-01-69	109.2	230.2	5100
		10-29-69	103.7	235.7	5100
		12-11-69	96.2	243.2	5100
		1-08-70	93.2	246.2	5100
		2-04-70	88.2	251.2	5100
		3-04-70	85.2	254.2	5100
		4-01-70	80.2	259.2	5100
		5-12-70	80.2	259.2	5100
		6-10-70	102.7	236.7	5100
		6-24-70	102.5	236.9	5100
		8-05-70	112.2	227.2	5100
		9-02-70	113.5	225.9	5100
3S/01E-16D07M	339.4	10-01-69	111.3	228.1	5100
		10-29-69	109.8	229.6	5100
		12-11-69	94.3	245.1	5100
		1-08-70	101.3	238.1	5100
		2-04-70	92.3	247.1	5100
LIVERMORE VALLEY 2-10.00 (Continued)					
3S/01E-16D07M (Continued)	339.4	3-04-70	89.3	250.1	5100
		4-01-70	86.3	253.1	5100
		5-12-70	87.3	252.1	5100
		6-10-70	107.3	232.1	5100
		6-24-70	111.3	228.1	5100
		8-05-70	123.5	215.9	5100
		9-02-70	122.8	216.6	5100
3S/01E-16R01M	358.0	10-03-69	71.2	286.8	5100
		4-00-70	70.4	287.6	5100
3S/01E-18A01M	320.0	10-01-69	92.0	228.0	5100
		10-29-69	84.0	236.0	5100
		12-11-69	80.0	240.0	5100
		1-08-70	78.0	242.0	5100
		2-04-70	75.0	245.0	5100
		3-04-70	70.0	250.0	5100
		4-01-70	71.0	249.0	5100
		5-12-70	77.0	243.0	5100
		6-10-70	76.0	244.0	5100
		6-24-70	69.0	251.0	5100
		8-05-70	72.0	248.0	5100
		9-02-70	73.0	247.0	5100
3S/01E-18M05M	320.0	10-00-69	85.8	234.2	5100
		4-00-70	76.0	244.0	5100
3S/01E-19A03M	328.0	10-01-69	93.7	234.3	5100
		10-29-69	87.9	240.1	5100
		12-11-69	83.7	244.3	5100
		1-08-70	(9)		5100
		2-04-70	74.7	253.3	5100
		3-04-70	73.2	254.8	5100
		4-01-70	78.7	249.3	5100
		5-12-70	77.7	250.3	5100
		6-10-70	73.4	254.6	5100
		6-24-70	73.7	254.3	5100
		8-05-70	74.7	253.3	5100
		9-02-70	76.7	251.3	5100
3S/01E-20B02M	340.0	10-01-69	106.5	233.5	5100
		4-01-70	80.8	259.2	5100
3S/01E-23J01M	435.0	10-03-69	85.9	349.1	5100
		4-00-70 (1)	79.5	355.5	5100
3S/01E-24R01M	421.9	10-08-69	18.0	403.9	5100
		4-00-70	17.2	404.7	5100
3S/01E-29E03M	311.0	10-08-69	45.5	265.5	5100
		4-00-70 (1)	51.0	260.0	5100
3S/02E-01G01M	580.0	10-00-69	87.9	492.1	5100
		4-00-70	82.5	497.5	5100
3S/02E-03K01M	520.2	10-00-69 (1)	141.2	379.0	5100
		4-00-70	48.5	471.7	5100
3S/02E-03P01M	545.0	10-00-69	58.6	486.4	5100
		4-00-70	58.6	486.4	5100
3S/02E-06P01M	414.0	10-00-69	79.2	334.8	5100
		4-00-70	42.9	371.1	5100
3S/02E-07P02M	440.0	10-00-69	123.1	316.9	5100
		4-00-70	96.6	343.4	5100
3S/02E-08H01M	472.5	10-08-69	158.0	314.5	5100
		4-00-70	134.0	338.5	5100
3S/02E-08P02M	465.0	10-01-69 (4)	111.0	354.0	5100
		4-01-70	78.0	387.0	5100
3S/02E-09Q01M	518.0	10-00-69	130.0	388.0	5100
		4-00-70	108.0	410.0	5100
3S/02E-11R03M	600.0	10-00-69	130.0	470.0	5100
		4-00-70	122.5	477.5	5100
3S/02E-11R04M	600.0	10-00-69	87.4	512.6	5100
		4-00-70	86.9	513.1	5100
3S/02E-14Q01M	649.0	10-00-69	9.5	639.5	5100
		4-00-70	7.5	641.5	5100

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LIVERMORE VALLEY 2-10.00 (Continued)					
3S/02E-15B04M	549.0	10-24-69	46.4	502.6	5100
		4-00-70	21.6	527.4	5100
3S/02E-15R01M	599.0	10-08-69	14.0	585.0	5100
		4-00-70	13.3	585.7	5100
3S/02E-16E02M	508.0	10-01-69	(4) 100.9	407.1	5100
		10-29-69	97.1	410.9	5100
		12-11-69	94.4	413.6	5100
		1-08-70	103.9	404.1	5100
		2-04-70	92.9	415.1	5100
		3-04-70	93.9	414.1	5100
		4-01-70	92.9	415.1	5100
		5-12-70	96.9	411.1	5100
		6-10-70	99.9	408.1	5100
		6-24-70	95.5	412.5	5100
		8-05-70	97.9	410.1	5100
		9-02-70	100.9	407.1	5100
3S/02E-16N01M	530.0	10-00-69	157.4	372.6	5100
		4-00-70	129.6	400.4	5100
3S/02E-19D01M	411.6	10-01-69	183.6	228.0	5100
		10-29-69	178.9	232.7	5100
		12-11-69	174.6	237.0	5100
		1-08-70	170.0	241.6	5100
		2-04-70	164.2	247.4	5100
		3-04-70	163.9	247.7	5100
		4-01-70	158.8	252.8	5100
		5-12-70	164.4	247.2	5100
		6-10-70	172.0	239.6	5100
		6-24-70	171.3	240.3	5100
		8-05-70	181.5	230.1	5100
		9-02-70	184.2	227.4	5100
3S/02E-19H03M	460.0	10-00-69	96.8	363.2	5100
		4-00-70	98.0	362.0	5100
3S/02E-22H02M	620.0	10-00-69	36.4	583.6	5100
		4-00-70	23.2	596.8	5100
3S/02E-22M01M	605.0	10-23-69	154.5	450.5	5100
		4-00-70	147.1	457.9	5100
3S/02E-26J01M	720.0	10-08-69	(1) 25.9	694.1	5100
		4-00-70	(1) 24.1	695.9	5100
3S/02E-28P01M	505.0	10-08-69	18.0	487.0	5100
		4-00-70	18.0	487.0	5100
3S/02E-29D01M	466.4	10-08-69	56.2	410.2	5100
		4-00-70	56.1	410.3	5100
3S/02E-29P01M	476.6	10-08-69	8.4	468.2	5100
		4-00-70	8.4	468.2	5100
3S/03E-07M02M	625.0	10-00-69	55.2	569.8	5100
		4-00-70	53.5	571.5	5100
3S/03E-17N01M	860.0	10-29-69	40.0	820.0	5100
		4-00-70	45.5	814.5	5100
3S/03E-19D01M	712.0	10-00-69	32.9	679.1	5100
		4-00-70	33.5	678.5	5100
3S/01W-01B01M	332.0	10-00-69	54.4	277.6	5100
		4-00-70	38.5	293.5	5100
3S/01W-02A01M	370.0	10-00-69	30.7	339.3	5100
		4-00-70	26.9	343.1	5100
3S/01W-02R01M	380.0	10-06-69	14.8	365.2	5100
		4-00-70	13.7	366.3	5100
3S/01W-12G03M	320.0	10-00-69	15.9	304.1	5100
		4-00-70	8.9	311.1	5100

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL COASTAL REGION 3-00.00					
PAJARO VALLEY 3-02.00					
11S/02E-27A01M	141.0	10-03-69	127.5	13.5	5050
		11-13-69	124.5	16.5	5050
		12-05-69	105.2	35.8	5050
		1-13-70	109.0	32.0	5050
		2-10-70	105.5	35.5	5050
		3-06-70	103.2	37.8	5050
		4-02-70	103.5	37.5	5050
		5-06-70	105.2	35.8	5050
		6-08-70	116.0	25.0	5050
12S/01E-24G01M	9.4	10-03-69	17.4	-8.0	5050
		11-13-69	7.6	1.8	5050
		12-05-69	14.5	-5.1	5050
		1-13-70	5.6	3.8	5050
		2-10-70	6.5	2.9	5050
		3-06-70	5.7	3.7	5050
		4-02-70	6.8	2.6	5050
		5-06-70	10.3	-0.9	5050
		6-08-70	11.8	-2.4	5050
12S/02E-11E04M	36.0	10-03-69	31.7	4.3	5050
		11-13-69	26.7	9.3	5050
		12-05-69	25.9	10.1	5050
		1-13-70	22.2	13.8	5050
		2-10-70	20.5	15.5	5050
		3-06-70	19.0	17.0	5050
		4-02-70	19.2	16.8	5050
		5-06-70	24.2	11.8	5050
		6-08-70	26.2	9.8	5050
12S/02E-16J01M	20.5	10-03-69	23.1	-2.6	5050
		11-13-69	16.6	3.9	5050
		12-05-69	16.6	3.9	5050
		1-13-70	13.1	7.4	5050
		2-10-70	10.6	9.9	5050
		3-06-70	10.3	10.2	5050
		4-02-70	10.7	9.8	5050
		5-06-70	13.0	7.5	5050
		6-08-70	23.5	-3.0	5050
12S/02E-31K01M	30.0	12-31-69	29.8	0.2	2100
13S/01E-01A01M	5.0	12-31-69	2.6	2.4	2100
13S/02E-05B01M	136.0	10-03-69	144.3	-8.3	5050
		11-13-69	142.2	-6.2	5050
		12-05-69	139.3	-3.3	5050
		1-13-70	136.9	-0.9	5050
		2-10-70	135.2	0.8	5050
		3-06-70	135.1	0.9	5050
		4-02-70	134.7	1.3	5050
		5-06-70	142.6	-6.6	5050
		6-08-70	145.1	-9.1	5050
13S/02E-06B01M	15.0	10-03-69	18.2	-3.2	5050
		11-13-69	15.4	-0.4	5050
		12-05-69	16.8	-1.8	5050
		1-13-70	13.5	1.5	5050
		2-10-70	11.9	3.1	5050
		3-06-70	11.2	3.8	5050
		4-02-70	13.9	1.1	5050
		5-06-70	15.0	0.0	5050
		6-08-70	16.5	-1.5	5050
13S/02E-06C01M	26.0	12-31-69	22.5	3.5	2100
13S/02E-06E02M	27.8	12-31-69	24.3	3.5	2100
13S/02E-06E03M	30.0	12-31-69	28.0	2.0	2100
GILROY-HOLLISTER VALLEY 3-03.00					
SOUTH SANTA CLARA COUNTY 3-03.01					
9S/03E-16J01M	385.7	10-15-69	(7)		2400
		11-01-69	(7)		2400
		12-08-69	78.8	306.9	2400
		1-08-70	79.4	306.3	2400
		2-11-70	73.8	311.9	2400
		3-17-70	70.3	315.4	2400
		4-10-70	73.4	312.3	2400
		5-19-70	76.5	309.2	2400

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH SANTA CLARA COUNTY 3-03.01 (Continued)					
9S/03E-21K02M	361.6	10-15-69	57.0	304.6	2400
		11-01-69	(7)		2400
		12-08-69	49.7	311.9	2400
		1-08-70	54.4	307.2	2400
		2-11-70	48.6	313.0	2400
		3-17-70	44.3	317.3	2400
		4-10-70	(1)		2400
		5-19-70	49.7	311.9	2400
		6-17-70	(7)		2400
9S/03E-22B03M	379.1	10-01-69	71.1	308.0	2400
		10-31-69	71.9	307.2	2400
		12-03-69	72.2	306.9	2400
		1-02-70	71.1	308.0	2400
		1-30-70	69.1	310.0	2400
		3-17-70	66.2	312.9	2400
		4-01-70	65.0	314.1	2400
		5-01-70	63.2	315.9	2400
		6-03-70	68.6	310.5	2400
9S/03E-23E01M	362.5	10-14-69	98.7	263.8	2400
		11-01-69	(7)		2400
		12-08-69	94.8	267.7	2400
		1-08-70	78.6	283.9	2400
		2-11-70	72.4	290.1	2400
		3-17-70	69.6	292.9	2400
		4-10-70	(1)		2400
		5-19-70	88.8	273.7	2400
		6-03-70	(7)		2400
9S/03E-26P01M	329.1	10-14-69	53.5	275.6	2400
		11-01-69	(7)		2400
		12-08-69	50.6	278.5	2400
		1-07-70	48.8	280.3	2400
		2-11-70	39.3	289.8	2400
		3-17-70	35.7	293.4	2400
		4-10-70	37.3	291.8	2400
		5-18-70	45.8	283.3	2400
		6-11-70	54.8	274.3	2400
9S/03E-27C02M	347.0	10-14-69	53.7	293.3	2400
		11-01-69	(7)		2400
		12-08-69	46.6	300.4	2400
		1-07-70	51.1	295.9	2400
		2-11-70	44.2	302.8	2400
		3-17-70	41.6	305.4	2400
		4-10-70	41.6	305.4	2400
		5-18-70	47.7	299.3	2400
		6-17-70	53.0	294.0	2400
9S/03E-29B01M	397.6	11-13-69	10.9	386.7	5050
		4-02-70	3.2	394.4	5050
9S/03E-34D02M	327.0	10-14-69	42.4	284.6	2400
		11-01-69	(7)		2400
		12-08-69	39.5	287.5	2400
		1-07-70	38.2	288.8	2400
		2-11-70	32.2	294.8	2400
		3-17-70	29.8	297.2	2400
		4-10-70	30.4	296.6	2400
		5-18-70	(1)		2400
		6-16-70	(7)		2400
9S/03E-34Q01M	314.2	10-14-69	36.4	277.8	2400
		11-01-69	(7)		2400
		12-05-69	32.6	281.6	2400
		1-07-70	31.4	282.8	2400
		2-11-70	20.9	293.3	2400
		3-17-70	19.4	294.8	2400
		4-10-70	20.6	293.6	2400
		5-18-70	26.8	287.4	2400
		6-17-70	29.3	284.9	2400
9S/03E-36E02M	309.3	10-14-69	54.3	255.0	2400
		11-01-69	(7)		2400
		12-05-69	(1)		2400
		1-07-70	49.4	259.9	2400
		2-11-70	40.8	268.5	2400
		3-16-70	38.6	270.7	2400
		4-09-70	(1)		2400
		5-18-70	53.5	255.8	2400
		6-03-70	(7)		2400
SOUTH SANTA CLARA COUNTY 3-03.01 (Continued)					
9S/03E-36F03M	322.0	10-14-69	78.4	243.6	2400
		11-01-69	76.0	246.0	2400
		12-05-69	71.0	251.0	2400
		1-07-70	70.6	251.4	2400
		2-11-70	64.7	257.3	2400
		3-16-70	61.7	260.3	2400
		4-09-70	62.8	259.2	2400
		5-18-70	68.3	253.7	2400
		6-03-70	(7)		2400
10S/03E-02K03M	290.0	10-03-69	39.4	250.6	5050
		11-13-69	36.8	253.2	5050
		12-05-69	36.5	253.5	5050
		1-13-70	35.2	254.8	5050
		2-10-70	27.5	262.5	5050
		3-06-70	23.7	266.3	5050
		4-02-70	24.0	266.0	5050
		5-06-70	31.4	258.6	5050
		6-08-70	37.6	252.4	5050
10S/03E-13J03M	251.0	10-03-69	38.0	213.0	5050
		11-12-69	36.0	215.0	5050
		12-05-69	35.6	215.4	5050
		1-13-70	33.4	217.6	5050
		2-10-70	23.7	227.3	5050
		3-06-70	21.0	230.0	5050
		4-01-70	21.4	229.6	5050
		5-06-70	22.5	228.5	5050
		6-08-70	(1)		5050
10S/03E-36E03M	220.0	10-03-69	36.0	184.0	5050
		11-13-69	35.0	185.0	5050
		12-05-69	33.6	186.4	5050
		1-13-70	32.8	187.2	5050
		2-10-70	20.9	199.1	5050
		3-06-70	20.4	199.6	5050
		4-02-70	20.6	199.4	5050
		5-06-70	23.7	196.3	5050
		6-08-70	33.1	186.9	5050
10S/04E-18G02M	259.5	10-03-69	52.1	207.4	5050
		11-12-69	52.4	207.1	5050
		12-05-69	48.3	211.2	5050
		1-13-70	45.7	213.8	5050
		2-10-70	38.9	220.6	5050
		3-06-70	38.1	221.4	5050
		4-01-70	38.5	221.0	5050
		5-06-70	43.9	215.6	5050
		6-08-70	50.1	209.4	5050
10S/04E-31G04M	197.5	10-20-69	38.5	159.0	5200
		12-08-69	33.5	164.0	5200
		12-15-69	33.5	164.0	5200
		1-19-70	31.5	166.0	5200
		2-16-70	25.5	172.0	5200
		3-16-70	21.5	176.0	5200
		4-20-70	25.5	172.0	5200
		5-18-70	32.5	165.0	5200
10S/04E-35E01M	248.0	11-12-69	81.7	166.3	5050
		4-01-70	72.0	176.0	5050
11S/04E-06B01M	197.2	10-20-69	44.0	153.2	5200
		12-08-69	39.0	158.2	5200
		12-15-69	39.0	158.2	5200
		1-19-70	35.0	162.2	5200
		2-16-70	29.0	168.2	5200
		3-16-70	26.0	171.2	5200
		4-20-70	30.0	167.2	5200
		5-18-70	38.0	159.2	5200
11S/04E-06D01M	211.0	10-20-69	52.0	159.0	5200
		12-08-69	48.0	163.0	5200
		12-15-69	48.0	163.0	5200
		1-19-70	39.0	172.0	5200
		2-16-70	31.0	180.0	5200
		3-16-70	35.0	176.0	5200
		4-20-70	38.0	173.0	5200
		5-18-70	47.0	164.0	5200

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH SANTA CLARA COUNTY 3-03.01 (Continued)					
11S/04E-06H01M	191.5	10-20-69	38.0	153.5	5200
		12-08-69	33.0	158.5	5200
		12-15-69	32.0	159.5	5200
		1-19-70	30.0	161.5	5200
		2-16-70	23.0	168.5	5200
		3-16-70	21.0	170.5	5200
		4-20-70	24.0	167.5	5200
		5-18-70	31.0	160.5	5200
11S/04E-06P02M	201.7	10-20-69	48.0	153.7	5200
		12-08-69	43.0	158.7	5200
		12-15-69	45.0	156.7	5200
		1-19-70	40.0	161.7	5200
		2-16-70	32.0	169.7	5200
		3-16-70	31.0	170.7	5200
		4-20-70	35.0	166.7	5200
		5-18-70	42.0	159.7	5200
11S/04E-08K02M	179.0	10-03-69	28.8	150.2	5050
		11-12-69	24.0	155.0	5050
		12-05-69	23.7	155.3	5050
		1-13-70	18.7	160.3	5050
		2-10-70	12.2	166.8	5050
		3-06-70	11.3	167.7	5050
		4-01-70	11.7	167.3	5050
		5-06-70	16.3	162.7	5050
		6-08-70	25.7	153.3	5050
SAN BENITO COUNTY 3-03.02					
11S/05E-13D01M	255.7	10-03-69	20.8	234.9	5050
		11-12-69	21.7	234.0	5050
		12-05-69	21.9	233.8	5050
		1-13-70	23.3	232.4	5050
		2-10-70	20.1	235.6	5050
		3-06-70	19.3	236.4	5050
		4-01-70	20.7	235.0	5050
		5-06-70	23.1	232.6	5050
		6-08-70	(1)		5050
12S/04E-20C01M	152.9	3-00-70	26.5	126.4	5151
12S/05E-10R01M	211.6	10-03-69	84.5	127.1	5050
		11-12-69	82.1	129.5	5050
		12-05-69	81.8	129.8	5050
		1-13-70	79.1	132.5	5050
		2-10-70	78.4	133.2	5050
		3-06-70	77.6	134.0	5050
		4-01-70	77.8	133.8	5050
		5-06-70	75.6	136.0	5050
		6-08-70	84.1	127.5	5050
12S/05E-12M04M	215.0	10-03-69	77.6	137.4	5050
		11-12-69	76.6	138.4	5050
		12-05-69	76.2	138.8	5050
		1-13-70	75.3	139.7	5050
		2-10-70	73.0	142.0	5050
		3-06-70	72.8	142.2	5050
		4-01-70	68.3	146.7	5050
		5-06-70	70.5	144.5	5050
		6-08-70	77.7	137.3	5050
12S/05E-33A02M	280.0	10-03-69	96.0	184.0	5050
		11-12-69	93.5	186.5	5050
		12-05-69	92.4	187.6	5050
		1-13-70	90.2	189.8	5050
		2-10-70	84.8	195.2	5050
		3-06-70	83.3	196.7	5050
		4-01-70	84.0	196.0	5050
		5-06-70	87.5	192.5	5050
		6-08-70	(1)		5050
12S/05E-35N02M	303.0	10-03-69	(1)		5050
		11-12-69	104.1	198.9	5050
		12-05-69	118.9	184.1	5050
		1-13-70	90.4	212.6	5050
		2-10-70	88.0	215.0	5050
		3-06-70	85.2	217.8	5050
		4-01-70	87.2	215.8	5050
		5-06-70	93.9	209.1	5050
		6-08-70	105.4	197.6	5050
13S/05E-11Q01M	325.5	3-00-70	22.3	303.2	5151

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SALINAS VALLEY 3-04.00					
PRESSURE AREA 180 FOOT AQUIFER 3-04.01					
14S/02E-03C01M	10.6	12-02-69	16.2	-5.6	2100
15S/02E-01Q01M	42.0	10-20-69	43.2	-1.2	2100
		11-18-69	40.9	1.1	2100
		12-03-69	38.7	3.3	2100
		1-15-70	28.6	13.4	2100
		2-18-70	26.6	15.4	2100
		3-16-70	29.8	12.2	2100
		4-14-70	(1)		2100
		5-21-70	(1)		2100
15S/03E-16M01M	58.0	10-22-69	49.7	8.3	2100
		11-18-69	38.5	19.5	2100
		12-04-69	38.1	19.9	2100
		1-15-70	35.6	22.4	2100
		2-18-70	29.5	28.5	2100
		3-20-70	32.8	25.2	2100
		4-14-70	53.0	5.0	2100
		5-20-70	(1)		2100
15S/04E-33A01M	125.0	12-05-69	81.3	43.7	2100
16S/04E-11D01M	110.0	12-01-69	46.0	64.0	2100
PRESSURE AREA 400 FOOT AQUIFER 3-04.01					
13S/02E-31Q01M	11.0	12-02-69	19.2	-8.2	2100
14S/03E-18J01M	69.0	10-20-69	81.7	-12.7	2100
		11-17-69	77.0	-8.0	2100
		12-03-69	75.6	-6.6	2100
		1-15-70	65.8	3.2	2100
		2-19-70	67.2	1.8	2100
		3-18-70	70.7	-1.7	2100
		4-14-70	79.2	-10.2	2100
		5-19-70	(1)		2100
EAST SIDE AREA 3-04.02					
16S/05E-17R01M	181.0	12-03-69	117.0	64.0	2100
ARROYO SECO CONE 3-04.04					
18S/06E-15M01M	277.0	10-20-69	92.5	184.5	2100
		11-19-69	91.0	186.0	2100
		12-03-69	94.2	182.8	2100
		1-14-70	88.2	188.8	2100
		2-18-70	98.0	179.0	2100
		3-18-70	97.2	179.8	2100
		4-15-70	88.1	188.9	2100
		5-21-70	93.7	183.3	2100
19S/06E-11C01M	373.0	10-22-69	166.8	206.2	2100
		11-19-69	164.0	209.0	2100
		12-03-69	161.7	211.3	2100
		1-14-70	(9)		2100
		2-16-70	162.1	210.9	2100
		3-17-70	176.0	197.0	2100
		4-15-70	(1)		2100
		5-21-70	(1)		2100
UPPER VALLEY AREA 3-04.05					
19S/07E-10P01M	315.0	10-22-69	80.5	234.5	2100
		11-19-69	82.4	232.6	2100
		12-05-69	83.8	231.2	2100
		1-13-70	79.1	235.9	2100
		2-16-70	80.1	234.9	2100
		3-17-70	91.0	224.0	2100
		4-15-70	92.6	222.4	2100
		5-21-70	103.5	211.5	2100
20S/08E-05R01M	337.0	10-22-69	66.2	270.8	2100
		11-19-69	64.6	272.4	2100
		12-02-69	65.4	271.6	2100
		1-12-70	63.6	273.4	2100
		2-16-70	65.1	271.9	2100
		3-17-70	69.3	267.7	2100
		4-15-70	(1)		2100
		5-20-70	81.5	255.5	2100

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
UPPER VALLEY AREA 3-04.05 (Continued)					
21S/09E-07J02M	364.0	10-22-69	22.3	341.7	2100
		11-19-69	21.0	343.0	2100
		12-01-69	22.6	341.4	2100
		1-12-70	23.0	341.0	2100
		2-16-70	22.9	341.1	2100
		3-16-70	22.9	341.1	2100
		4-15-70	(1)		2100
		5-20-70	24.0	340.0	2100
21S/10E-32N01M	400.0	12-01-69	22.4	377.6	2100
22S/10E-16K01M	472.0	12-01-69	68.9	403.1	2100
PASO ROBLES BASIN 3-04.06					
24S/11E-25N01M	603.3	11-28-69	40.8	562.5	5117
		2-27-70	40.3	563.0	5117
		9-30-70	38.8	564.5	5117
24S/11E-33R01M	565.0	11-28-69	32.0	533.0	5117
		2-27-70	31.0	534.0	5117
		9-30-70	31.0	534.0	5117
24S/11E-35D01M	572.1	11-28-69	33.0	539.1	5117
		2-27-70	31.5	540.6	5117
		9-30-70	31.0	541.1	5117
24S/11E-35J01M	616.8	12-18-69	59.8	557.0	5117
		4-08-70	69.8	547.0	5117
24S/15E-27L01M	1211.5	4-09-70	23.0	1188.5	5117
24S/15E-33C02M	1225.0	4-09-70	36.3	1188.7	5117
25S/11E-35G01M	895.0	12-15-69	59.5	835.5	5117
		4-07-70	60.0	835.0	5117
25S/11E-36N02M	837.5	12-15-69	44.0	793.5	5117
		4-07-70	40.0	797.5	5117
25S/12E-17J01M	640.0	12-15-69	49.2	590.8	5117
		4-08-70	61.8	578.2	5117
25S/12E-17R01M	640.0	12-15-69	46.0	594.0	5117
		4-08-70	69.0	571.0	5117
25S/12E-26K01M	749.0	12-16-69	120.0	629.0	5117
		4-08-70	114.0	635.0	5117
25S/12E-28N01M	639.0	12-16-69	16.5	622.5	5117
		4-08-70	11.9	627.1	5117
25S/13E-11E01M	1185.0	12-16-69	50.0	1135.0	5117
		4-08-70	48.7	1136.3	5117
25S/13E-19R01M	915.0	12-16-69	176.2	738.8	5117
		4-08-70	176.7	738.3	5117
25S/16E-17L01M	1164.5	4-09-70	26.1	1138.4	5117
26S/12E-04N01M	675.0	12-15-69	46.0	629.0	5117
		4-08-70	45.9	629.1	5117
26S/12E-26E01M	840.0	10-10-69	199.0	641.0	5117
		4-09-70	192.0	648.0	5117
26S/13E-05F01M	740.0	12-16-69	15.0	725.0	5117
		4-08-70	15.5	724.5	5117
26S/13E-10D01M	800.0	4-08-70	19.7	780.3	5117
26S/14E-17L01M	949.0	4-08-70	98.8	850.2	5117
26S/14E-18Q01M	930.0	4-03-70	25.9	904.1	5117
26S/14E-24B01M	1000.0	4-09-70	(1)		5117
26S/14E-35D01M	1135.0	4-14-70	126.0	1009.0	5117
26S/15E-16P02M	1047.0	4-10-70	43.4	1003.6	5117
26S/15E-21P01M	1072.0	4-10-70	(1)		5117
26S/15E-28Q01M	1090.0	4-10-70	(9)		5117
		9-14-70	(3)		5117
PASO ROBLES BASIN 3-04.06 (Continued)					
26S/15E-29N01M	1133.0	4-14-70	93.0	1040.0	5117
		8-18-70	117.0	1016.0	5117
27S/13E-24N01M	1030.0	4-10-70	33.0	997.0	5117
27S/13E-33L01M	1180.0	10-10-69	124.8	1055.2	5117
		4-10-70	105.5	1074.5	5117
27S/15E-03E01M	1120.0	12-23-69	53.6	1066.4	5117
		4-00.70	68.4	1051.6	5117
27S/15E-10R02M	1130.0	4-14-70	(3)		5117
27S/16E-07P01M	1225.0	12-23-69	64.1	1160.9	5117
		4-16-70	61.0	1164.0	5117
27S/16E-35Q01M	1281.0	12-23-69	14.0	1267.0	5117
		4-10-70	11.2	1269.8	5117
28S/12E-10R02M	805.0	4-07-70	20.5	784.5	5117
28S/12E-25R01M	877.0	10-09-69	14.6	862.4	5117
		4-07-70	10.6	866.4	5117
28S/13E-04K01M	1199.5	4-10-70	36.5	1163.0	5117
28S/13E-31K01M	884.8	4-07-70	16.6	868.2	5117
28S/16E-23M01M	1440.0	4-10-70	24.8	1415.2	5117
29S/13E-05F03M	915.6	4-07-70	13.3	902.3	5117
29S/13E-05K02M	928.5	4-07-70	9.6	918.9	5117
29S/13E-06A01M	920.0	10-09-69	51.7	868.3	5117
		4-07-70	45.0	875.0	5117
29S/13E-08M01M	945.0	10-09-69	12.2	932.8	5117
		4-07-70	12.6	932.4	5117
29S/13E-19H01M	1002.1	10-09-69	17.3	984.8	5117
		4-07-70	5.8	996.3	5117
SEASIDE AREA 3-04.08					
14S/02E-31M01M	119.9	10-22-69	129.1	-9.2	5005
		12-00-69	123.5	-3.6	5005
		1-00-70	121.8	-1.9	5005
		3-00-70	121.0	-1.1	5005
		4-00-70	123.8	-3.9	5005
		6-00-70	128.3	-8.4	5005
		7-00-70	131.7	-11.8	5005
15S/01E-14N01M	144.6	10-22-69	128.6	16.0	5005
		12-00-69	117.7	26.9	5005
		1-00-70	117.4	27.2	5005
		3-00-70	120.8	23.8	5005
		4-00-70	127.6	17.0	5005
		6-00-70	125.6	19.0	5005
		7-00-70	126.3	18.3	5005
CARMEL VALLEY 3-07.00					
16S/01E-16L01M	75.0	10-23-69	18.3	56.7	2100
		11-24-69	18.4	56.6	2100
		12-18-69	18.0	57.0	2100
		1-19-70	17.3	57.7	2100
		2-20-70	17.3	57.7	2100
		3-19-70	15.4	59.6	2100
		4-17-70	17.7	57.3	2100
		5-21-70	17.9	57.1	2100
16S/01E-22E01M	82.0	10-23-69	26.4	55.6	2100
		11-24-69	(1)		2100
		12-17-69	27.0	55.0	2100
		1-19-70	(9)		2100
		2-20-70	(9)		2100
		3-19-70	29.3	52.7	2100
		4-17-70	26.0	56.0	2100
		5-21-70	33.4	48.6	2100

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CARMEL VALLEY 3-07.00 (Continued)					
16S/01E-23F01M	109.0	10-23-69	29.8	79.2	2100
		11-24-69	30.5	78.5	2100
		12-17-69	31.8	77.2	2100
		1-19-70	32.3	76.7	2100
		2-20-70	26.2	82.8	2100
		3-19-70	24.4	84.6	2100
		4-17-70	26.1	82.9	2100
		5-21-70	26.0	83.0	2100
16S/01E-25B01M	140.0	10-23-69	16.8	123.2	2100
		11-24-69	17.5	122.5	2100
		12-17-69	17.5	122.5	2100
		1-19-70	16.7	123.3	2100
		2-20-70	15.5	124.5	2100
		3-19-70	15.7	124.3	2100
		4-17-70	(1)		2100
		5-21-70	17.5	122.5	2100

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, 1969, through September 30, 1970. The data were collected from 110 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 used 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", 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 (EO)

EO 3300	Suisun Bay at Benicia

Napa-Solano (E3)

E3 1400	Rector Reservoir near Yountville

SURFACE WATER QUALITY STATIONS

Hydrographic Area D

Santa Cruz (DO)

DO 1100.00	Branciforte Creek at Santa Cruz
DO 1180.01	San Lorenzo River at Paradise Park
DO 1200.00	San Lorenzo River at Big Trees
DO 1220.01	Zayante Creek at Felton
DO 1498.01	San Lorenzo River at Boulder Creek
DO 2020.00	Aptos Creek below Valencia Creek at Aptos
DO 3100.00	Soquel Creek at Soquel
DO 4010.01	Scott Creek at Highway 1 near Davenport

Pajaro-San Benito Rivers (D1)

D1 1250.00	Pajaro River at Chittenden
D1 1371.50	Uvas Creek near Morgan Hill below Uvas Dam
D1 2450.00	San Benito River near Willow Creek School

Lower Salinas River (D2)

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

Monterey Coast (D4)

D4 1200.00	Carmel River at Robles Del Rio

Hydrographic Area E

San Francisco Bay (EO)

EO B 735.0 215.0	San Francisco Bay at San Mateo Bridge Ship Channel
EO B 736.2 211.6	San Francisco Bay at San Mateo Bridge
EO B 748.1 222.4	San Francisco Bay west of Yerba Buena Island
EO B 757.7 226.2	San Pablo Strait west of The Brothers

Napa-Solano (E3)

E3 1250.00	Napa River near Napa
E3 2100.57	Green Valley Creek near Cordelia

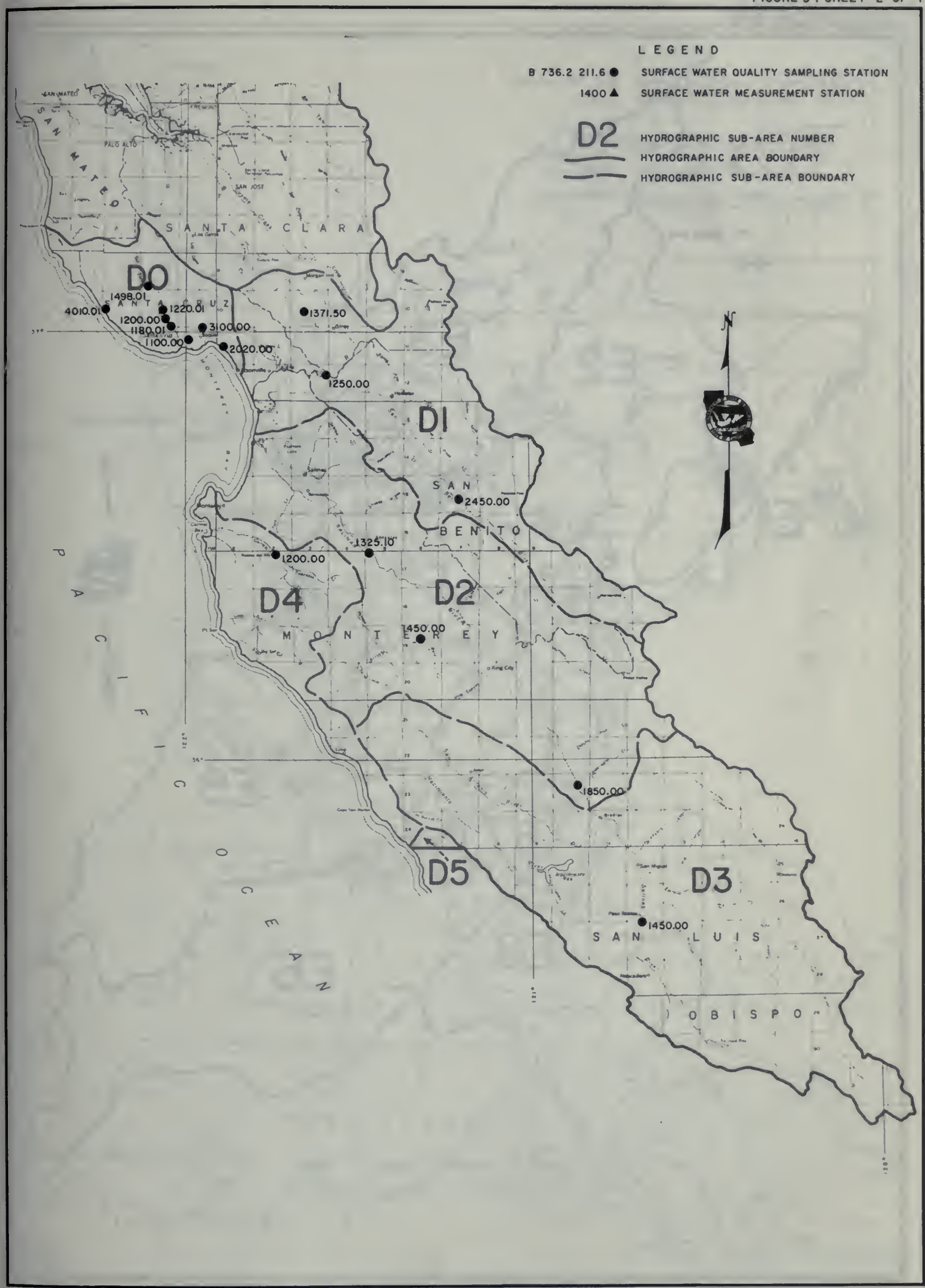
Hydrographic Area F

Mendocino Coast (F8)

F8 2100.00	Navarro River near Navarro
F8 2720.00	Big River near Mendocino
F8 3100.00	Noyo River near Fort Bragg

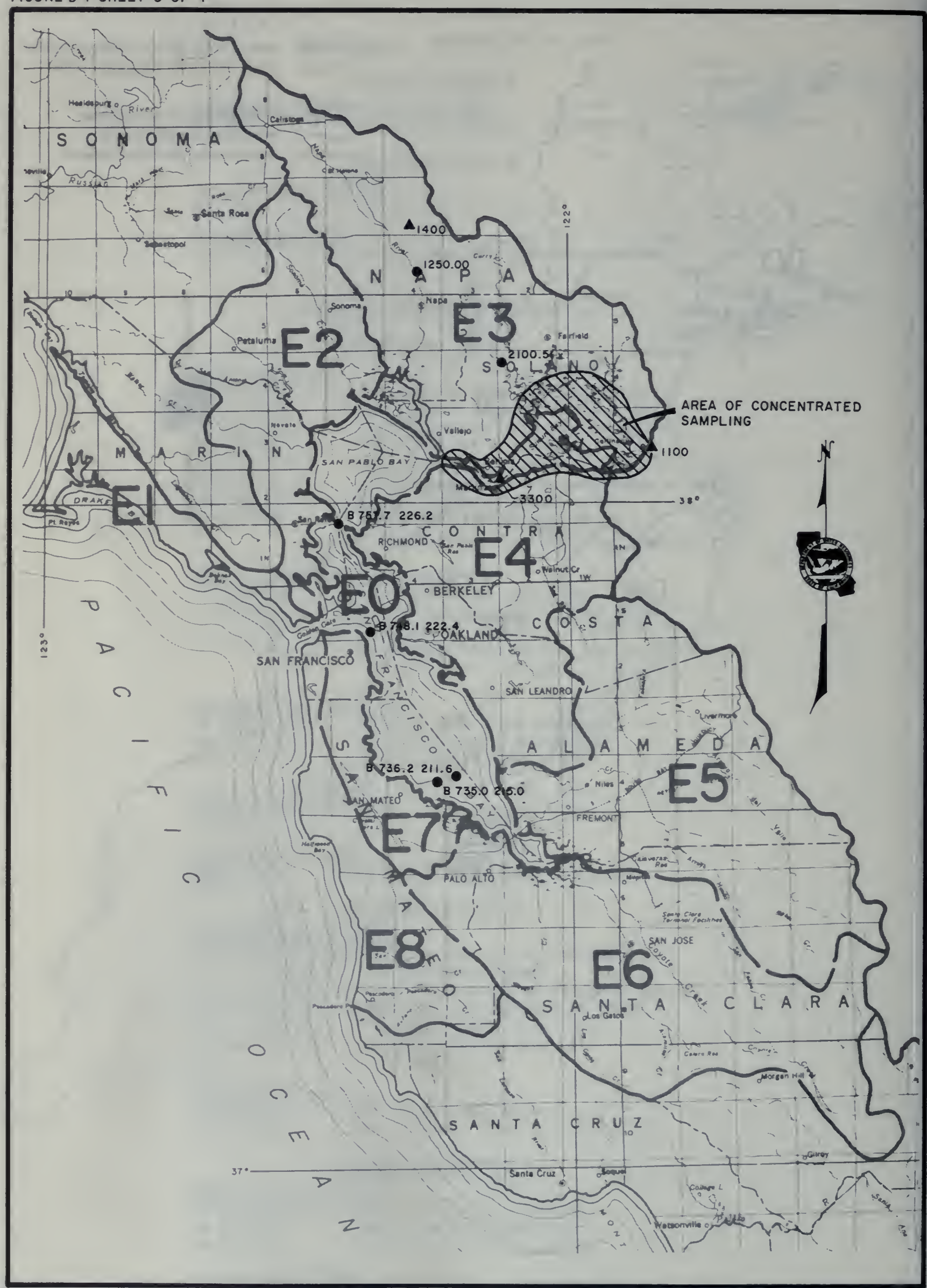
Russian River (F9)

F9 1080.50	Russian River at Guerneville
F9 1100.00	Russian River near Guerneville

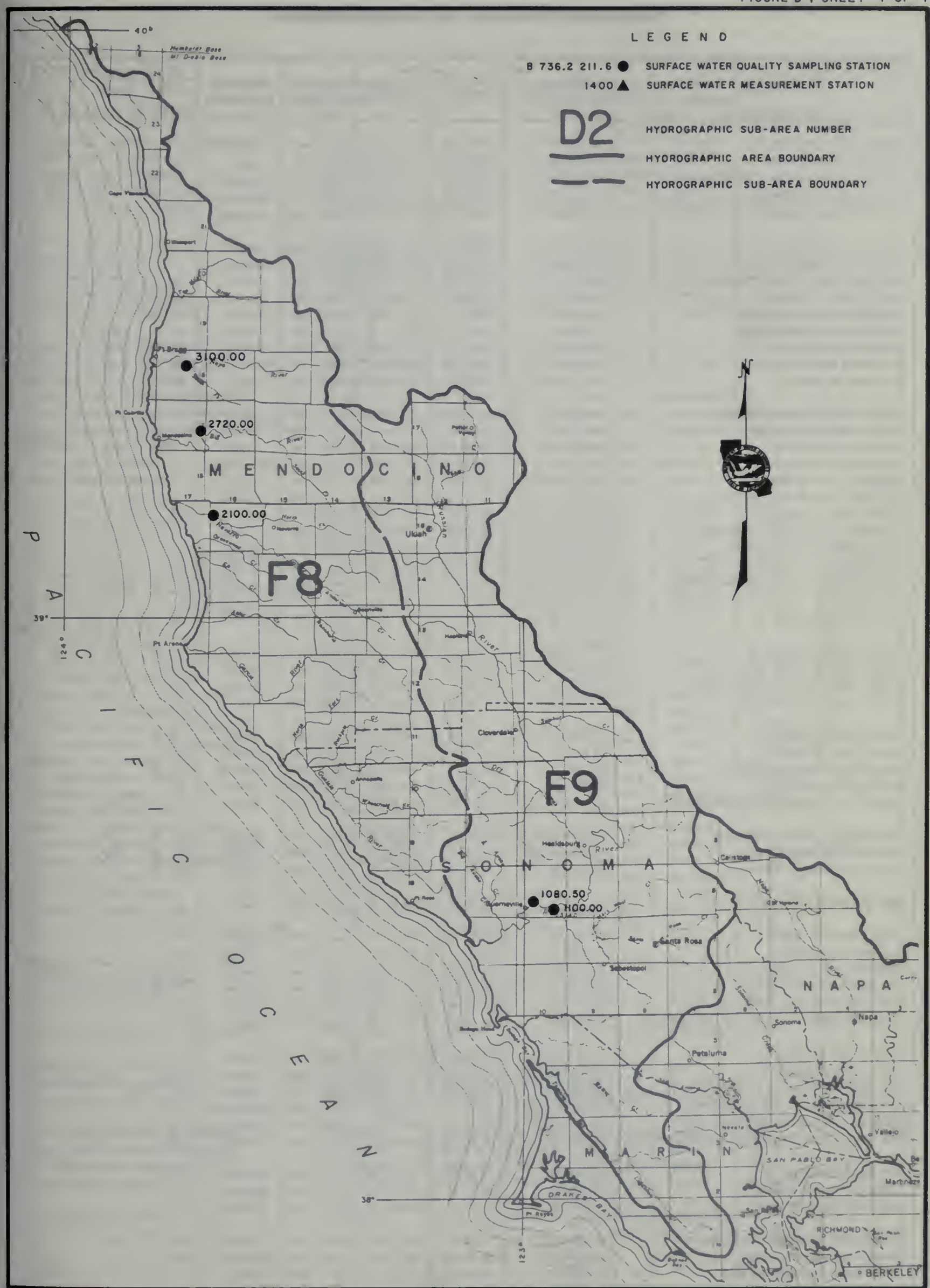


SURFACE WATER OBSERVATION STATIONS 1969-70

FIGURE D-I SHEET 3 OF 4



SURFACE WATER OBSERVATION STATIONS 1969-70



SURFACE WATER OBSERVATION STATIONS 1969-70

TABLE D-I

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	D-8 D-9
ALDER CREEK AT HIGHWAY 1	D4 3035.30	35 51 30	121 24 54	April 1969	Special	67						
ANDERSON CANYON AT HIGHWAY 1	D4 3310.30	36 09 12	121 40 00	April 1969	Special	68						
APTOS CREEK BELOW VALENCIA CREEK AT APTOS	D0 2020.00	36 58 26	121 54 10	March 1970	Semiannually	63	81		98			
ARROYO SECO NEAR GREENFIELD	D2 1475.00	36 14 12	121 28 48	July 1969	Semiannually	66	83					
ARROYO SECO NEAR SOLEDAD	D2 1450.00	36 16 42	121 19 30	April 1969	Irregular	66	82					
BIG CREEK AT HIGHWAY 1	D4 3201.50	36 04 18	121 35 48	April 1969	Special		85					
BIG RIVER NEAR MENDOCINO*	F8 2720.00	39 18 48	123 42 12	Jan. 1959	Bimonthly	79						
BIG SANDY CREEK AT INDIAN VALLEY ROAD	D3 1035.50	35 48 36	120 42 42	April 1969	Special	66						
BIG SUR RIVER AT BIG SUR	D4 2100.00	36 14 42	121 46 18	April 1969	Special	66	84					
BIXBY CREEK AT OLD COAST ROAD	D4 3628.50	36 22 12	121 53 36	April 1969	Special		86					
BLANCO DRAIN AT HITCHCOCK ROAD	D2 1208.30	36 40 24	121 42 06	Oct. 1969	Special	65			100			
BLANCO DRAIN AT PUMP LIFT	D2 1030.30	36 42 36	121 44 36	May 1970	Special	65	82		100			
BRANCIFORTE CREEK AT SANTA CRUZ	D0 1100.00	36 59 10	122 00 47	March 1970	Semiannually	63	81		98			
BUCK CREEK AT HIGHWAY 1	D4 3300.30	36 08 12	121 38 42	April 1969	Special	68						
CARMEL HIGHLANDS CREEK AT HIGHWAY 1	D4 3770.50	36 30 18	121 56 12	Jan. 1970	Special	69						
CARMEL RIVER AT BERONDA ROAD	D4 1095.10	36 29 18	121 44 48	Jan. 1969	Special	66	83		100			
CARMEL RIVER NEAR MOUTH	D4 1008.50	36 32 12	121 55 36	May 1971	Special		83		100			
CARMEL RIVER AT ROBLES DEL RIO	D4 1200.00	36 28 30	121 43 36	Jan. 1959	Semiannually	66	83					
CARQUINEZ STRAIT AT CROCKETT	E0 B 803.5 213.3	38 03 28	122 13 18	1946	Four-Day			94				
CARQUINEZ STRAIT AT MARTINEZ	E0 B 801.9 207.8	38 01 55	122 07 46	1926	Four-Day			94				
CASTRO CANYON AT HIGHWAY 1	D4 3350.50	36 13 00	121 45 00	April 1969	Special	68						
CHADBOURNE SLOUGH AT CHADBOURNE ROAD	E0 S 811.0 204.8	38 10 57	122 04 50	Jan. 1967	Monthly	75	91					
CHUALAR CREEK AT OLD STAGE ROAD	D2 1290.50	36 34 42	121 29 42	Jan. 1970	Special	65						
CORDELIA SLOUGH AT CYGNUS	E0 S 809.2 205.3	38 09 10	122 05 19	Jan. 1967	Monthly	74	91		104			
CORDELIA SLOUGH AT UPPER END NEAR CORDELIA	E0 S 811.5 207.2	38 11 27	122 07 09	Sept. 1967	Monthly	77	92		105			
DOLAN CANYON AT HIGHWAY 1	D4 3240.50	36 06 24	121 37 16	April 1969	Special	68						
ELKHORN SLOUGH AT HIGHWAY 1	D1 3150.30	36 48 36	121 47 00	May 1970	Special		81		99			
EL TORO CREEK AT POTTER RANCH	D2 1195.20	36 33 12	121 43 54	March 1970	Special	65						
EL TORO CREEK NEAR SAN BENANCIO BRIDGE	D2 1185.20	36 34 42	121 43 12	March 1970	Special	65						
ESTRELLA RIVER AT RIVER ROAD	D3 1185.50	35 43 36	120 41 06	April 1969	Special	66						
GARRAPATA CREEK AT HIGHWAY 1	D4 3645.50	36 25 00	121 54 42	April 1969	Special	69	87					
GRANITE CREEK AT HIGHWAY 1	D4 3700.50	36 26 12	121 55 00	April 1969	Special	69						
GREEN VALLEY CREEK AT CORDELIA	E3 2100.51	38 12 43	122 07 42	Dec. 1968	Irregular	78	93					
GRIMES CANYON AT HIGHWAY 1	D4 3345.30	36 12 30	121 44 00	April 1969	Special	68						
GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH	E0 B 807.0 202.3	38 07 02	122 02 19	Jan. 1968	Monthly	74	90		104			
HILL SLOUGH AT GRIZZLY ISLAND ROAD	E0 S 813.6 201.2	38 13 34	122 01 14	Feb. 1967	Monthly	77	92		105			
HONKER BAY NEAR WHEELER POINT	E0 B 804.4 156.2	38 04 26	121 56 12	Jan. 1968	Monthly	73	90		104			
HOT SPRINGS CANYON AT HIGHWAY 1	D4 3280.50	36 07 30	121 38 12	April 1969	Special	68	86					
JUAN HIGUERA CREEK AT HIGHWAY 1	D4 2061.20	36 15 52	121 47 55	Jan. 1970	Special	66						
LAFLER CANYON AT HIGHWAY 1	D4 3340.30	36 12 12	121 43 30	April 1969	Special	68						
LIME CREEK AT HIGHWAY 1	D4 3260.50	36 07 18	121 37 48	April 1969	Special	68						
LIMEKILN CREEK AT HIGHWAY 1	D4 3105.50	36 00 30	121 31 06	April 1969	Special	67	85					
LITTLE SUR RIVER AT HIGHWAY 1	D4 3610.20	36 19 54	121 53 06	Feb. 1969	Special	68	86					
LITTLE SUR RIVER ABOVE SOUTH FORK	D4 3614.30	36 19 48	121 51 48	Feb. 1970	Special	68						
LITTLE SUR RIVER, SOUTH FORK, AT OLD COAST ROAD	D4 3613.30	36 19 42	121 51 48	Feb. 1970	Special	68						
MALPASO CREEK AT HIGHWAY 1	D4 3746.50	36 28 48	121 56 12	April 1969	Special	69						
McWAY CANYON AT HIGHWAY 1	D4 3320.30	36 09 30	121 40 12	April 1969	Special	68						
MILL CREEK AT HIGHWAY 1	D4 3081.50	35 58 54	121 29 37	April 1969	Special	67						
MONTEZUMA SLOUGH NEAR BELDONS LANDING	E0 S 811.2 158.2	38 11 13	121 58 10	July 1968	Semimonthly	76						
MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD	E0 S 811.2 158.5	38 11 14	121 58 32	Feb. 1967	Monthly	77	92		105			
MORO CANYON CREEK AT HWY 101 & SAN MIGUEL CANYON RD	D2 1070.20	36 48 07	121 39 35	March 1970	Special	65						
NAPA RIVER NEAR NAPA	E3 1250.00	38 22 06	122 18 08	Nov. 1929	Bimonthly	78						
NAVARRO RIVER NEAR NAVARRO	F8 2100.00	39 10 15	123 39 55	Jan. 1959	Bimonthly	78						
NOYO RIVER NEAR FORT BRAGG	F8 3100.00	39 25 40	123 44 10	Jan. 1951	Bimonthly	79						
PACIFIC OCEAN AT CARMEL S. T. P. OUTFALL	D4 1007.60	36 32 06	121 55 42	May 1970	Special	66	83		100			
PAJARO RIVER NEAR CHITTENDEN	D1 1250.00	36 54 00	121 35 54	Dec. 1951	Bimonthly	64	81					
PAJARO RIVER AT THURWACHTER ROAD	D1 1075.30	36 52 48	121 47 30	May 1970	Special		81		99			

*BIG RIVER NEAR MENDOCINO was previously reported as BIG RIVER NEAR MOUTH.

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	D-8 D-9
PALO COLORADO CANYON AT PALO COLORADO ROAD	D4 3640.50	36 24 00	121 54 06	Jan. 1970	Special	69	86					
PARADISE CANYON AT MOUTH	D1 3090.20	36 48 26	121 42 10	March 1970	Special	64						
PARTINGTON CREEK AT HIGHWAY 1	D4 3330.30	36 10 30	121 41 32	April 1969	Special		86					
PLASKETT CREEK AT HIGHWAY 1	D4 3063.50	35 55 18	121 28 06	April 1969	Special	67						
POND, ON SAN MIGUEL CANYON ROAD	D1 3260.20	36 52 22	121 41 20	March 1970	Special	64						
RAT CREEK NEAR LUCIA	D4 4100.00	36 05 30	121 37 00	April 1969	Special	69						
REDWOOD GULCH NEAR JOLON	D4 3010.00	35 50 12	121 23 24	April 1969	Special	67	84					
ROCKY CREEK AT HIGHWAY 1	D4 3635.50	36 22 42	121 54 00	April 1969	Special	68						
RUSSIAN RIVER AT GUERNEVILLE	F9 1080.50	38 30 02	122 59 39	April 1951	Bimonthly	79						
RUSSIAN RIVER NEAR GUERNEVILLE	F9 1100.00	38 30 00	122 56 05	Nov. 1969	Irregular	79						114
SACRAMENTO RIVER AT CHIPPS ISLAND	E0 B 802.8 155.0	38 02 47	121 55 02	Jan. 1968	Monthly	71	89		102			
SACRAMENTO RIVER AT COLLINSVILLE	B9 D 804.4 151.0	38 04 27	121 50 58	July 1958	Four-Day			94				
SACRAMENTO RIVER AT PITTSBURG	B9 D 802.3 153.0	38 02 18	121 52 58	1945	Four-Day			94				
SALINAS RECLAMATION CANAL AT AIRPORT WAY	D2 1020.70	36 39 42	121 37 18	May 1970	Semiannually	65	82		99			
SALINAS RECLAMATION CANAL AT BORONDA ROAD	D2 1010.20	36 41 24	121 40 48	May 1970	Special	64	82		99			
SALINAS RECLAMATION CANAL AT END OF MERCED STREET	D2 1015.50	36 40 30	121 38 24	May 1970	Semiannually	64	82		99			
SALINAS RIVER AT BLANCO ROAD	D2 1150.30	36 40 42	121 44 42	May 1970	Special		82		100			
SALINAS RIVER AT BRADLEY	D2 1850.00	35 55 42	120 52 00	July 1958	Semiannually	66	83					
SALINAS RIVER NEAR GONZALES	D2 1325.10	36 29 12	121 28 06	May 1969	Bimonthly	65	82					111 113
SALINAS RIVER AT PASO ROBLES	D3 1450.00	35 37 42	120 41 06	April 1951	Semiannually	66						
SALINAS RIVER NEAR SPRECKELS	D2 1220.00	36 37 48	121 40 42	April 1951	Special	65	82		100			
SALMON CREEK AT HIGHWAY 1	D4 3003.50	35 48 54	121 21 30	April 1969	Special	67	84					
SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL*	D1 2450.00	36 36 30	121 12 00	July 1958	Semiannually	64						
SAN FRANCISCO BAY AT SAN MATEO BRIDGE	E0 B 736.2 211.6	37 36 14	122 11 34	Oct. 1964	Bimonthly	70	87		101	107	110	
SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	E0 B 735.0 215.0	37 35 01	122 14 59	Sept. 1969	Bimonthly	70	87		101	107	110	
SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	E0 B 748.1 222.4	37 48 04	122 22 25	Sept. 1969	Monthly	70	88		101	107	110	
SAN JOSE CREEK AT HIGHWAY 1	D4 3800.50	36 31 24	121 55 30	April 1969	Special	69	87		100			
SAN LORENZO RIVER AT BIG TREES	D0 1200.00	37 01 40	122 03 30	Dec. 1951	Bimonthly	63			98			
SAN LORENZO RIVER AT BOULDER CREEK	D0 1498.01	37 06 47	122 06 40	March 1970	Semiannually	63	81		98			
SAN LORENZO RIVER AT PARADISE PARK	D0 1180.01	37 00 37	122 02 34	Sept. 1969	Continuous	63	81		98			112
SAN MIGUEL CREEK EAST OF BACKIE ROAD	D2 1060.20	36 46 08	121 39 49	March 1970	Special	65						
SAN PABLO BAY AT POINT DAVIS	E0 B 803.4 215.6	38 03 24	122 15 37	Nov. 1969	Irregular	72						
SAN PABLO STRAIT WEST OF THE BROTHERS	E0 B 757.7 226.2	37 57 45	122 26 10	Sept. 1969	Monthly	70	88		101	107	110	
SCOTT CREEK AT HIGHWAY 1 NEAR DAVENPORT	D0 4010.01	37 02 26	122 13 39	March 1970	Special	63	81		99			
SOBERANES CREEK AT HIGHWAY 1	D4 3743.50	36 27 24	121 55 24	April 1969	Special	69						
SODA SPRINGS CREEK AT HIGHWAY 1	D4 3005.50	35 49 18	121 22 24	April 1969	Special	67	84					
SOQUEL CREEK AT SOQUEL	D0 3100.00	36 59 29	121 57 17	Dec. 1951	Semiannually	63	81		98			
SUISUN BAY ABOVE AVON PIER	E0 B 803.2 204.8	38 03 13	122 04 48	Sept. 1968	Monthly	72	89		103			
SUISUN BAY AT BENICIA (MIDDLE OF PIER)	E0 B 802.5 208.1	38 02 29	122 08 05	March 1969	Irregular	71						
SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	E0 B 802.3 207.1	38 02 20	122 07 06	Feb. 1968	Monthly	71	88		102	107		
SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS	E0 B 803.6 159.3	38 03 36	121 59 20	Jan. 1968	Monthly	73	89		103			
SUISUN BAY AT NICHOLS	E0 B 803.0 159.0	38 03 02	121 59 38	Jan. 1945	Four-Day			94				
SUISUN BAY AT PORT CHICAGO	E0 B 803.4 202.3	38 03 24	122 02 20	1946	Four-Day	72		94				
SUISUN BAY NEAR PRESTON POINT	E0 B 804.0 203.0	38 03 58	122 03 00	Sept. 1968	Monthly	73	90		103			
SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND	E0 S 810.8 202.8	38 10 50	122 02 45	Jan. 1967	Monthly	75	91		105			
TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN	D2 1006.60	36 45 06	121 44 12	Aug. 1970	Irregular	64	82		99			
TEMBLADERO SLOUGH AT NASHUA ROAD	D2 1006.30	36 46 18	121 47 12	May 1970	Semiannually	64	82		99			
TORRE CANYON AT HIGHWAY 1	D4 3335.50	36 11 48	121 42 30	April 1969	Special	68						
UVAS CREEK NEAR MORGAN HILL BELOW UVAS DAM	D1 1371.50	37 03 36	121 40 18	July 1952	Semiannually	64						
VICENTE CREEK AT HIGHWAY 1	D4 3180.50	36 02 36	121 35 00	April 1969	Special	67						
VIERRA CREEK EAST OF HIGHWAY 101	D2 1065.20	36 47 32	121 39 58	March 1970	Special	65						
VILLA CREEK AT HIGHWAY 1	D4 3020.30	35 50 54	121 24 20	April 1969	Special		84					
WATSON CREEK NEAR CORRAL DE TIERRA ROAD	D2 1198.20	36 32 54	121 43 48	March 1970	Special	65						
WILDCAT CREEK AT END OF PETER PAN ROAD	D4 3750.15	36 29 24	121 56 12	Jan. 1970	Special	69	87					
WILD CATTLE CREEK AT HIGHWAY 1	D4 3078.50	35 58 12	121 28 54	April 1969	Special	67	85					
WILLOW CREEK AT HIGHWAY 1	D4 3050.20	35 53 42	121 27 30	April 1969	Special	67	85					
ZAYANTE CREEK AT FELTON	D0 1220.01	37 02 53	122 04 00	March 1970	Semiannually	63	81		98			

*SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL was previously reported as SAN BENITO RIVER NEAR BEAR VALLEY FIRE STATION.

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

Abbreviations and Codes

Sampler - Codes for agency collecting sample

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

Lab - Codes for laboratory performing analysis

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

G.H. - Instaneous gage height in feet above an established datum
Q - Instaneous discharge measured in cubic feet per second
Depth - Depth at which sample was collected

DO - Dissolved oxygen content in milligrams per liter
Sat - Percent saturation

Temp - Water temperature in degrees Fahrenheit (F) and Celsius (C)

pH - Measure of acidity or alkalinity of water

EC - Specific electrical conductance in micromhos at 25° C

TDS - Gravimetric determination of total dissolved solids at 180° C
Sum - Summation of analyzed constituents in prescribed manner

TH - Total hardness
NCH - Noncarbonate hardness, any excess of total hardness over total alkalinity

Turb - Jackson Turbidity Units

E - Measured with a Hellege Turbidmeter
A - Measured with a Hach Nephelometer
F - Measured with a Hach Kit in the field

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	NO_3	-	Nitrate
F	-	Fluoride	SiO_2	-	Silica
HCO_3	-	Bicarbonate	SO_4	-	Sulfate

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. J	DO SAT	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
DO 1120.00					SPANCIFORTE CREEK AT SANTA CRUZ															
03/17/70	5050		10.6	53	F 7.4	280	25	8.1	19	--	.0	96	--	21	3.3	--	--	190	96	15E
0720	5050		94	12	C 7.9	284	1.25	.67	.83		.00	1.57		.59	.05		--		18	
							44	24	29			55		21	2					
08/04/70	5050		10.5	53	F 8.0		52	18	35	--	.0	210	--	33	--	--	--	310	205	4E
1110	5050		102	14	C 8.1	534	2.59	1.50	1.52		.00	3.44		.93			--		33	
							49	28	28			64		17						
DO 1120.01					SAN LORENZO RIVER AT PARADISE PARK															
01/27/70	5050		10.8	52	F 7.3	195	23	4.5	10	--	.0	80	--	9.3	--	--	--		76	120E
1530	5050		98	11	C 7.3	213	1.15	.37	.44		.00	1.31		.26			--		11	
							53	17	20			61		12						
03/16/70	5050		10.7	56	F 7.6	315	36	7.3	16	--	.0	114	--	14	.5	--	--	190	120	10E
1410	5050		102	13	C 8.0	285	1.80	.60	.70		.00	1.87		.39	.01		--		27	
							63	21	24			65		14						
08/04/70	5050		10.5	51	F 8.0	324	38	8.0	19	--	.0	130	--	22	--	--	--	196	128	2E
1015	5050		107	16	C 8.0	335	1.90	.66	.83		.00	2.13		.62			--		22	
							56	20	25			63		18						
DO 1200.00					SAN LORENZO RIVER AT BIG TREES															
11/18/69	5050		13.7	45	F 7.6	360	40	7.5	22	--	.0	137	--	23	--	--	--		131	9E
0930	5050		113	7	C 7.8	362	2.00	.62	.96		.00	2.25		.65			--		19	
							55	17	27			62		18						
12/18/69	5050		12.6	54	F 8.2	350	--	--	--	--	--	--	--	--	--	--	--			
1315			117	12	C												--			
DO 1220.01					ZAYANTE CREEK AT FELTON															
03/16/70	5050		10.3	56	F 7.9	340	42	9.7	19	--	.0	121	--	16	1.0	--	--	250	145	10E
1615	5050		99	13	C 8.1	368	2.10	.80	.83		.00	1.98		.45	.02		--		46	
							57	22	23			54		12	1					
08/04/70	5050		10.0	59	F 7.8		39	7.6	21	--	.0	120	--	24	--	--	--	215	129	2E
0930	5050		100	15	C 8.1	354	1.95	.62	.91		.00	1.97		.68			--		30	
							55	18	26			56		19						
DO 1498.01					SAN LORENZO RIVER AT BOULDER CREEK															
03/16/70	5050		10.6	53	F 7.7	305	39	8.1	19	--	.0	116	--	15	.2	--	--	208	131	7E
1545	5050		98	12	C 8.1	344	1.95	.67	.83		.00	1.90		.42	.00		--		36	
							56	19	24			55		12						
08/04/70	5050		9.5	62	F 7.6		50	18	31	--	.0	178	--	34	--	--	--	275	201	2E
0850	5050		98	17	C 7.9	481	2.50	1.51	1.35		.00	2.92		.96			--		55	
							51	31	28			60		20						
DO 2020.00					APTOS CREEK BELOW VALENCIA CREEK AT APTOS															
03/17/70	5050		11.1	56	F 7.9	450	42	18	25	--	.0	164	--	19	.6	--	--	284	183	25E
0820	5050		99	10	C 8.2	455	2.10	1.55	1.09		.00	2.69		.54	.01		--		48	
							46	34	24			59		12						
08/04/70	5050		11.0	57	F 8.4		65	30	54	--	9.0	262	--	52	--	--	--	432	289	0.9E
1210	5050		105	14	C 8.5	745	3.24	2.53	2.35		.30	4.30		1.47			--		59	
							43	34	32		4	58		20						
DO 3100.00					SOQUEL CREEK AT SOQUEL															
01/28/70	5050		11.8	46	F 7.6	375	40	13	17	--	.0	124	--	13	--	--	--		154	45E
0730	5050		97	8	C 7.6	372	2.00	1.08	.74		.00	2.03		.37			--		53	
							51	27	19			51		9						
03/17/70	5050		11.2	49	F 8.0	510	59	17	26	--	.0	166	--	22	--	--	--	344	217	8E
0800	5050		97	9	C 8.2	528	2.94	1.40	1.13		.00	2.72		.62			--		81	
							52	25	20			48		11						
08/04/70	5050	2.66	11.5	65	F 8.4		70	25	44	--	5.0	220	--	66	--	--	--	439	280	1E
1250	5050		122	18	C 8.4	716	3.49	2.10	1.91		.17	3.61		1.86			--		91	
							46	28	25		2	47		24						
DO 4010.01					SCOTT CREEK AT HIGHWAY 1 NEAR DAVENPORT															
03/17/70	5050		10.7	51	F 7.2	265	15	6.2	30	--	.0	65	--	44	.6	--	--	156	63	7E
0930	5050		95	11	C 7.7	283	.75	.51	1.31		.00	1.07		1.24	.01		--		10	
							27	18	46			38		44						
08/04/70	5050		11.5	57	F 7.2		21	10	32	--	.0	97	--	38	--	--	--	197	94	1E
0845	5050		110	14	C 7.8	348	1.05	.83	1.39		.00	1.59		1.07			--		15	
							30	24	40			46		31						

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H.	DO SAT	TEMP		FIELD PH	LABORATORY EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	MILLIGRAMS PER LITER: SIO2	TDS	IN NCH	TURB
	D1	1250.00				PAJARO RIVER NR CHITTENDEN																
03/06/70		7.33	9.7	53	F	7.6	425	--	--	--	--	--	--	--	--	--	--	--				
1005	5050		89	12	C													--				
04/07/70	5050	2.86	9.3	51	F	8.0	900	64	47	66	2.4	21	274	133	65	19	.40	--		530	352	
0900	5050		93	16	C	8.8	922	3.19	3.86	2.87	.06	.70	4.49	2.77	1.83	.31		--		555	93	
								32	39	29	1	7	44	27	18	3						
05/05/70	5050	2.61	10.5	62	F	8.2	1200	--	--	109	--	.0	444	--	114	--	.60	--			535	
0930	5050		107	17	C	8.1	1360			4.74		.00	7.28		3.21			--				
										35			54		24							
07/09/70	5050	2.24	8.9	65	F	8.1	1650	--	--	176	--	.0	533	--	176	--	.90	--			564	
0930	5050		95	18	C	8.3	1790			7.66		.00	8.74		4.96			--				
										43			49		28							
08/04/70	5050	2.20	9.4	64	F	8.2	1900	95	85	233	4.6	.0	539	346	204	7.6	1.20	--		1280	565	
0920	5050		98	18	C	8.1	1890	4.74	6.99	10.14	.12	.00	8.84	7.20	5.75	.12		--		1246	145	
								22	32	46	1		40	33	26	1						
09/04/70	5050							--	--	189	--	.0	548	--	177	--	1.00	--			542	
1420						8.0	1700			8.22		.00	8.99		4.99			--				
										48			53		29							
	D1	1371.50				UVAS CREEK NR MORGAN HILL BL UVAS DAM																
04/07/70	5050		9.7	52	F	7.4	280	29	14	9.8	1.1	3.0	140	21	5.4	1.0	.10	--		154	130	
0800	5050		89	11	C	8.5	282	1.45	1.15	.43	.03	.10	2.30	.44	.15	.02		--		154	10	
								47	38	14	1	3	76	15	5	1						
08/04/70	5050		9.8	65	F	7.8	310	32	15	9.6	1.0	.0	160	25	5.8	.4	.00	--		175	142	
1050	5050		106	18	C	8.1	299	1.60	1.23	.42	.03	.00	2.62	.52	.16	.01		--		169	11	
								49	38	13	1		79	16	5							
	D1	2450.00				SAN BENITO RIVER NR WILLOW CREEK SCHOOL																
04/07/70	5050	1.73	9.4	72	F	8.4	1400	38	101	158	3.9	54	402	307	90	1.0	1.50	--		933	511	
1115	5050		110	21	C	8.9	1480	1.90	8.30	6.87	.10	1.80	6.59	6.39	2.54	.02		--		955	91	
								11	48	40	1	10	38	37	15							
08/04/70	5050	1.48	10.8	62	F	8.2	1300	34	101	131	3.3	.0	542	241	69	.5	1.60	--		853	500	
0745	5050		113	17	C	8.3	1330	1.70	8.30	5.70	.08	.00	8.89	5.01	1.95	.01		--		852	56	
								11	53	36	1		56	32	12							
	D1	3090.20				PARADISE CANYON AT MOUTH																
03/05/70	5050							32	13	26	9.8	.0	127	28	--	--	--	--			134	
0830	5050							1.60	1.07	1.13	.25	.00	2.08	.58				--			30	
								40	26	28	6											
	D1	3260.20				POND, ON SAN MIGUEL CANYON ROAD																
03/04/70	5050							24	.0	20	8.8	.0	73	9.4	26	1.9	.10	--		148	60	
0945	5050					7.1	244	1.20	.00	.87	.23	.00	1.20	.20	.73	.03		--		127	0	
								52		38	10		56	9	34	1						
	D2	1006.30				TEMBLADERO SLOUGH AT NASHUA ROAD																
05/05/70	5050		14.0	67	F	8.2	1750	343	69.4	175	--	.0	388	--	265	--	--	--			571	
1715	5050		153	19	C	8.4	1790	17.12	5.70	7.61		.00	6.36		7.47			--			253	
								96	32	43			36		42							
08/25/70	5050		13.3	67	F	8.4	2250	94	64	352	--	.0	410	--	472	--	--	--			498	
1135	5050		145	19	C	8.2	2430	4.69	5.26	15.31		.00	6.72		13.31			--			162	
								19	22	63			28		55							
	D2	1006.60				TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN																
08/25/70			12.3	69	F	8.4	2400	--	--	--	--	--	--	--	--	--	--	--				
1230	5050		138	21	C													--				
09/04/70	5050							175	142	412	9.0	.0	591	805	400	4.5	.60	--		2290	1020	
1010	5050					8.2	3150	8.73	11.67	17.92	.23	.00	9.69	16.74	11.28	.07		--		2244	535	
								23	30	46	1		26	44	30							
	D2	1010.20				SALINAS RECLAMATION CANAL AT BORONDA ROAD																
05/05/70	5050		3.7	66	F	7.3	1300	91	34	115	--	.0	278	--	188	--	--	--			371	
1530	5050		39	19	C	7.6	1270	4.54	2.87	5.00		.00	4.56		5.30			--			143	
								36	23	39			36		42							
	D2	1015.50				SALINAS RECLAMATION CANAL AT END OF MERCED STREET																
05/05/70	5050		5.2	71	F	7.5	1600	125	45	165	--	.0	354	--	270	--	--	--			498	
1455	5050		59	22	C	7.3	1680	6.24	3.71	7.18		.00	5.81		7.61			--			207	
								37	22	43			35		45							
08/25/70	5050		6.8	66	F	7.4	850	57	27	80	--	.0	218	--	123	--	--	--			254	
1045	5050		73	19	C	8.1	872	2.84	2.24	3.48		.00	3.58		3.47			--			75	
								33	26	40			41		40							

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. J	DO SAT	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER											MILLIGRAMS PER LITER		
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
	D2	1020.70			SALINAS RECLAMATION CANAL AT AIRPORT WAY															
05/05/70			19.0	69	F	8.6	1050	--	--	--	--	--	--	--	--	--	--	--		
1415	5050		212	21	C													--		
08/25/70	5050		13.2	66	F	8.2	1000	68	41	89	--	.0	198	--	154	--	--	--	342	
1020	5050		141	19	C	8.0	1080	3.39	3.44	3.87		.00	3.25		4.34			--	179	
								31	32	36			30		40					
	D2	1030.30			BLANCO DRAIN AT PUMP LIFT															
05/05/70	5050						102	67	268	--	.0	379	--	163	--	--	--		533	
1555						8.2	2010	5.09	5.56	11.66		.00	6.22		4.60			--	222	
								25	28	58			31		23					
	D2	1060.20			SAN MIGUEL CREEK EAST OF BACKIE ROAD															
03/04/70	5050						30	15	46	7.2	.0	155	23	62	4.3	.20	--	307	138	
0900	5050					7.3	485	1.50	1.23	2.00	.18	.00	2.54	.48	1.75	.07		--	265	10
								31	25	41	4		52	10	36	1				
	D2	1065.20			VIERRA CREEK EAST OF HIGHWAY 1															
03/04/70	5050						25	13	36	6.2	.0	136	19	45	1.6	.20	--	258	116	
0900	5050					7.2	399	1.25	1.07	1.57	.16	.00	2.23	.40	1.27	.03		--	214	5
								31	26	39	4		57	10	32	1				
	D2	1070.20			MORO CANYON CREEK AT HWY 101 + SAN MIGUEL CANYON ROAD															
03/04/70	5050						22	8.0	29	3.0	.0	98	14	35	4.6	.10	--	200	88	
0915	5050					6.8	312	1.10	.66	1.26	.08	.00	1.61	.29	.99	.07		--	165	8
								35	21	41	3		54	10	33	2				
	D2	1185.20			EL TORO CREEK NR SAN BENANCIO BRIDGE															
03/03/70	5050						50	16	71	4.1	.0	154	70	110	2.5	.10	--	453	191	
1300	5050					7.4	718	2.50	1.32	3.09	.10	.00	2.53	1.46	3.10	.04		--	401	65
								36	19	44	1		35	20	43	1				
	D2	1195.20			EL TORO CREEK AT POTTER RANCH															
03/03/70	5050						51	17	61	4.2	.0	157	76	84	1.5	.20	--	429	196	
1345	5050					7.8	669	2.54	1.40	2.65	.11	.00	2.57	1.58	2.37	.02		--	373	69
								38	21	40	2		39	24	36					
	D2	1198.20			WATSON CREEK NR CORRAL DE TIERRA ROAD															
03/03/70	5050						68	21	76	3.2	.0	207	93	110	6.6	.00	--	526	256	
1530	5050					7.9	852	3.39	1.73	3.31	.08	.00	3.39	1.93	3.10	.11		--	481	87
								40	20	39	1		40	23	36	1				
	D2	1208.30			BLANCO DRAIN AT HITCHCOCK ROAD															
10/23/69	5050						4233	152	262	700	5.8	.0	688	1520	--	--	--	--		1457
	5050							7.58	21.54	30.45	.15	.00	11.28	31.62				--		893
								13	36	51										
	D2	1220.00			SALINAS RIVER NR SPRECKELS															
11/05/69								--	--	--	--	--	--	--	23	--	.10	--		213
1330						8.0	509								.65			--		
															13					
	D2	1290.50			CHUALAR CREEK AT OLD STAGE ROAD															
01/20/70	5050							--	--	37	--	.0	118	--	50	--	.20	--		130
1100	5050					7.7	429			1.61		.00	1.94		1.41			--		
										38			45		33					
	D2	1325.10			SALINAS RIVER NR GONZALES															
11/05/69	5050		10.6	57	F	8.2	550	--	--	26	--	.0	182	--	22	--	.10	--		207
1105	5050		101	14	C	8.2	498			1.13		.00	2.98		.62			--		
										23			60		12					
01/07/70	5050		12.2	44	F	8.2	1050	--	--	78	--	.0	169	--	66	--	.30	--		337
1100	5050		98	7	C	8.1	945			3.39		.00	2.77		1.86			--		
										36			29		20					
03/05/70	5050		10.7	53	F	8.0	300	--	--	22	--	.0	123	--	15	--	.10	--		131
1450	5050		98	12	C	7.9	348			.96		.00	2.02		.42			--		
										28			58		12					
04/07/70	5050		10.6	67	F	8.2	1100	99	44	102	4.4	16	236	317	76	5.7	.40	--	762	428
1430	5050		116	19	C	8.7	1180	4.94	3.62	4.44	.11	.53	3.87	6.59	2.14	.09		--	783	208
								38	28	34	1	4	29	50	16	1				
05/05/70								--	--	--	--	--	--	--	65	--	.30	--		373
1315						8.2	1020								1.83			--		
															18					
09/03/70			9.2	74	F	8.2	460	--	--	--	--	--	--	--	--	--	--	--		
1600	5050		109	23	C													--		

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	D.M. J	DO SAT	TEMP		FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F / SIO2	TDS SUM	TH NCH	TURB
	D2	145[illegible].00				ARROYO SECO NR SOLEDAD															
03/05/70	5[illegible]	5.63	10.3	53	F	7.[illegible]	220	--	--	9.0	--	.0	98	--	--	--	--	--			
1315	5[illegible]		95	17	C					.39		.00	1.61					--			
04/08/70	505	3.[illegible]	10.6	52	F	8.[illegible]	380	44	10	16	2.3	10	141	55	6.6	.0	.00	--	205	153	
0830	5[illegible]		97	11	C	8.6	359	2.20	.82	.70	.06	.33	2.31	1.14	.19	.00		--	214	19	
								58	22	19	2	8	58	29	5						
05/05/70	5.5[illegible]	3.56	12.2	64	F	8.4	390	--	--	18	--	.0	162	--	6.3	--	.00	--		166	
1130	5.5[illegible]		126	18	C	8.3	390			.78		.00	2.66		.18			--			
										20			68		5						
07/08/70	5.5[illegible]	3.12	11.2	77	F	8.1	440	--	--	26	--	.0	177	--	13	--	.00	--		203	
1400	5.5[illegible]		139	25	C	8.3	491			1.13		.00	2.90		.37			--			
										23			59		8						
08/03/70	5.5[illegible]	3.01	12.4	74	F	8.0	580	60	15	34	4.0	.0	163	126	15	.7	.00	--	374	213	
1130	5.5[illegible]		148	23	C	8.0	565	2.99	1.23	1.48	.10	.00	2.67	2.62	.42	.01		--	336	78	
								52	21	26	2		47	46	7						
09/03/70								--	--	--	--	--	--	--	22	--	.10	--		256	
1595						7.9	645								.62			--			
															10						
	D2	1475.00				ARROYO SECO NEAR GREENFIELD															
11/05/69	5.5[illegible]		11.1	55	F	7.7	390	--	--	16	--	.0	168	--	8.4	--	.00	--		171	
0930	5.5[illegible]		106	13	C	8.3	392			.70		.00	2.76		.24			--			
										18			70		6						
12/03/69	5.5[illegible]		12.1	5[illegible]	F	8.1	420	47	13	16	2.1	.0	166	55	5.7	.0	.00	--	236	171	
1200	5.5[illegible]		110	1[illegible]	C	8.1	390	2.35	1.07	.70	.05	.00	2.72	1.14	.16	.00		--	222	35	
								56	26	17	1		68	28	4						
	D2	185[illegible].00				SALINAS RIVER NR BRADLEY															
04/08/70	5.50	4.61	11.2	58	F	8.1	800	74	30	59	3.0	14	251	138	47	.6	.20	--	477	310	
1000	5.50		111	14	C	8.7	804	3.69	2.47	2.57	.08	.47	4.12	2.87	1.33	.01		--	491	79	
								42	28	29	1	5	47	33	15						
08/03/70	5.50	5.94	10.7	61	F	8.0	350	43	13	15	2.9	.0	150	53	9.9	.6	.00	--	220	161	
0935	5.50		111	16	C	8.2	410	2.15	1.07	.65	.07	.00	2.46	1.10	.28	.01		--	212	38	
								55	27	16	2		64	29	7						
	D3	1035.50				BIG SANDY CREEK AT INDIAN VALLEY ROAD															
03/05/70	5.50							--	--	130	--	.0	250	--	60	--	.70	--		598	
1525	5.5[illegible]					8.2	1540			5.66		.00	4.10		1.69			--			
										37			27		11						
	D3	1185.50				ESTRELLA RIVER AT RIVER ROAD															
03/05/70	5050							--	--	202	--	12	304	--	178	--	1.00	--		383	
1510	5050					8.5	1470			8.79		.40	4.99		5.02			--			
										60		3	34		34						
	D3	1450.00				SALINAS RIVER AT PASO ROBLES															
04/08/70	5050		9.5	72	F	8.2	900	89	33	68	2.7	27	253	140	76	1.2	0.2		545	357	
1115	5050		110	22	C	8.8	943	4.44	2.71	2.96	.07	.90	4.15	2.91	2.14	.02			562	105	
								43	17	29	1	9	41	29	21						
	D4	1007.60				PACIFIC OCEAN AT CARMEL S.T.P. OUTFALL															
05/05/70			11.6	52	F	8.2	45000	--	--	--	--	--	--	--	--	--	--	--			
1530	5050		127	11	C													--			
	D4	1095.10				CARMEL RIVER AT BERONDA ROAD															
05/05/70								--	--	--	--	--	--	--	26	--	--	--		148	
1410						7.9	391								.73			--			
															19						
	D4	1200.00				CARMEL RIVER AT ROBLES DEL RIO															
04/07/70	5050	3.94	10.5	63	F	7.2	325	29	10	18	2.1	4.0	111	35	16	.0	.00	--	180	114	
1610	5050		106	16	C	8.4	302	1.45	.82	.78	.05	.13	1.82	.73	.45	.00		--	170	16	
								47	26	25	2	4	58	23	14						
	D4	2061.20				JUAN HIGUERA CREEK AT HIGHWAY 1															
01/21/70	5050			63	F	8.0	360	53	10	7.4	--	.0	182	--	8.5	.2	--	--		174	
1130	5050			16	C	8.1	360	2.64	.84	.32		.00	2.98		.24	.00		--		25	
								73	23	9			83		7						
	D4	2100.00				BIG SUR RIVER AT BIG SUR															
01/21/70	5050	4.72		58	F	7.7	180	23	5.7	4.8	--	.0	93	--	3.1	.2	--	--		81	
1015	5050			14	C	7.8	187	1.15	.47	.21		.00	1.53		.09	.00		--		5	
								61	25	11			82		5						
02/26/70	5050			57	F		225	31	5.9	6.9	--	.0	110	--	4.4	.1	--	--		102	
1427	5050			14	C	7.9	226	1.55	.48	.30		.00	1.80		.12	.00		--		12	
								69	21	13			80		5						

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	D.M. #	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F / SIO2	TDS SUM	TH NCH	TURB
	D4	3[illegible]3.50			SALMON CREEK AT HIGHWAY 1															
10/02/69	5.50			59	F		--	--	19	--	7.0	279	--	14	--	.20	--		269	
1030	5.50			15	C	8.4	550				.83			.39			--			
									15		.23	4.58								
											4	83		7						
01/20/70							--	--	--	--	--	--	--	6.8	.5	--	--		118	
1025						251								.19	.01		--			
														8						
	D4	3[illegible]5.50			SODA SPRINGS CREEK AT HIGHWAY 1															
01/20/70				6	F	8.3	360	--	--	--	--	--	--	--	--	--	--			
1045	5.50			16	C												--			
	D4	3[illegible]			REDWOOD GULCH NR JOLON															
01/20/70	5.50			58	F	8.2	290	23	19	7.2	--	.0	158	--	9.7	.1	--	--		139	
1050	5.50			14	C	8.2	284	1.15	1.63	.31		.00	2.59		.27	.00		--		10	
								40	57	11			91		10					
	D4	3 35.30			ALDER CREEK AT HIGHWAY 1															
01/20/70	5.50			59	F	8.1	250	17	18	6.4	--	.0	136	--	8.6	.1	--	--		117	
1120	5.50			15	C	8.1	242	.85	1.49	.28		.00	2.23		.24	.00		--		6	
								35	62	12			92		10					
	D4	3[illegible] .20			WILLOW CREEK AT HIGHWAY 1															
10/02/69				59	F		--	--	--	--	--	--	--	--	--	--	--			
1145	5.50			15	C												--			
01/20/70	5.55			58	F	8.0	190	16	10	6.8	--	.0	96	--	7.6	.1	--	--		83	
1145	5.50			14	C	7.8	187	.80	.85	.30		.00	1.57		.21	.00		--		4	
								43	45	16			84		11					
	D4	3[illegible]63.50			PLASKETT CREEK AT HIGHWAY 1															
10/02/69	5.50			59	F		--	--	25	--	.0	196	--	41	--	.10	--		204	
1205	5.57			15	C	8.3	466			1.09		.00	3.21		1.16		--			
									23				69		25					
01/20/70	5.50			6[illegible]	F	7.8	220	9.6	13	12	--	.0	85	--	16	.2	--	--		80
1200	5.50			16	C	7.7	216	.48	1.12	.52		.00	1.39		.45	.00		--		11
								22	51	24			64		21					
	D4	3[illegible]78.50			WILD CATTLE CREEK AT HIGHWAY 1															
10/02/69	5.50			59	F		--	--	28	--	7.0	204	--	33	--	.10	--		228	
1235	5.50			15	C	8.5	536			1.22		.23	3.35		.93		--			
									23			4	62		17					
01/20/70	5.50			6[illegible]	F	8.0	265	26	9.5	14	--	.0	118	--	18	.2	--	--		104
1235	5.50			16	C	7.9	263	1.30	.78	.61		.00	1.94		.51	.00		--		7
								49	30	23			74		19					
	D4	3[illegible]61.50			MILL CREEK AT HIGHWAY 1															
10/02/69	5.50			6[illegible]	F		--	--	12	--	.0	203	--	11	--	.10	--		199	
1250	5.50			16	C	8.3	397			.52		.00	3.33		.31		--			
									13				84		8					
01/20/70	5.50			6[illegible]	F	8.1	300	38	11	7.9	--	.0	162	--	9.9	.4	--	--		142
1250	5.50			16	C	8.1	302	1.90	.94	.34		.00	2.66		.28	.01		--		9
								63	31	11			88		9					
	D4	31[illegible]5.50			LIMEKILN CREEK AT HIGHWAY 1															
10/02/69	5.50			61	F		--	--	9.0	--	.0	166	--	10	--	.00	--		153	
1320	5.50			16	C	8.2	322			.39		.00	2.72		.28		--			
									12				84		9					
01/20/70	5.50			61	F	8.1	300	46	8.0	5.2	--	.0	171	--	6.9	.3	--	--		148
1510	5.50			16	C	8.0	294	2.30	.66	.23		.00	2.80		.19	.00		--		8
								78	22	8			95		6					
	D4	31[illegible].50			VICENTE CREEK AT HIGHWAY 1															
10/02/69	5.50			61	F		--	--	13	--	5.0	194	--	13	--	.10	--		190	
1350	5.50			16	C	8.5	388			.57		.17	3.18		.37		--			
									15			4	82		10					
01/20/70	5.50							28	9.7	9.0	--	.0	121	--	12	.3	--	--		110
1425						7.9	258	1.40	.80	.39		.00	1.98		.34	.00		--		11
								54	31	15			77		13					

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. #	DO SAT	TEMP		FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
	D4	3240.50				DOLAN CANYON AT HIGHWAY 1															
01/20/70	5050			61	F	8.1	400	49	12	9.0	--	.0	185	--	14	.8	--	--		175	
1510	5050			16	C	8.1	396	2.45	1.04	.39		.00	3.03		.39	.01		--		23	
								62	26	10			77		10						
	D4	3260.50				LIME CREEK AT HIGHWAY 1															
01/20/70	5050			61	F	8.2	415	58	12	9.5	--	.0	212	--	14	.4	--	--		194	
1525	5050			16	C	8.1	433	2.89	.99	.41		.00	3.48		.39	.01		--		20	
								67	23	9			80		9						
	D4	3280.50				HOT SPRINGS CANYON AT HIGHWAY 1															
01/20/70				61	F	8.1	300	--	--	--	--	--	--	--	--	--	--	--			
1550	5050			16	C													--			
	D4	3300.30				BUCK CREEK AT HIGHWAY 1															
01/20/70	5050			60	F	8.1	355	48	12	8.0	--	.0	185	--	13	.5	--	--		171	
1610	5050			16	C	8.2	360	2.40	1.02	.35		.00	3.03		.37	.01		--		20	
								67	28	10			84		10						
	D4	3310.30				ANDERSON CANYON AT HIGHWAY 1															
01/20/70	5050			61	F	8.0	310	45	9.6	5.4	--	.0	176	--	8.0	.3	--	--		152	
1625	5050			16	C	8.1	306	2.25	.79	.23		.00	2.89		.23	.00		--		8	
								74	26	8			94		8						
	D4	3320.30				MCWAY CANYON AT HIGHWAY 1															
10/02/69	5050			63	F			--	--	10	--	.0	185	--	11	--	.10	--		166	
1530	5050			17	C	8.3	336			.44		.00	3.03		.31			--			
										13			90		9						
01/20/70	5050			60	F	8.0	295	42	9.5	6.8	--	.0	165	--	8.8	.3	--	--		144	
1640	5050			16	C	8.1	298	2.10	.78	.30		.00	2.71		.25	.00		--		9	
								70	26	10			91		8						
	D4	3335.50				TORRE CANYON AT HIGHWAY 1															
01/20/70	5050			60	F	7.9	300	40	15	6.8	--	.0	180	--	9.1	.4	--	--		163	
1720	5050			16	C	8.0	331	2.00	1.26	.30		.00	2.95		.26	.01		--		16	
								60	38	9			89		8						
	D4	3340.30				LAFLER CANYON AT HIGHWAY 1															
01/21/70								--	--	--	--	--	--	--	10	1.0	--	--		169	
0900						8.2	362								.28	.02		--			
															8	1					
	D4	3345.30				GRIMES CANYON AT HIGHWAY 1															
01/21/70	5050			60	F	8.2	400	52	--	7.1	--	.0	181	--	--	--	--	--			
0910	5050			16	C			2.59		.31		.00	2.97					--			
	D4	3350.50				CASTRO CANYON AT HIGHWAY 1															
01/21/70	5050			59	F	8.1	400	61	9.9	7.8	--	.0	210	--	11	.4	--	--		193	
0920	5050			15	C	8.1	397	3.04	.81	.34		.00	3.44		.31	.01		--		21	
								77	20	9			87		8						
	D4	3610.20				LITTLE SUR RIVER AT HIGHWAY 1															
10/03/69	5050			58	F			--	--	15	--	5.0	178	--	16	--	.10	--		175	
1030	5050			14	C	8.4	372			.65		.17	2.92		.45			--			
										17		5	78		12						
01/21/70	5050			60	F	7.8	195	17	10	6.8	--	.0	101	--	7.1	.2	--	--		84	
1155	5050			16	C	7.7	199	.85	.83	.30		.00	1.66		.20	.00		--		1	
								43	42	15			83		10						
	D4	3613.30				LITTLE SUR RIVER, SOUTH FORK AT OLD COAST ROAD															
02/26/70	5050							45	6.3	8.2	.9	.0	168	12	6.7	.0	.00	--	162	136	
1518	5050					8.1	296	2.25	.52	.36	.02	.00	2.76	.25	.19	.00		--	163	1	
								71	17	11	1		86	8	6						
	D4	3614.30				LITTLE SUR RIVER, ABOVE SOUTH FORK															
02/26/70	5050			57	F		200	22	5.4	9.2	1.3	.0	96	7.7	5.9	.0	.00	--	118	77	
1518	5050			14	C	7.8	192	1.10	.44	.40	.03	.00	1.57	.16	.17	.00		--	100	2	
								56	22	20	2		83	8	9						
	D4	3635.50				ROCKY CREEK AT HIGHWAY 1															
10/03/69	5050			59	F			--	--	26	--	.0	141	--	37	--	.10	--		130	
1120	5050			15	C	8.3	369			1.13		.00	2.31		1.04			--			
										31			63		28						
01/21/70	5050			60	F	7.8	200	16	7.3	14	--	.0	87	--	17	.7	--	--		70	
1230	5050			16	C	7.5	207	.80	.60	.61		.00	1.43		.48	.01		--		2	
								39	29	29			69		23						

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H.	DO SAT	TEMP		FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	MILLIGRAMS PER LITER: TDS SUM	TH NCH	TURB
	D4	3640.50				PALO COLORADO CANYON AT PALO COLORADO ROAD																
01/21/70	5050			59	F	8.1	420	34	17	28	--	.0	176	--	40	.4	--	--			157	
1255	5050			15	C	7.8	426	1.70	1.44	1.22		.00	2.89		1.13	.01		--			13	
								40	34	29			68		27							
	D4	3645.50				GARRAPATA CREEK AT HIGHWAY 1																
10/03/69				59	F			--	--	--	--	--	--	--	--	--	--	--				
1145	5050			15	C													--				
01/21/70	5050			60	F	7.7	195	12	8.0	16	--	.0	78	--	19	.6	--	--			63	
1310	5050			16	C	7.5	192	.60	.66	.70		.00	1.28		.54	.01		--			1	
								31	34	36			67		28	1						
	D4	3700.50				GRANITE CREEK AT HIGHWAY 1																
10/03/69	5050			59	F			--	--	37	--	.0	106	--	50	--	.10	--			92	
1200	5050			15	C	8.1	365			1.61		.00	1.74		1.41			--				
										44			48		39							
01/21/70	5050			60	F	7.6	240	9.0	8.4	23	--	.0	67	--	30	3.4	--	--			57	
1320	5050			16	C	7.5	228	.45	.69	1.00		.00	1.10		.85	.05		--			2	
								20	30	44			48		37	2						
	D4	3743.50				SOBERANES CREEK AT HIGHWAY 1																
01/21/70	5050			60	F	7.6	310	17	8.9	29	--	.0	88	--	41	3.8	--	--			79	
1330	5050			16	C	7.4	302	.85	.73	1.26		.00	1.44		1.16	.06		--			7	
								28	24	42			48		38	2						
	D4	3746.50				MALPASO CREEK AT HIGHWAY 1																
01/21/70	5050			60	F	7.4	285	14	6.6	31	1.8	.0	53	18	--	--	--	--			62	
1345	5050			16	C			.70	.54	1.35	.05	.00	.87	.37				--			19	
								27	20	51	2											
	D4	3750.15				WILDCAT CREEK AT END OF PETER PAN ROAD																
01/21/70	5050			59	F	7.3	310	8.5	7.5	39	1.8	.0	37	10	64	11	.20	--		195	52	
1415	5050			16	C	7.0	305	.42	.62	1.70	.05	.00	.61	.21	1.80	.18		--		161	22	
								15	22	61	2		22	8	64	6						
	D4	3770.50				CARMEL HIGHLANDS CREEK AT HIGHWAY 1																
01/21/70	5050			59	F	7.3	430	11	11	61	3.2	.0	48	19	100	5.9	.20	--		294	74	
1445	5050			15	C	7.1	452	.55	.90	2.65	.08	.00	.79	.40	2.82	.09		--		235	33	
								13	22	63	2		19	10	69	2						
	D4	3800.50				SAN JOSE CREEK AT HIGHWAY 1																
01/21/70	5050			60	F	7.3	245	14	6.6	24	--	.0	58	--	34	2.0	--	--			62	
1630	5050			16	C	7.0	241	.70	.54	1.04		.00	.95		.96	.03		--			15	
								29	22	43			39		40	1						
05/05/70								--	--	--	--	--	--	--	31	--	--	--			89	
1445						7.6	270								.87			--				
															32							
	D4	4100.00				RAT CREEK NR LUCIA																
01/20/70				68	F	7.9	340	--	--	--	--	--	--	--	--	--	--	--				
1500	5050			20	C													--				

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAT	S.M. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
EC B 735.0 215.0 SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)																				
11/18/69	5050						--	--	--	--	--	--	--	15400	--	--	--			
1205	5050					39800								434.28			--			
														125						
12/09/69	5050						--	--	--	--	--	--	--	15200	--	--	--			
1300	5050					39800								428.64			--			
														124						
12/15/69	5050		8.2	56 F	8.1	45000	--	--	--	--	--	--	--	15600	--	--	--	28600		8E
1510	5050		94	13 C		38700								439.92			--			
														131						
12/23/69	5050						--	--	--	--	--	--	--	15600	--	--	--			
1220	5050					39600								439.92			--			
														128						
12/29/69	5050						--	--	--	--	--	--	--	11900	--	--	--			
0600	5050					33600								335.58			--			
														115						
02/25/70	5050		9.2	56.5F	8.0	26500	--	--	--	--	--	--	--	8680	--	--	--	16500		35E
1000	5050		98	13.6C		23800								244.78			--			
														118						
03/24/70	5050		8.4	59 F	8.1	25200	--	--	--	--	--	--	--	9550	--	--	--	16900		39E
0910	5050		94	15 C		26600								269.31			--			
														116						
05/28/70	5050		8.9	66 F	8.0	37600	--	--	--	--	--	--	--	15100	--	--	--	29100		30E
1440	5050		88	19 C		37700								425.82			--			
														130						
07/22/70	5050		6.4	69 F	8.2	52800	--	--	--	--	--	--	--	17600	--	--	--	30700		25E
0900	5050		88	21 C		44100								496.32			--			
														129						
EC B 736.2 211.6 SAN FRANCISCO BAY AT SAN MATEO BRIDGE																				
06/22/70	5050		8.4	67.0F	8.4	39000	--	--	--	--	--	--	--	16100	--	--	--	28600		4E
0945	5050		111	19.4C		41000								454.02			--			
														111						
08/11/70	5050		7.1	69 F	8.4	43000	--	--	--	--	--	--	--	77300	--	--	--	32500		2E
1045	5050		471	21 C		44300								179.86			--			
														41						
09/17/70	5050		7.1	67 F	8.2	45000	--	--	--	--	--	--	--	18000	--	--	--	32700		7E
0700	5050		96	19 C		43800								507.60			--			
														116						
EC B 745.1 222.4 SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND																				
12/15/69	5050		8.4	57 F	8.0	48000	--	--	--	--	--	--	--	17000	--	--	--	31600		7E
1630	5050		99	14 C		41800								479.40			--			
														132						
02/25/70	5050		9.0	55 F	8.2	32000	--	--	--	--	--	--	--	10500	--	--	--	19900		35E
1140	5050		95	13 C		28600								296.10			--			
														119						
03/24/70	5050		7.9	56 F	8.1	34500	--	--	--	--	--	--	--	13200	--	--	--	26000		14E
1045	5050		88	13 C		35000								372.24			--			
														122						
05/28/70	5050		7.3	61 F	8.0	40800	--	--	--	--	--	--	--	15900	--	--	--	32300		5E
1535	5050		90	16 C		41400								448.38			--			
														125						
06/22/70	5050		6.9	61 F	8.0	44000	--	--	--	--	--	--	--	17000	--	--	--	30700		20E
1200	5050		87	16 C		43100								479.40			--			
														128						
07/22/70	5050		6.9	66 F	8.2	57600	--	--	--	--	--	--	--	18000	--	--	--	32000		5E
1030	5050		91	19 C		45300								507.60			--			
														129						
08/11/70	5050		7.5	65 F	8.3	44000	--	--	--	--	--	--	--	17000	--	--	--	32000		3E
1150	5050		98	18 C		44600								479.40			--			
														124						
09/17/70	5050		7.1	63 F	7.7		--	--	--	--	--	--	--	16500	--	--	--	30000		5E
0900	5050		90	17 C		40500								465.30			--			
														132						
EC B 757.7 226.2 SAN PABLO STRAIT WEST OF THE BROTHERS																				
02/25/70	5050		9.2	56.5F	8.0	26500	--	--	--	--	--	--	--	5500	--	--	--	10400		30E
1315	5050		95	13.6C		16300								155.10			--			
														109						
03/24/70	5050		8.4	56 F	8.0	26700	--	--	--	--	--	--	--	9900	--	--	--	19000		14E
1145	5050		90	13 C		26700								279.18			--			
														120						
05/28/70	5050		8.9	61 F	8.1	36800	--	--	--	--	--	--	--	14600	--	--	--	29100		10E
1735	5050		108	16 C		37500								411.72			--			
														126						
06/22/70	5050		7.4	63 F	8.1	40000	--	--	--	--	--	--	--	15500	--	--	--	28000		25E
1300	5050		93	17 C		39700								437.10			--			
														127						

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	S.M. DEPTH	DO SAT	TEMP		FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
								MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER					MILLIGRAMS PER LITER		
														MILLIEQUIVALENTS PER LITER							
														PERCENT REACTANCE VALUE							
EO B 757.7 226.2						SAN PABLO STRAIT WEST OF THE BROTHERS															
														CONTINUED							
07/22/70	5050		7.4	65	F	8.2	49600	--	--	--	--	--	--	--	15200	--	--	--	26300		25E
1130	5050		94	14	C		38300								428.64			--			
															129						
08/11/70	5050		7.3	67	F	8.2	40000	--	--	--	--	--	--	--	15200	--	--	--	26000		4E
1320	5050		95	19	C		39500								428.64			--			
															125						
09/17/70	5050		7.6	64	F	8.0		--	--	--	--	--	--	--	14200	--	--	--	25700		7E
1015	5050		94	18	C		35600								400.44			--			
															129						
EO B 862.3 207.1						SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ															
10/21/69	5001		8.0	63	F	7.7		--	--	--	--	--	--	--	6600	.9	--	--	13700		32A
1325	5006	3	90	17	C		21000								186.12	.01		8.0			
															89						
11/20/69	5001		8.6	57	F	7.6		--	--	--	--	--	--	--	7000	.9	--	--			45A
1120	5006	3	91	14	C		20700								197.40	.01		9.0			
															95						
02/11/70	5001		10.1	52	F	7.4		--	--	--	--	--	--	--	150	1.3	--	--	392		110A
0810	5006	3	91	11	C		760								4.23	.02		17.0			
															56						
03/16/70	5001		10.1	57	F	7.4		13	12	90	5.0	.0	69	38	140	1.4	.30	--	401	82	40A
1035	5006	3	98	14	C		656	.65	.99	3.92	.13	.00	1.13	.79	3.95	.02		16.0	350	26	
								11	17	69	2		19	13	67						
04/16/70	5001		9.5	57	F	7.9		--	--	--	--	--	--	--	5550	1.3	--	--	11300		24A
1215	5006	3	99	14	C		17700								156.51	.02		11.0			
															88						
05/18/70	5001		8.9	64	F	7.9		--	--	--	--	--	--	--	3800	1.3	--	--	19800		17A
1450	5006	3	105	18	C		25100								248.16	.02		6.0			
															99						
06/15/70	5001		9.4	68	F	7.8		178	520	4000	168	.0	101	1060	7220	.2	2.60	--	14500	2586	7.2A
1420	5006	3	113	23	C		29600	8.88	42.74	174.00	4.30	.00	1.66	22.05	203.60	.00		--	13199	2500	
								4	19	76	2		1	10	90						
07/15/70	5001		9.0	66	F	7.7		--	--	--	--	--	--	--	9500	.6	--	--	18600		14A
1455	5006	3	109	19	C		27000								267.90	.01		--			
															99						
08/13/70	5001		8.8	72	F	7.8		--	--	--	--	--	--	--	9000	.4	--	--	18100		19A
1425	5006	3	110	21	C		25700								253.80	.01		--			
															99						
09/09/70	5001		9.5	68	F	7.7		145	420	3450	150	.0	99	820	6250	.2	1.90	--	12800	2092	14A
1230	5006	3	113	23	C		17900	7.24	34.52	150.08	3.84	.00	1.62	17.06	176.25	.00		--	11287	2009	
								4	18	77	2		1	9	90						
EO B 862.5 208.1						SUISUN BAY AT BENICIA (MIDDLE OF PIER)															
11/06/69	5050							--	--	--	--	--	--	--	5420	--	--	--			
1540	5050						16300								152.84			--			
															94						
12/04/69	5050							--	--	--	--	--	--	--	5230	--	--	--			
1640	5050						15600								147.49			--			
															95						
12/18/69	5050			53.5F				--	--	--	--	--	--	--	5770	--	--	--			
1335	5050			11.9C			17000								162.71			--			
															96						
01/08/70	5050							--	--	--	--	--	--	--	7340	--	--	--			
1515	5050						20800								206.99			--			
															100						
EO B 802.8 155.0						SACRAMENTO RIVER AT CHIPPS ISLAND															
10/21/69	5001		9.0	63	F	7.5		--	--	--	--	--	--	--	196	.9	--	--	492		26A
1610	5006	3	94	17	C		940								5.53	.01		13.0			
															59						
11/20/69	5001		9.1	57	F	7.5		--	--	--	--	--	--	--	355	.4	--	--	790		45A
1350	5006	3	89	14	C		1010								10.01	.01		15.0			
															99						
02/12/70	5001		10.5	52	F	7.2		--	--	--	--	--	--	--	5.0	1.3	--	--	108		100A
0840	5006	3	95	11	C		160								.14	.02		18.0			
															9	1					
03/16/70	5001		10.2	57	F	7.3		12	6.4	17	1.4	.0	70	21	14	1.3	.20	--	132	56	38A
1200	5006	3	99	14	C		200	.60	.53	.74	.04	.00	1.15	.44	.39	.02		16.0	124	1	
								31	28	39	2		58	22	20	1					
04/16/70	5001		9.5	57	F	7.7		--	--	--	--	--	--	--	570	1.5	--	--	1210		65A
1310	5006	3	93	14	C		2120								16.07	.02		17.0			
															76						
05/18/70	5001		8.8	66	F	7.8		--	--	--	--	--	--	--	1640	.9	--	--	3180		40A
1550	5006	3	97	19	C		5400								46.25	.01		13.0			
															86						
06/15/70	5001		9.6	68	F	7.8		57	110	880	41	.0	89	232	1540	--	.40	--	3200	595	35A
1530	5006	3	108	23	C		5150	2.84	9.04	38.28	1.05	.00	1.46	4.83	43.43			7.0	2912	521	
								6	18	75	2		3	9	84						

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	S.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
							MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER			
EC B 802.8 155.0							SACRAMENTO RIVER AT CHIPPS ISLAND													
																				CONTINUED
07/15/70	5001		9.6	68	F 8.0		--	--	--	--	--	--	--	2900	.3	--	--	6030		45A
1550	5006	3	110	20	C	9600								81.78	.00		4.0			
														85						
08/13/70	5001		9.8	72	F 7.8		--	--	--	--	--	--	--	3060	.3	--	--	6020		80A
1520	5006	3	117	22	C	9160								86.29	.00		3.0			
														94						
09/09/70	5001		9.1	68	F 7.4		23	39	295	14	.0	82	72	520	.2	--	--	1110	218	50A
1335	5006	3	100	20	C	2040	1.15	3.21	12.83	.36	.00	1.34	1.50	14.66	.00		13.0	1017	151	
							7	18	73	2		8	9	84						
EC B 803.2 204.8							SUISUN BAY ABOVE AVON PIER													
10/21/69	5001		7.8	63	F 7.7		--	--	--	--	--	--	--	--	--	--	--			40A
1355	5006	3	88	17	C	19500											--			
11/20/69	5001		8.4	57	F 7.6		--	--	--	--	--	--	--	--	--	--	--			40A
1155	5006	3	88	14	C	17500											--			
02/11/70	5001		10.2	52	F 7.3		--	--	--	--	--	--	--	--	--	--	--			110A
0840	5006	3	93	11	C	190											--			
03/16/70	5001		10.2	57	F 7.4		--	--	--	--	--	--	--	21	1.8	--	--	146		38A
1105	5006	3	99	14	C	220								.59	.03		16.0			
														27	1					
04/15/70	5001		9.4	57	F 7.6		--	--	--	--	--	--	--	--	--	--	--			
1010	5006	3	96	14	C	12400											--			
05/20/70	5001		8.6		7.9		--	--	--	--	--	--	--	--	--	--	--			20A
1645	5006	3				18800											--			
06/17/70	5001		9.0	56	F 8.2		--	--	--	--	--	--	--	6860	--	--	--	14100		21A
1530	5006	3	106	19	C	19800								193.45			1.0			
														98						
07/16/70	5001		8.8	66	F 7.8		--	--	--	--	--	--	--	--	--	--	--			26A
1550	5006	3	105	19	C	23300											--			
08/14/70	5001		9.0	70	F 7.9		--	--	--	--	--	--	--	--	--	--	--			50A
1440	5006	3	111	21	C	22200											--			
09/11/70	5001		8.8	68	F 7.7		--	--	--	--	--	--	--	5040	1.8	--	--	10700		65A
1325	5006	3	103	20	C	15100								142.13	.03		3.0			
														94						
EC B 803.4 202.3							SUISUN BAY AT PORT CHICAGO													
11/06/69	5050						--	--	--	--	--	--	--	4650	--	--	--			
1455	5050					14100								131.13			--			
														93						
11/20/69	5050						--	--	--	--	--	--	--	4270	--	--	--			
1155	5050					13100								120.41			--			
														92						
12/04/69	5050						--	--	--	--	--	--	--	4300	--	--	--			
1550	5050					12900								121.26			--			
														94						
12/18/69	5050						--	--	--	--	--	--	--	4540	--	--	--			
1240	5050					13500								128.03			--			
														95						
01/08/70	5050						--	--	--	--	--	--	--	949	--	--	--			
1245	5050					3250								26.76			--			
														82						
EC B 803.4 215.6							SAN PABLO BAY AT POINT DAVIS													
11/07/69	5050						--	--	--	--	--	--	--	8340	--	--	--			
0840	5050					23700								235.19			--			
														99						
11/20/69	5050						--	--	--	--	--	--	--	9390	--	--	--			
1500	5050					26200								264.80			--			
														101						
12/05/69	5050						--	--	--	--	--	--	--	10500	--	--	--			
0850	5050					28800								296.10			--			
														103						
12/18/69	5050						--	--	--	--	--	--	--	9200	--	--	--			
1410	5050					25500								259.44			--			
														102						
01/08/70	5050						--	--	--	--	--	--	--	7640	--	--	--			
1610	5050					21400								215.45			--			
														101						

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. DEPTH	DO SAT	TEMP	FIELD PH	LABORATORY EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F / SIO2	TDS SUM	TH NCH	TURB
EC B 803.6 154.3 SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS																				
10/21/69	5001		8.4	63	F	7.5	--	--	--	--	--	--	--	--	--	--	--			35A
1500	5006	3	90	17	C	7000											--			
11/20/69	5001		9.4	57	F	7.6	--	--	--	--	--	--	--	--	--	--	--			50A
1305	5006	3	93	14	C	3150											--			
02/11/70	5001		10.3	52	F	7.1	--	--	--	--	--	--	--	--	--	--	--			90A
0915	5006	3	94	11	C	170											--			
03/19/70	5001		10.5	55	F	7.6	--	--	--	--	--	--	--	105	1.8	--	--	309		50A
1400	5006	3	100	13	C	500								2.96	.03		17.0			
														59	1					
04/15/70	5001		10.3	57	F	7.6	--	--	--	--	--	--	--	--	--	--	--			
1055	5006	3	102	14	C	3600											--			
05/20/70	5001		9.6	64	F	7.9	--	--	--	--	--	--	--	--	--	--	--			19A
1720	5006	3	105	18	C	7840											--			
06/17/70	5001		10.3	66	F	8.1	--	--	--	--	--	--	--	3010	--	--	--	6260		39A
1610	5006	3	116	19	C	9720								84.88			3.0			
														87						
07/16/70	5001			68	F	8.0	--	--	--	--	--	--	--	--	--	--	--			35A
1630	5006	3		20	C	12800											--			
08/14/70	5001		10.3	72	F	7.8	--	--	--	--	--	--	--	--	--	--	--			95A
1515	5006	3	124	22	C	12100											--			
09/11/70	5001		9.3	72	F	7.8	--	--	--	--	--	--	--	1600	.9	--	--	3280		55A
1420	5006	3	107	21	C	5750								45.12	.01		9.0			
														78						
EC B 804.0 203.0 SUISUN BAY NEAR PRESTON POINT																				
10/21/69	5001		8.2	63	F	7.5	--	--	--	--	--	--	--	--	--	--	--			40A
1415	5006	3	89	17	C	11000											--			
11/20/69	5001		8.9	57	F	7.6	--	--	--	--	--	--	--	--	--	--	--			45A
1220	5006	3	90	14	C	9610											--			
02/11/70	5001		10.5	52	F	7.2	--	--	--	--	--	--	--	--	--	--	--			100A
0855	5006	3	95	11	C	170											--			
03/16/70	5001		10.4	57	F	7.3	--	--	--	--	--	--	--	18	1.8	--	--	137		36A
1120	5006	3	101	14	C	215								.51	.03		16.0			
														24	1					
04/15/70	5001		10.1	57	F	7.6	--	--	--	--	--	--	--	--	--	--	--			
1030	5006	3	101	14	C	6800											--			
05/20/70	5001		9.9	64	F	8.0	--	--	--	--	--	--	--	--	--	--	--			22A
1655	5006	3	112	18	C	15700											--			
06/17/70	5001		9.3	66	F	8.3	--	--	--	--	--	--	--	5610	--	--	--	11300		30A
1545	5006	3	108	19	C	16400								158.20			1.0			
														96						
07/16/70	5001		9.6	68	F	7.9	--	--	--	--	--	--	--	--	--	--	--			38A
1605	5006	3	114	20	C	18300											--			
08/14/70	5001		9.2	70	F	8.0	--	--	--	--	--	--	--	--	--	--	--			60A
1455	5006	3	112	21	C	20200											--			
09/11/70	5001		9.2	70	F	7.9	--	--	--	--	--	--	--	3850	1.3	--	--	8470		50A
1350	5006	3	109	21	C	11800								108.57	.02		2.0			
														92						
EC B 804.4 156.2 HONKER BAY NEAR WHEELER POINT																				
10/21/69	5001		8.5	64	F	7.5	--	--	--	--	--	--	--	--	--	--	--			36A
1530	5006	3	91	18	C	1000											--			
11/21/69	5001		9.0	55	F	7.3	--	--	--	--	--	--	--	--	--	--	--			50A
1120	5006	3	86	13	C	1000											--			
02/11/70	5001			52	F	7.3	--	--	--	--	--	--	--	--	--	--	--			100A
0940	5006	3		11	C	170											--			
03/19/70	5001		10.7	55	F	7.5	--	--	--	--	--	--	--	12	1.8	--	--	122		60A
1435	5006	3	102	13	C	220								.34	.03		16.0			
														15	1					

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
							MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
EQ B 804.4 156.2 HONKER BAY NEAR WHEELER POINT CONTINUED																				
04/15/70	5001		10.1	57 F	7.6		--	--	--	--	--	--	--	--	--	--	--			
1115	5006	3	99	14 C		1800											--			
05/20/70	5001		8.9	64 F	7.8		--	--	--	--	--	--	--	--	--	--	--			39A
1740	5006	3	96	18 C		3900											--			
06/17/70	5001		9.6	68 F	8.0		--	--	--	--	--	--	--	2300	--	--	--	4780		64A
1630	5006	3	109	22 C		7800								64.86			5.0			
														83						
07/16/70	5001		9.4	68 F	8.1		--	--	--	--	--	--	--	--	--	--	--			55A
1645	5006	3	108	22 C		10700											--			
08/14/70	5001		9.4	72 F	7.9		--	--	--	--	--	--	--	--	--	--	--			180A
1540	5006	3	113	22 C		10400											--			
09/11/70	5001		8.9	70 F	7.4		--	--	--	--	--	--	--	870	.9	--	--	1820		65A
1450	5006	3	102	21 C		3050								24.53	.01		12.0			
														80						
EQ B 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH																				
10/21/69	5001		8.1	63 F	7.5		--	--	--	--	--	--	--	1300	.9	--	--	2650		65A
1215	5006	3	86	17 C		5000								36.66	.01		12.0			
														73						
11/21/69	5001		9.1	55 F	7.4		--	--	--	--	--	--	--	1200	.9	--	--	2440		70A
1020	5006	3	88	13 C		4000								33.84	.01		15.0			
														85						
02/11/70	5001		10.5	52 F	7.9		--	--	--	--	--	--	--	17	.9	--	--	145		120A
0730	5006	3	95	11 C		200								.48	.01		18.0			
														24	1					
03/16/70	5001		10.3	57 F	7.3		14	7.6	12	1.4	.0	64	23	13	1.2	.20	--	126	67	65A
0940	5006	3	100	14 C		190	.70	.62	.52	.04	.00	1.05	.48	.37	.02		16.0	120	14	
							37	33	28	2		55	25	19	1					
04/16/70	5001		10.0	57 F	7.7		--	--	--	--	--	--	--	1670	1.8	--	--	3360		50A
1130	5006	3	99	14 C		5420								47.09	.03		16.0			
														87						
05/18/70	5001		8.6	64 F	7.7		--	--	--	--	--	--	--	4100	1.3	--	--	7960		34A
1350	5006	3	96	18 C		12500								115.62	.02		10.0			
														92						
06/15/70	5001		10.5	68 F	7.9		90	240	1900	85	.0	92	485	3350	--	.60	--	6620	1213	21A
1335	5006	3	121	20 C		10500	4.49	19.73	82.65	2.18	.00	1.51	10.09	94.47			2.0	6199	1136	
							4	18	76	2		1	10	90						
07/15/70	5001		9.3	66 F	8.3		--	--	--	--	--	--	--	5900	4.0	--	--	11700		70A
1420	5006	2	108	19 C		17500								166.38	.06		--			
														95						
08/13/70	5001		9.8	72 F	8.0		--	--	--	--	--	--	--	5400	.5	--	--	10900		70A
1340	5006	3	120	22 C		16200								152.28	.01		--			
														94						
09/09/70	5001		9.1	68 F	7.9		60	150	1200	47	.0	87	310	2180	.1	.50	--	4440	767	60A
1140	5006	3	103	20 C		7080	2.99	12.33	52.20	1.20	.00	1.43	6.45	61.48	.00		3.0	3994	695	
							4	18	76	2		2	9	89						
EQ S 809.2 205.3 CORDELIA SLOUGH AT CYGNUS																				
10/02/69	5001		7.7	66.2F	7.5		--	--	--	--	--	--	--	--	--	--	--			80A
0930	5006	3	84	19.0C		1600											--			
11/06/69	5001		7.6	64.4F	7.4		50	102	840	36	.0	81	210	1500	1.3	--	--	2940	545	90A
1100	5006	3	82	18.0C		4680	2.50	8.38	36.54	.92	.00	1.33	4.37	42.30	.02		11.0	2791	478	
							5	17	76	2		3	9	88						
12/04/69	5001		8.3	51.8F	7.2		--	--	--	--	--	--	--	--	--	--	--			60A
1030	5006	3	77	11.0C		5760											--			
01/02/70	5001		8.4	46.4F	7.3		--	--	--	--	--	--	--	--	--	--	--			70A
0845	5006	3	71	8.0C		1360											--			
02/02/70	5001		8.7	51.8F	7.1		16	16	89	6.2	.0	84	38	135	6.6	.90	--	533	106	1300A
1035	5006	3	79	11.0C		590	.80	1.32	3.87	.16	.00	1.38	.79	3.81	.11		20.0	370	37	
							13	21	63	3		23	13	63	2					
03/05/70	5001		7.2	51.8F	7.1		--	--	--	--	--	--	--	--	--	--	--			180A
1035	5006	3	66	11.0C		1020											--			
04/01/70	5001		10.5	59.0F	7.4		--	--	--	--	--	--	--	--	--	--	--			140A
1020	5006	3	105	15.0C		900											--			

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	SAM. DEPTH	DO SAT	TEMP	FIELD PH	LABORATORY EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TH NCH	TURB
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER					
EO S 809.2 205.3 CORDELIA SLOUGH AT CYGNUS																					
																					CONTINUED
05/15/70	5001		9.2	66.2F	7.5		60	130	960	42	.0	94	275	1790	1.8	.60	--		3660	685	34A
1130	5006	3	102	19.0C		5580	2.99	10.69	41.76	1.08	.00	1.54	5.72	50.48	.03		12.0		3318	607	
							5	19	74	2		3	10	87							
06/12/70	5001		8.6	68.0F	7.7		--	--	--	--	--	--	--	--	--	--	--				29A
1005	5006	3	99	20.0C		10400											--				
07/13/70	5001		9.0	71.6F	7.6		--	--	--	--	--	--	--	--	--	--	--				50A
1200	5006	3	108	22.0C		11600											--				
08/10/70	5001		7.5	73.4F	7.6		120	300	2400	100	.0	106	920	4300	.9	1.10	--		9800	1535	45A
1010	5006	3	92	23.0C		13500	5.99	24.66	104.40	2.56	.00	1.74	12.90	121.26	.01		--		7895	1447	
							4	18	76	2		1	9	89							
09/08/70	5001		8.1	69.8F	7.6		--	--	--	--	--	--	--	--	--	--	--				65A
1000	5006	3	95	21.0C		9320											--				
EO S 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JUICE ISLAND																					
10/02/69	5001		7.6	69.8F	7.4		--	--	--	--	--	--	--	--	--	--	--				75A
1355	5006	3	87	21.0C		2270											--				
11/06/69	5001		6.8	60.8F	7.1		40	77	600	29	.0	92	180	1050	1.3	.20	--		2150	417	85A
1124	5006	3	70	16.0C		3150	2.00	6.33	26.10	.74	.00	1.51	3.74	29.61	.02		8.0		2032	341	
							6	18	74	2		4	11	85							
12/04/69	5001		6.7	53.6F	7.1		--	--	--	--	--	--	--	--	--	--	--				65A
1420	5006	3	63	12.0C		3730											--				
01/02/70	5001		7.7	51.8F	7.2		--	--	--	--	--	--	--	--	--	--	--				70A
1130	5006	3	70	11.0C		620											--				
02/02/70	5001		7.2	51.8F	7.0		22	21	123	8.2	.0	110	54	188	6.6	.90	--		657	142	200A
1430	5006	2	66	11.0C		780	1.10	1.73	5.35	.21	.00	1.80	1.12	5.30	.11		16.0		495	52	
							13	21	64	3		22	13	64	1						
03/20/70	5001		7.1	59.0F	7.2		--	--	--	--	--	--	--	--	--	--	--				100A
1040	5006	2	71	15.0C		1800											--				
04/01/70	5001		8.2	59.0F	7.2		--	--	--	--	--	--	--	--	--	--	--				170A
1340	5006	2	82	15.0C		1500											--				
05/15/70	5001		9.1	68.0F	7.6		60	120	840	39	.0	122	273	1480	2.7	1.60	--		3160	644	70A
1530	5006	1	103	20.0C		4880	2.99	9.86	36.54	1.00	.00	2.00	5.68	41.74	.04		10.0		2887	543	
							6	20	73	2		4	11	84							
06/12/70	5001		9.1	73.4F	7.8		--	--	--	--	--	--	--	--	--	--	--				50A
1400	5006	2	110	23.0C		7590											--				
07/13/70	5001		10.6	75.2F	7.8		--	--	--	--	--	--	--	--	--	--	--				34A
1540	5006	2	131	24.0C		9590											--				
08/10/70	5001		8.7	77.0F	7.9		110	280	2400	98	.0	130	510	4200	.4	1.20	--		8330	1427	60A
1400	5006	2	111	25.0C		12800	5.49	23.02	104.40	2.51	.00	2.13	10.61	118.44	.01		--		7665	1320	
							4	17	77	2		2	8	90							
09/08/70	5001		9.6	73.4F	7.9		--	--	--	--	--	--	--	--	--	--	--				35A
1455	5006	3	118	23.0C		10900											--				
EO S 811.0 204.8 CHADBOURNE SLOUGH AT CHADBOURNE ROAD																					
10/02/69	5001		7.5	68.0F	7.5		--	--	--	--	--	--	--	--	--	--	--				90A
1135	5006	3	84	20.0C		1890											--				
11/06/69	5001		6.7	59.0F	7.3		40	73	550	28	.0	10	170	980	--	--	--		1920	400	60A
1230	5006	3	68	15.0C		2980	2.00	6.00	23.93	.72	.00	.16	3.54	27.64			8.0		1854	392	
							6	18	73	2		1	12	93							
12/04/69	5001		7.4	53.6F	7.1		--	--	--	--	--	--	--	--	--	--	--				70A
1155	5006	2	70	12.0C		3640											.8				
01/02/70	5001		8.7	48.2F	7.3		--	--	--	--	--	--	--	--	--	--	--				75A
0930	5006	3	76	9.0C		1250											--				
02/02/70	5001		8.4	51.8F	6.9		34	33	166	9.0	.0	108	132	254	--	.50	--		852	221	100A
1230	5006	3	77	11.0C		1240	1.70	2.71	7.22	.23	.00	1.77	2.75	7.16			22.0		705	132	
							14	23	61	2		14	22	58							
03/05/70	5001		8.0	53.6F	7.2		--	--	--	--	--	--	--	--	--	--	--				150A
1130	5006	3	75	12.0C		1010											--				
04/01/70	5001		8.7	59.0F	6.9		--	--	--	--	--	--	--	--	--	--	--				140A
1130	5006	3	87	15.0C		1500											--				

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
EO S 811.0 204.8 CHADBOURNE SLOUGH AT CHADBOURNE ROAD CONTINUED																				
05/15/70	5301		7.9	54.2F	7.2		60	120	880	39	.0	113	285	1590	--	1.50	--	3310	644	55A
1245	5306	3	87	19.0C		5170	2.99	9.86	38.28	1.00	.00	1.85	5.93	44.84			13.0	3045	550	
							6	19	73	2		4	11	87						
06/12/70	5301		7.8	71.6F	7.7		--	--	--	--	--	--	--	--	--	--	--			80A
1150	5306	3	92	22.0C		6360											--			
07/13/70	5301		9.2	73.4F	7.7		--	--	--	--	--	--	--	--	--	--	--			50A
1335	5306	3	111	23.0C		7960											--			
08/10/70	5301		8.4	75.2F	7.8		100	240	2000	86	.0	137	550	3600	--	1.00	--	6980	1238	39A
1130	5306	3	104	24.0C		11500	4.99	19.73	87.00	2.20	.00	2.25	11.44	101.52			--	6646	1124	
							4	17	76	2		2	10	88						
09/08/70	5301		8.3	73.4F	7.6		--	--	--	--	--	--	--	--	--	--	--			38A
1225	5306	3	97	23.0C		7320											--			
EO S 811.2 158.2 MONTEZUMA SLOUGH NEAR BELDONS LANDING																				
10/01/69	5050						--	--	--	--	--	--	--	446	--	--	--	974		
1100	5050					1740								12.58			--			
														72						
10/16/69	5050						--	--	--	--	--	--	--	1280	--	--	--	2610		
0955	5050					4530								36.10			--			
														80						
11/07/69	5050						--	--	--	--	--	--	--	985	--	--	--	2090		
1130	5050					3630								27.78			--			
														77						
11/20/69	5050						--	--	--	--	--	--	--	1060	--	--	--	2280		
1620	5050					3920								29.89			--			
														76						
12/05/69	5050						--	--	--	--	--	--	--	1100	--	--	--	2270		
1000	5050					3830								31.02			--			
														81						
12/19/69	5050						--	--	--	--	--	--	--	1290	--	--	--	2610		
0820	5050					4400								36.38			--			
														83						
01/09/70	5050						--	--	--	--	--	--	--	253	--	--	--	597		
0950	5050					1050								7.13			--			
														68						
01/26/70	5050						--	--	--	--	--	--	--	33	--	--	--	154		
0925	5050					247								.93			--			
														38						
02/04/70	5050						--	--	--	--	--	--	--	90	--	--	--	280		
1600	5050					475								2.54			--			
														53						
02/17/70	5050						--	--	--	--	--	--	--	109	--	--	--	333		
	5050					571								3.07			--			
														54						
03/04/70	5050						--	--	--	--	--	--	--	153	--	--	--	460		
1555	5050					781								4.31			--			
														55						
03/20/70	5050						--	--	--	--	--	--	--	208	--	--	--	525		
1400	5050					944								5.87			--			
														62						
04/02/70	5050						--	--	--	--	--	--	--	271	--	--	--	774		
1100	5050					1240								7.64			--			
														62						
04/15/70	5050						--	--	--	--	--	--	--	417	--	--	--	976		
1450	5050					1620								11.76			--			
														73						
04/30/70	5050						--	--	--	--	--	--	--	1450	--	--	--	2810		
1215	5050					4430								40.89			--			
														92						
05/01/70	5050						--	--	--	--	--	--	--	2220	--	--	--	4030		
1210	5050					6820								62.60			--			
														92						
05/14/70	5050						--	--	--	--	--	--	--	1450	--	--	--	2750		
1330	5050					4720								40.89			--			
														87						

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. DEPTH	DO SAT	TEMP	FIELD PH	LABORATORY EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER					MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
EC S 611.2 158.5 MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD																				
10/02/69	5001		7.5	69.8F	7.4		--	--	--	--	--	--	--	--	--	--	--			80A
1310	5006	3	85	21.0C		1760											--			
11/06/69	5001		5.1	61.8F	7.1		40	77	610	28	.0	85	185	1050	1.8	--	--	2090	417	75A
1420	5006	3	53	16.0C		3440	2.00	6.33	26.54	.72	.00	1.39	3.85	29.61	.03		8.0	2042	347	
							6	18	75	2		4	11	85						
12/04/69	5001		6.6	53.6F	7.0		--	--	--	--	--	--	--	--	--	--	--			80A
1345	5006	3	82	12.0C		3640											--			
01/02/70	5001		9.5	48.2F	7.2		--	--	--	--	--	--	--	--	--	--	--			90A
1040	5006	3	83	9.0C		1770											--			
02/02/70	5001		11.2	58.0F	7.1		13	10	34	3.0	.0	76	24	46	3.1	1.00	--	285	74	1500A
1400	5006	3	91	13.0C		310	.65	.82	1.48	.08	.00	1.25	.50	1.30	.05		22.0	194	11	
							21	27	49	3		40	16	42	2					
03/05/70	5001		8.3	55.4F	7.1		--	--	--	--	--	--	--	--	--	--	--			130A
1330	5006	3	79	13.0C		860											--			
04/01/70	5001		9.0	59.0F	7.2		--	--	--	--	--	--	--	--	--	--	--			110A
1300	5006	3	96	15.0C		1200											--			
05/15/70	5001		8.8	66.2F	7.5		60	116	840	39	.0	90	258	1530	2.2	1.40	--	3930	627	45A
1400	5006	3	97	19.0C		5240	2.99	9.54	36.54	1.00	.00	1.48	5.37	43.15	.04		12.0	2904	553	
							6	19	73	2		3	11	86						
06/12/70	5001		8.3	71.6F	7.7		--	--	--	--	--	--	--	--	--	--	--			38A
1330	5006	3	99	22.0C		7950											--			
07/13/70	5001		9.2	75.2F	7.8		--	--	--	--	--	--	--	--	--	--	--			32A
1450	5006	3	114	24.0C		9590											--			
08/10/70	5001		8.5	75.2F	7.8		110	270	2300	96	.0	106	490	4100	17	.90	--	8440	1386	25A
1320	5006	3	106	24.0C		12600	5.49	22.19	100.05	2.46	.00	1.74	10.19	115.62	.28		--	7438	1298	
							4	17	77	2		1	8	90						
09/03/70	5001		9.2	73.4F	7.8		--	--	--	--	--	--	--	--	--	--	--			19A
1420	5006	3	112	23.0C		10400											--			
EC S 611.5 207.2 CORDELIA SLOUGH AT UPPER END NEAR CORDELIA																				
10/02/69	5001		6.4	66.2F	7.5		--	--	--	--	--	--	--	--	--	--	--			45A
1035	5006	3	69	19.0C		1620											--			
04/01/70	5001		8.2	59.0F	7.5		--	--	--	--	--	--	--	--	--	--	--			95A
1100	5006	3	82	15.0C		1300											--			
05/15/70	5001		4.7	59.8F	7.4		45	47	205	10	.0	211	120	325	1.3	1.00	--	935	306	120A
1210	5006	2	53	21.0C		1440	2.25	3.86	8.92	.26	.00	3.46	2.50	9.17	.02		17.0	877	133	
							15	25	58	2		23	17	61						
06/12/70	5001		6.1	71.6F	7.7		--	--	--	--	--	--	--	--	--	--	--			130A
1115	5006	2	71	22.0C		2160											--			
07/13/70	5001		7.3	73.4F	7.6		--	--	--	--	--	--	--	--	--	--	--			90A
1240	5006	2	86	23.0C		1080											--			
08/10/70	5001		5.2	73.4F	7.6		39	60	320	15	.0	195	116	540	.4	--	--	1310	345	100A
1045	5006	2	62	23.0C		2120	1.95	4.93	13.92	.38	.00	3.20	2.41	15.23	.01		12.0	1200	184	
							9	23	66	2		15	12	73						
09/08/70	5001		5.5	69.8F	7.6		--	--	--	--	--	--	--	--	--	--	--			90A
1115	5006	3	63	21.0C		1590											--			
EC S 613.6 201.2 HILL SLOUGH AT GRIZZLY ISLAND ROAD																				
10/02/69	5001		6.6	69.8F	7.5		--	--	--	--	--	--	--	--	--	--	--			65A
1240	5006	3	76	21.0C		3490											--			
11/06/69	5001		5.6	60.8F	7.2		56	86	660	30	.0	150	180	1130	3.1	.40	--	2320	494	80A
1232	5006	3	58	16.0C		3800	2.79	7.07	28.71	.77	.00	2.46	3.74	31.87	.05		10.0	2231	370	
							7	18	73	2		6	10	84						
12/04/69	5001		5.2	50.0F	7.2		--	--	--	--	--	--	--	--	--	--	--			75A
1320	5006	3	47	10.0C		4060											--			
01/02/70	5001		5.8	46.4F	7.2		--	--	--	--	--	--	--	--	--	--	--			90A
1010	5006	3	49	8.0C		1410											--			
02/02/70	5001		6.4	51.8F	7.1		37	26	146	8.4	.0	164	76	220	6.6	1.00	--	777	200	80A
1330	5006	3	58	11.0C		1070	1.85	2.14	6.35	.22	.00	2.69	1.58	6.20	.11		14.0	617	65	
							18	20	60	2		25	15	59	1					

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									B	F SIO2	TDS SUM	TH NCH	TURB
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3					
EG S 613.6 261.2					HILL SLOUGH AT GRIZZLY ISLAND ROAD NEAR SUISUN															CONTINUED
03/05/70	5001		6.4	53.6F	7.3		--	--	--	--	--	--	--	--	--	--	--			110A
1300	5006	3	63	12.0C		2100											--			
04/01/70	5001		7.7	59.0F	7.6		--	--	--	--	--	--	--	--	--	--	--			110A
1230	5006	3	77	15.0C		2500											--			
05/15/70	5001		7.3	66.2F	7.6		60	75	480	21	.0	204	213	780	5.8	1.90	--	1920	458	120A
1330	5006	3	80	19.0C		2980	2.99	6.17	20.88	.54	.00	3.35	4.43	22.00	.09		12.0	1751	291	
							10	20	68	2		11	15	74						
06/12/70	5001		7.7	69.8F	7.8		--	--	--	--	--	--	--	--	--	--	--			90A
1300	5006	3	89	21.0C		4840											--			
07/13/70	5001		7.4	73.4F	7.6		--	--	--	--	--	--	--	--	--	--	--			70A
1420	5006	3	89	23.0C		6630											--			
08/10/70	5001		5.6	75.2F	7.7		100	190	1500	65	.0	193	350	2540	2.2	1.20	--	5090	1032	55A
1240	5006	3	69	24.0C		8500	4.99	15.62	65.25	1.66	.00	3.17	7.28	71.63	.04		6.0	4851	873	
							6	18	75	2		4	9	87						
09/08/70	5001		7.0	73.4F	7.8		--	--	--	--	--	--	--	--	--	--	--			75A
1325	5006	3	83	23.0C		1590											--			

DATE TIME	SAMPLER LAB	G.H. D	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									B	F SIO2	TDS SUM	TH NCH	TURB
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3					
E3 1250.00					NAPA RIVER NEAR NAPA															
11/13/69	5050	2.75	8.8	52 F		400	27	21	20	--	.0	178	--	26	--	--	--		156	4E
0750	5050		80	11 C	7.7	391	1.35	1.77	.87		.00	2.92		.73			--		10	
							35	45	22			75		19						
01/23/70	5050	3.50	10.9	52 F	7.2	157	11	6.9	7.1	--	.0	69	--	5.3	--	--	--		56	55E
1500	5050		99	11 C	7.2	161	.55	.57	.31		.00	1.13		.15			--		1	
							34	35	19			70		9						
03/27/70	5050	3.78	9.9	62 F	7.8	258	19	16	12	--	.0	129	--	8.6	--	--	--		116	20E
1620	5050		101	17 C	8.0	271	.95	1.36	.52		.00	2.12		.24			--		10	
							35	50	19			78		9						
05/06/70	5050	2.58	11.4	65 F	8.3	310	24	19	16	--	.0	162	--	13	--	--	--		140	2E
1340	5050		121	18 C	8.2	333	1.20	1.59	.70		.00	2.66		.37			--		7	
							36	48	21			80		11						
07/15/70	5050	2.05	7.6	68 F	7.7	345	27	23	21	--	.0	180	--	20	--	--	--		166	3E
1000	5050		84	20 C	7.9	387	1.35	1.96	.91		.00	2.95		.56			--		18	
							35	51	24			76		14						
08/28/70	5050	2.38	9.7	79 F	7.9	400	--	--	--	--	--	--	--	--	--	--	--			
1400			121	26 C													--			
E3 2100.51					GREEN VALLEY CREEK AT CORDELIA															
11/06/69	5001		5.0	59.0F	7.4		--	--	225	15	.0	191	75	400	--	--	--	922		13A
1155	5006	2	50	15.0C		1580			9.79	.38	.00	3.13	1.56	11.28			11.0			
									62	2		20	10	71						
12/04/69	5001		7.8	46.4F	7.2		--	--	--	--	--	--	--	--	--	--	--			10A
1130	5006	3	67	8.0C		3560											--			
01/02/70	5001		6.9	41.0F	7.3		--	--	--	--	--	--	--	--	--	--	--			10A
0910	5006	2	70	5.0C		1550											--			
F8 2100.00					NAVARRO RIVER NEAR NAVARRO															
11/05/69	5050		11.0	58 F	7.3		--	--	13	--	.0	139	--	10	--	.20	--		108	2E
1545	5050		107	14 C	8.1	263			.57		.00	2.28		.28			--			
									22			87		11						
01/08/70	5050	2.96	11.7	47 F	7.3		--	--	9.5	--	.0	104	--	6.0	--	.20	--		86	5E
1005	5050		99	8 C	7.4	212			.41		.00	1.71		.17			--			
									19			81		8						
03/11/70	5050		11.5	52 F	7.4		--	--	8.8	--	.0	86	--	6.0	--	.10	--		67	30E
1710	5050		104	11 C	7.7	170			.38		.00	1.41		.17			--			
									22			83		10						
05/14/70	5050	2.58	10.1	58 F	7.4		26	9.7	12	.9	.0	133	10	8.1	.1	.40	--	144	105	2E
0830	5050		98	14 C	7.7	250	1.30	.80	.52	.02	.00	2.18	.21	.23	.00		--	134	4	
							49	30	20	1		83	8	9						
07/08/70	5050		10.5	77 F	7.6		--	--	14	--	.0	144	--	8.0	--	.20	--		110	1E
1500	5050		125	25 C	8.1	272			.61		.00	2.36		.23			--			
									22			87		8						
09/16/70	5050	1.78	10.5	64 F	7.3		--	--	15	--	.0	145	--	10	--	.30	--		114	0E
1450	5050		109	18 C	8.2	269			.65		.00	2.38		.28			--			
									24			88		10						

TABLE D-2 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. ft	DO SAT	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
F8	2720.00				BIG RIVER NEAR MENDOCINO															
11/05/69	5050	7.31	10.8	56 F	7.4		--	--	11	--	.0	106	--	8.7	--	.40	--		82	7E
1440	5050		103	13 C	8.1	208			.48		.00	1.74		.25			--			
									23			84		12						
01/08/70	5050	7.35	12.1	45 F	7.8		--	--	8.2	--	.0	81	--	5.3	--	.20	--		64	4E
0900	5050		100	7 C	7.4	166			.36		.00	1.33		.15			--			
									22			80		9						
03/11/70	5050	8.86	11.6	51 F	7.3		--	--	7.5	--	.0	62	--	5.7	--	.10	--		49	20E
1610	5050		104	11 C	7.6	130			.33		.00	1.02		.16			--			
									25			78		12						
05/14/70	5050	7.25	10.5	56 F	7.3		20	5.8	11	.9	--	99	6.6	7.0	.1	.20	--	134	74	3E
0730	5050		100	13 C	7.6	190	1.00	.48	.48	.02		1.61	.14	.20	.00		--			
							51	24	24	1		85	7	11						
07/08/70	5050	6.98	9.9	68 F	7.3		--	--	13	--	.0	108	--	6.9	--	.30	--		78	1E
1350	5050		108	20 C	8.2	211			.57		.00	1.77		.19			--			
									27			84		9						
09/16/70	5050	7.00	9.8	57 F	7.3		--	--	14	--	.0	108	--	9.1	--	.50	--		84	0E
1355	5050		94	14 C	8.0	204			.61		.00	1.77		.26			--			
									30			87		13						
F8	3100.00				NOYO RIVER NEAR FORT BRAGG															
11/05/69	5050		10.4	55 F	7.3		--	--	11	--	.0	76	--	9.4	--	.20	--		57	290E
1345	5050		98	13 C	7.6	163			.48		.00	1.25		.27			--			
									29			77		17						
01/08/70	5050		12.1	45 F	7.0		--	--	7.4	--	.0	60	--	5.1	--	.10	--		46	4E
0810	5050		100	7 C	7.2	130			.32		.00	.98		.14			--			
									25			75		11						
03/11/70	5050		11.7	51 F	7.3		--	--	6.9	--	.0	50	--	5.8	--	.00	--		37	40E
1510	5050		105	11 C	7.5	107			.30		.00	.82		.16			--			
									28			77		15						
05/13/70	5050		11.3	61 F	7.3		13	5.2	9.3	.6	.0	70	4.0	6.0	.1	.10	--	92	54	4E
1420	5050		114	16 C	7.6	146	.65	.43	.40	.02	.00	1.15	.08	.17	.00		--	73	4	
							43	29	27	1		82	6	12						
07/08/70	5050		10.0	64 F	7.1		--	--	11	--	.0	64	--	9.8	--	.00	--		49	1E
1300	5050		104	18 C	7.7	152			.48		.00	1.05		.28			--			
									32			69		18						
09/16/70	5050	3.08	9.6	55 F	7.1		--	--	11	--	.0	83	--	9.7	--	.20	--		64	1E
1300	5050		90	13 C	7.6	171			.48		.00	1.36		.27			--			
									28			80		16						
F9	1080.50				RUSSIAN RIVER AT GUERNEVILLE															
11/13/69	5050	3.92	9.5	55 F	7.9	282	26	13	12	--	.0	146	--	11	--	--	--		121	7E
1030	5050		88	13 C	7.8	284	1.30	1.12	.52		.00	2.39		.31			--		2	
							43	37	17			79		10						
01/28/70	5050	4.30	10.6	59 F	7.3	133	12	5.3	5.0	--	.0	65	--	4.0	--	--	--		52	280E
1120	5050		94	16 C	7.3	141	.60	.44	.22		.00	1.07		.11			--		2	
							40	29	15			71		7						
06/17/70	5050	4.95	9.2	74 F	8.0	290	--	--	--	--	--	--	--	--	--	--	--			
1530			108	23 C													--			
08/27/70	5050	4.74	8.1	79 F	8.3	300	--	--	--	--	--	--	--	--	--	--	--			
1030			92	21 C													--			
F9	1100.00				RUSSIAN RIVER NEAR GUERNEVILLE															
03/27/70	5050	7.68	9.6	59 F	7.8	260	25	14	9.5	--	.0	139	--	5.1	--	--	--		122	35E
1330	5050		96	15 C	8.1	264	1.25	1.18	.41		.00	2.28		.14			--		8	
							47	45	16			86		5						
05/07/70	5050	5.53	9.3	64 F	8.0	320	29	18	11	--	.0	173	--	10	--	--	--		150	7E
0920	5050		97	18 C	7.7	330	1.45	1.55	.48		.00	2.84		.28			--		8	
							44	47	15			86		8						
07/14/70	5050	4.82	9.2	77 F	8.0	240	26	16	12	--	.0	148	--	9.6	--	--	--		132	5E
1600	5050		113	25 C	7.8	290	1.30	1.34	.52		.00	2.43		.27			--		11	
							45	46	18			84		9						

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Abbreviations and Codes

MBAS - Methylene blue active substance, a measure of detergent surfactants

BOD - Biological oxygen demand

Mg/L - Milligrams per liter

Ug/L - Micrograms per liter

Ft. - Feet

Codes for agency collecting sample

5000 - U. S. Geological Survey

5001 - U. S. Bureau of Reclamation

5050 - Department of Water Resources

Codes for laboratory performing analysis

5000 - U. S. Geological Survey Laboratory at Sacramento

5006 - McClellan Air Force Base Laboratory, used by U. S. Bureau of Reclamation

5050 - Department of Water Resources Laboratory at Bryte

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
DO 1100.00	BRANCIFORTE CREEK AT SANTA CRUZ	03-17-70 0720	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	11	Mg/L		
		04-08-70 1100	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	5	Mg/L		
DO 1180.01	SAN LORENZO RIVER AT PARADISE PARK	03-16-70 1410	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	11	Mg/L		
		08-04-70 1015	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	19	Mg/L		
DO 1220.01	ZAYANTE CREEK AT FELTON	03-16-70 1615	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	14	Mg/L		
		08-04-70 0930	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	5	Mg/L		
DO 1498.01	SAN LORENZO RIVER AT BOULDER CREEK	03-16-70 1545	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	3	Mg/L		
		08-04-70 0850	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	3	Mg/L		
DO 2020.00	APTOS CREEK BELOW VALENCIA CREEK NEAR APTOS	03-17-70 0820	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	39	Mg/L		
		08-04-70 1210	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	3	Mg/L		
DO 3100.00	SOQUEL CREEK AT SOQUEL	03-17-70 0800	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	8	Mg/L		
		08-04-70 1250	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	6	Mg/L		
DO 4010.01	SCOTT CREEK AT HIGHWAY 1 NEAR DAVENPORT	03-17-70 0930	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	4	Mg/L		
		08-04-70 0845	MBAS	0.0	Mg/L	5050	5050
			Suspended Solids	11	Mg/L		
D1 1075.30	PAJARO RIVER AT THURWACHTER ROAD	05-05-70 1635	MBAS	0.0	Mg/L	5050	5050
			BOD	2.7	Mg/L		
		08-25-70 1030	MBAS	0.0	Mg/L	5050	5050
			BOD	1.4	Mg/L		
			Mercury	0.0	Mg/L		
D1 1250.00	PAJARO RIVER AT CHITTENDEN	04-07-70 --	Aluminum	<3.3	Ug/L	5000	5000
			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	5.3	Ug/L		
			Lead	<3.3	Ug/L		
			Manganese	<3.3	Ug/L		
			Molybdenum	<1.9	Ug/L		
			Nickel	<0.7	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	1.7	Ug/L		
			Zinc	<13	Ug/L		
		08-04-70 --	Aluminum	<3.3	Ug/L	5000	5000
			Beryllium	<1.3	Ug/L		
			Bismuth	35	Ug/L		
			Cadmium	<3.3	Ug/L		
			Chromium	<3.3	Ug/L		
			Cobalt	410	Ug/L		
			Copper	<3.3	Ug/L		
			Gallium	57	Ug/L		
			Germanium	<0.7	Ug/L		
			Iron	8.0	Ug/L		
			Lead	<3.3	Ug/L		
			Manganese	<3.3	Ug/L		
			Molybdenum	4.5	Ug/L		
			Nickel	16	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	7.3	Ug/L		
			Zinc	<13	Ug/L		
D1 1350.30	ELKHORN SLOUGH AT HIGHWAY 1	05-05-70 1700	MBAS	0.1	Mg/L	5050	5050
			BOD	1.6	Mg/L		

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
D2 1006.30	TEMBLADERO SLOUGH AT NASHUA ROAD	05-05-70 1715	MBAS	0.0	Mg/L	5050	5050
			BOD	12	Mg/L		
		08-25-70 1135	MBAS	0.0	Mg/L	5050	5050
			BOD	10	Mg/L		
			Mercury	0.0	Mg/L		
D2 1006.60	TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN	08-25-70 1230	MBAS	0.0	Mg/L	5050	5050
			BOD	13	Mg/L		
D2 1010.20	SALINAS RECLAMATION CANAL AT BORONDA ROAD	05-05-70 1530	MBAS	0.0	Mg/L	5050	5050
			BOD	13	Mg/L		
		08-25-70 1225	MBAS	0.0	Mg/L	5050	5050
			BOD	12	Mg/L		
D2 1015.50	SALINAS RECLAMATION CANAL AT END OF MERCED STREET	05-05-70 1455	MBAS	0.0	Mg/L	5050	5050
			BOD	21			
		08-25-70 1045	MBAS	0.0	Mg/L	5050	5050
			BOD	5.7	Mg/L		
D2 1020.70	SALINAS RECLAMATION CANAL AT AIRPORT WAY	05-05-70 1415	MBAS	0.0	Mg/L	5050	5050
			BOD	3.0	Mg/L		
		08-25-70 1020	MBAS	0.0	Mg/L	5050	5050
			BOD	8.5	Mg/L		
D2 1030.30	BLANCO DRAIN AT PUMP LIFT	05-05-70 1555	MBAS	0.0	Mg/L	5050	5050
			BOD	11	Mg/L		
		08-25-70 1300	MBAS	0.0	Mg/L	5050	5050
			BOD	3.6	Mg/L		
			Mercury	0.0	Mg/L		
D2 1150.30	SALINAS RIVER AT BLANCO ROAD	05-05-70 1610	MBAS	0.1	Mg/L	5050	5050
			BOD	9.2	Mg/L		
		08-25-70 1325	MBAS	0.1	Mg/L		
			BOD	18	Mg/L		
			Mercury	0.1	Mg/L		
D2 1220.00	SALINAS RIVER NEAR SPRECKELS	05-05-70 1640	MBAS	0.1	Mg/L	5050	5050
			BOD	9.2	Mg/L		
		08-25-70 1535	MBAS	0.0	Mg/L	5050	5050
			BOD	7.3	Mg/L		
D2 1325.10	SALINAS RIVER NEAR GONZALES	04-07-70 --	Aluminum	<3.3	Ug/L	5000	5000
			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	8.7	Ug/L		
			Lead	<3.3	Ug/L		
			Manganese	<3.3	Ug/L		
			Molybdenum	4.7	Ug/L		
			Nickel	<0.7	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	1.6	Ug/L		
			Zinc	<13	Ug/L		
		08-03-70 --	Aluminum	<3.3	Ug/L	5000	5000
			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		
			Gallium	<13	Ug/L		
			Germanium	<0.7	Ug/L		
			Iron	7.3	Ug/L		
			Lead	<3.3	Ug/L		
			Manganese	<3.3	Ug/L		
			Molybdenum	6.0	Ug/L		
			Nickel	<0.7	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	5.3	Ug/L		
			Zinc	<13	Ug/L		
D2 1450.00	ARROYO SECO NEAR SOLEDAD	12-03-69 --	Lead	0.00	Mg/L	5050	5050

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
D2 1475.00	ARROYO SECO NEAR GREENFIELD	12-03-69 --	Aluminum	<3.3	Ug/L	5000	5000
			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	8.7	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	1.3	Ug/L		
			Zinc	<13	Ug/L		
D2 1850.00	SALINAS RIVER NEAR BRADLEY	04-08-70 --	Aluminum	2.3	Ug/L	5000	5000
			Beryllium	<1.3	Ug/L		
			Bismuth	<0.7	Ug/L		
			Cadmium	33	Ug/L		
			Chromium	40	Ug/L		
			Cobalt	<3.3	Ug/L		
			Copper	<3.3	Ug/L		
			Gallium	<13	Ug/L		
			Germanium	<0.7	Ug/L		
			Iron	133	Ug/L		
			Lead	<3.3	Ug/L		
			Manganese	<3.3	Ug/L		
			Molybdenum	8.7	Ug/L		
			Nickel	100	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	2.4	Ug/L		
			Zinc	<13	Ug/L		
		08-03-70 --	Aluminum	<3.3	Ug/L	5000	5000
			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	67	Ug/L		
			Lead	<3.3	Ug/L		
			Manganese	<3.3	Ug/L		
			Molybdenum	6.3	Ug/L		
			Nickel	<0.7	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	3.7	Ug/L		
			Zinc	<13	Ug/L		
D4 1007.60	PACIFIC OCEAN AT CARMEL S.T.P. OUTFALL	05-05-70 1530	MBAS	0.1	Mg/L	5050	5050
			BOD	4.6	Mg/L		
D4 1008.50	CARMEL RIVER NEAR MOUTH	05-05-70 1510	MBAS	0.0	Mg/L	5050	5050
			BOD	0.9	Mg/L		
		08-25-70 1345	MBAS	0.0	Mg/L	5050	5050
			BOD	2.2	Mg/L		
D4 1095.10	CARMEL RIVER AT BERONDA ROAD	05-05-70 1410	MBAS	0.0	Mg/L	5050	5050
			BOD	2.8	Mg/L		
D4 1200.00	CARMEL RIVER AT ROBLES DEL RIO	04-07-70 --	Aluminum	<3.3	Ug/L	5000	5000
			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	19	Ug/L		
			Lead	3.3	Ug/L		
			Manganese	<3.3	Ug/L		
			Molybdenum	3.1	Ug/L		
			Nickel	<0.7	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	1.4	Ug/L		
			Zinc	<13	Ug/L		

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
D4 2100.00	BIG SUR RIVER AT BIG SUR	01-21-70 --	Aluminum	12	Ug/L	5000	5000
			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	15	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	1.1	Ug/L		
			Zinc	<13	Ug/L		
D4 3003.50	SALMON CREEK AT HIGHWAY 1	01-20-70 --	Aluminum	27	Ug/L	5000	5000
			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	22	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	<0.7	Ug/L		
			Zinc	<13	Ug/L		
D4 3005.50	SODA SPRINGS CREEK AT HIGHWAY 1	01-20-70 --	Aluminum	8.7	Ug/L	5000	5000
			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	12	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	<0.7	Ug/L		
			Zinc	<13	Ug/L		
D4 3010.00	REDWOOD GULCH NEAR JOLON	01-20-70 --	Aluminum	25	Ug/L	5000	5000
			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	29	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	<0.7	Ug/L		
			Zinc	<13	Ug/L		
D4 3020.30	VILLA CREEK AT HIGHWAY 1	01-20-70 --	Aluminum	25	Ug/L	5000	5000
			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	17	Ug/L		
			Lead	<3.3	Ug/L		

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
D4 3020.30	VILLA CREEK AT HIGHWAY 1 (Continued)	01-20-70 --	Manganese	<3.3	Ug/L	5000	5000
			Molybdenum	<0.7	Ug/L		
			Nickel	<0.7	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	<0.8	Ug/L		
			Zinc	<13	Ug/L		
D4 3050.20	WILLOW CREEK AT HIGHWAY 1	01-20-70 --	Aluminum	15	Ug/L	5000	5000
			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	35	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	<0.7	Ug/L		
			Zinc	<13	Ug/L		
D4 3078.50	WILD CATTLE CREEK AT HIGHWAY 1	01-20-70 --	Aluminum	<3.3	Ug/L	5000	5000
			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	80	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	<0.7	Ug/L		
			Zinc	<13	Ug/L		
D4 3105.50	LIMEKILN CREEK AT HIGHWAY 1	01-20-70 --	Aluminum	20	Ug/L	5000	5000
			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	27	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	1.3	Ug/L		
			Zinc	<13	Ug/L		
D4 3201.50	BIG CREEK AT HIGHWAY 1	01-20-70 --	Aluminum	6.0	Ug/L	5000	5000
			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	15	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	1.8	Ug/L		
			Zinc	<13	Ug/L		

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
D4 3280.50	HOT SPRINGS CANYON AT HIGHWAY 1	01-20-70 --	Aluminum	7.3	Ug/L	5000	5000
			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	11	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	2.3	Ug/L		
			Zinc	<3.3	Ug/L		
D4 3330.30	PARTINGTON CREEK AT HIGHWAY 1	01-20-70 --	Aluminum	11	Ug/L	5000	5000
			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	13	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	2.2	Ug/L		
			Zinc	<13	Ug/L		
D4 3610.20	LITTLE SUR RIVER AT HIGHWAY 1	01-21-70 --	Aluminum	27	Ug/L	5000	5000
			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	27	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	1.5	Ug/L		
			Zinc	<13	Ug/L		
D4 3628.50	BIXBY CREEK AT OLD COAST ROAD	01-21-70 --	Aluminum	7.3	Ug/L	5000	5000
			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	<3.3	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	0.9	Ug/L		
			Zinc	<13	Ug/L		
D4 3640.50	PALO COLORADO CANYON AT PALO COLORADO ROAD	01-21-70 --	Aluminum	20	Ug/L	5000	5000
			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	11	Ug/L		
			Lead	<3.3	Ug/L		
			Manganese	<3.3	Ug/L		

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
D4 3640.50	PALO COLORADO CANYON AT PALO COLORADO ROAD (Continued)	01-21-70 --	Molybdenum	<3.3	Ug/L	5000	5000
			Nickel	<0.7	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	1.3	Ug/L		
			Zinc	<13	Ug/L		
D4 3645.50	GARROPATA CREEK AT HIGHWAY 1	01-21-70 --	Aluminum	11	Ug/L	5000	5000
			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	10	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	1.3	Ug/L		
			Zinc	<13	Ug/L		
D4 3750.15	WILDCAT CREEK AT END OF PETER PAN ROAD	01-21-70 --	Aluminum	67	Ug/L	5000	5000
			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	73	Ug/L		
			Lead	<3.3	Ug/L		
			Manganese	50	Ug/L		
			Molybdenum	<0.7	Ug/L		
			Nickel	<0.7	Ug/L		
			Titanium	<1.3	Ug/L		
			Vanadium	<0.7	Ug/L		
			Zinc	<13	Ug/L		
D4 3800.50	SAN JOSE CREEK AT HIGHWAY 1	01-21-70 --	Aluminum	127	Ug/L	5000	5000
			Beryllium	<3.3	Ug/L		
			Bismuth	<1.3	Ug/L		
			Cadmium	<0.7	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	200	Ug/L		
			Lead	<3.3	Ug/L		
			Manganese	6.7	Ug/L		
			Molybdenum	<0.7	Ug/L		
			Nickel	<0.7	Ug/L		
			Titanium	6.3	Ug/L		
			Vanadium	2.8	Ug/L		
			Zinc	<13	Ug/L		
		05-05-70 1445	MBAS	0.0	Mg/L	5050	5050
			BOD	0.8	Mg/L		
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	12-15-69 1510	Suspended Solids	10	Mg/L	5050	5050
		02-25-70 1000	Suspended Solids	43	Mg/L	5050	5050
		03-24-70 0910	Suspended Solids	33	Mg/L	5050	5050
		05-28-70 1440	Suspended Solids	34	Mg/L	5050	5050
		07-22-70 0900	Suspended Solids	22	Mg/L	5050	5050
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	06-22-70 0945	Suspended Solids	4	Mg/L	5050	5050
		08-11-70 1045	Suspended Solids	2	Mg/L	5050	5050
		09-17-70 0700	Suspended Solids	8	Mg/L	5050	5050

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	12-15-69 1630	Suspended Solids	10	Mg/L	5050	5050
		02-25-70 1140	Suspended Solids	18	Mg/L	5050	5050
		03-24-70 1045	Suspended Solids	26	Mg/L	5050	5050
		05-28-70 1535	Suspended Solids	7	Mg/L	5050	5050
		06-22-70 1200	Suspended Solids	19	Mg/L	5050	5050
		07-22-70 1030	Suspended Solids	7	Mg/L	5050	5050
		08-11-70 1150	Suspended Solids	4	Mg/L	5050	5050
		09-17-70 0900	Suspended Solids	7	Mg/L	5050	5050
EO B 757.7 226.2	SAN PABLO STRAIT WEST OF THE BROTHERS	02-25-70 1315	Suspended Solids	16	Mg/L	5050	5050
		03-24-70 1145	Suspended Solids	22	Mg/L	5050	5050
		05-28-70 1735	Suspended Solids	19	Mg/L	5050	5050
		06-22-70 1300	Suspended Solids	38	Mg/L	5050	5050
		07-22-70 1130	Suspended Solids	38	Mg/L	5050	5050
		08-11-70 1320	Suspended Solids	4	Mg/L	5050	5050
		09-17-70 1015	Suspended Solids	9	Mg/L	5050	5050
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	10-21-69 1325	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
		11-20-69 1120	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	1.1	Ft.	5001	5001
		02-11-70 0810	BOD	0.6	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		03-16-70 1035	BOD	0.7	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
			Cadmium	<0.01	Mg/L	5001	5006
			Chromium	<0.01	Mg/L	5001	5006
			Copper	<0.1	Mg/L	5001	5006
			Iron, Total	<0.1	Mg/L	5001	5006
			Lead	0.01	Mg/L	5001	5006
			Manganese	<0.05	Mg/L	5001	5006
			Zinc	<0.1	Mg/L	5001	5006
		04-16-70 1215	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	1.2	Ft.	5001	5001
		05-18-70 1450	BOD	1.0	Mg/L	5001	5006
			Secchi Disk	2.2	Ft.	5001	5001
		06-15-70 1420	BOD	2.3	Mg/L	5001	5006
			Secchi Disk	3.0	Ft.	5001	5001
			Cadmium	<0.01	Mg/L	5001	5006
			Chromium	<0.01	Mg/L	5001	5006
			Copper	<0.1	Mg/L	5001	5006
			Iron	<0.1	Mg/L	5001	5006
			Lead	0.01	Mg/L	5001	5006
			Manganese	<0.05	Mg/L	5001	5006
			Zinc	<0.1	Mg/L	5001	5006
		07-15-70 1455	BOD	2.1	Mg/L	5001	5006
			Secchi Disk	2.2	Ft.	5001	5001
		08-13-70 1425	BOD	1.8	Mg/L	5001	5006
			Secchi Disk	2.3	Ft.	5001	5001
		09-09-70 1230	BOD	1.1	Mg/L	5001	5006
			Secchi Disk	1.3	Ft.	5001	5001
			Cadmium	0.01	Mg/L	5001	5006
			Chromium	<0.01	Mg/L	5001	5006
			Copper	<0.1	Mg/L	5001	5006
			Iron	0.1	Mg/L	5001	5006
			Lead	0.07	Mg/L	5001	5006
			Manganese	<0.05	Mg/L	5001	5006
			Zinc	<0.1	Mg/L	5001	5006

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
EO B 802.8 155.0	SACRAMENTO RIVER AT CHIPPS ISLAND	10-21-69 1610	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	1.1	Ft.	5001	5001
		11-20-69 1350	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		02-12-70 0840	BOD	0.9	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		03-16-70 1200	BOD	0.6	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
			Cadmium	<0.01	Mg/L	5001	5006
			Chromium	<0.01	Mg/L	5001	5006
			Copper	<0.1	Mg/L	5001	5006
			Iron, Total	<0.1	Mg/L	5001	5006
			Lead	0.04	Mg/L	5001	5006
			Manganese	0.12	Mg/L	5001	5006
			Zinc	<0.1	Mg/L	5001	5006
		04-16-70 1310	BOD	0.8	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		05-18-70 1550	BOD	0.7	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		06-15-70 1530	BOD	1.2	Mg/L	5001	5006
			Secchi Disk	1.2	Ft.	5001	5001
			Cadmium	<0.01	Mg/L	5001	5006
			Chromium	<0.01	Mg/L	5001	5006
			Copper	<0.1	Mg/L	5001	5006
			Iron	0.1	Mg/L	5001	5006
			Lead	<0.01	Mg/L	5001	5006
			Manganese	<0.05	Mg/L	5001	5006
			Zinc	<0.1	Mg/L	5001	5006
		07-15-70 1550	BOD	1.0	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		08-13-70 1520	BOD	1.5	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		09-09-70 1335	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
			Cadmium	0.02	Mg/L	5001	5006
			Chromium	<0.01	Mg/L	5001	5006
			Copper	<0.01	Mg/L	5001	5006
			Iron	0.2	Mg/L	5001	5006
			Lead	<0.01	Mg/L	5001	5006
			Manganese	0.1	Mg/L	5001	5006
			Zinc	<0.1	Mg/L	5001	5006
EO B 803.2 204.8	SUISUN BAY ABOVE AVON PIER	10-21-69 1355	BOD	1.6	Mg/L	5001	5006
			Secchi Disk	1.1	Ft.	5001	5001
		11-20-69 1155	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	1.1	Ft.	5001	5001
		02-11-70 0840	BOD	0.4	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		03-16-70 1105	BOD	0.5	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
		04-15-70 1010	BOD	0.9	Mg/L	5001	5006
			Secchi Disk	1.2	Ft.	5001	5001
		05-20-70 1645	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
		06-17-70 1530	BOD	2.2	Mg/L	5001	5006
			Secchi Disk	1.5	Ft.	5001	5001
		07-16-70 1550	BOD	1.9	Mg/L	5001	5006
			Secchi Disk	1.1	Ft.	5001	5001
		08-14-70 1440	BOD	2.3	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
		09-11 70 1325	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
EO B 803.6 159.3	SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS	10-21-69 1500	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
		11-20-69 1305	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		02-11-70 0915	BOD	0.4	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		03-19-70 1400	BOD	0.8	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
		04-15-70 1055	BOD	1.0	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
EO B 803.6 159.3	SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS (Continued)	05-20-70 1720	BOD	1.1	Mg/L	5001	5006
			Secchi Disk	1.2	Ft.	5001	5001
		06-17-70 1610	BOD	1.8	Mg/L	5001	5006
			Secchi Disk	1.2	Ft.	5001	5001
		07-16-70 1630	BOD	2.2	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
		08-14-70 1515	BOD	2.1	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		09-11-70 1420	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
EO B 804.0 203.0	SUISUN BAY NEAR PRESTON POINT	10-21-69 1415	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
		11-20-69 1220	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
		02-11-70 0855	BOD	0.5	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		03-16-70 1120	BOD	0.6	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
		04-15-70 1030	BOD	0.8	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		05-20-70 1655	BOD	1.0	Mg/L	5001	5006
			Secchi Disk	1.8	Ft.	5001	5001
		06-17-70 1545	BOD	2.1	Mg/L	5001	5006
			Secchi Disk	1.4	Ft.	5001	5001
		07-16-70 1605	BOD	1.7	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		08-14-70 1455	BOD	1.9	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		09-11-70 1350	BOD	1.2	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
EO B 804.4 156.2	HONKER BAY NEAR WHEELER POINT	10-21-69 1530	BOD	1.2	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
		11-21-69 1120	BOD	1.5	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		02-11-70 0940	BOD	0.5	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		03-19-70 1435	BOD	0.8	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		04-15-70 1115	BOD	0.7	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		05-20-70 1740	BOD	1.1	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
		06-17-70 1630	BOD	1.1	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		07-16-70 1645	BOD	1.7	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		08-14-70 1540	BOD	2.6	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		09-11-70 1450	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
EO B 807.0 202.3	GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH	10-21-69 1215	BOD	1.1	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		11-21-69 1020	BOD	1.5	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		02-11-70 0730	BOD	0.4	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		03-16-70 0940	BOD	0.7	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		04-16-70 1130	BOD	0.9	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		05-18-70 1350	BOD	0.6	Mg/L	5001	5006
			Secchi Disk	1.0	Ft.	5001	5001
		06-15-70 1335	BOD	1.7	Mg/L	5001	5006
			Secchi Disk	1.5	Ft.	5001	5001
		07-15-70 1420	BOD	2.0	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
EO B 807.0 202.3	GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH (Continued)	08-13-70 1340	BOD	2.1	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
		09-09-70 1140	BOD	2.0	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
EO S 809.2 205.3	CORDELIA SLOUGH AT CYGNUS	10-02-69 0930	BOD	1.5	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		11-06-69 1100	BOD	1.8	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		12-04-69 1030	BOD	1.2	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		01-02-70 0845	BOD	1.7	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		02-02-70 1035	BOD	1.9	Mg/L	5001	5006
			Secchi Disk	0.3	Ft.	5001	5001
		03-05-70 1035	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	0.3	Ft.	5001	5001
		04-01-70 1020	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		05-15-70 1130	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		06-12-70 1005	BOD	1.6	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		07-13-70 1200	BOD	1.2	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		08-10-70 1010	BOD	1.0	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		09-08-70 1000	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
EO S 810.8 202.8	SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND	10-02-69 1355	BOD	1.5	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		11-06-69 1124	BOD	1.8	Mg/L	5001	5006
			Secchi Disk	0.4	Ft.	5001	5001
		12-04-70 1420	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		01-02-70 1130	BOD	2.2	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		02-02-70 1430	BOD	1.9	Mg/L	5001	5006
			Secchi Disk	0.3	Ft.	5001	5001
		03-20-70 1040	Secchi Disk	0.7	Ft.	5001	5001
		04-01-70 1340	BOD	2.5	Mg/L	5001	5006
			Secchi Disk	0.4	Ft.	5001	5001
		05-15-70 1530	BOD	2.8	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		06-12-70 1400	BOD	2.8	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		07-13-70 1540	BOD	2.1	Mg/L	5001	5006
			Secchi Disk	1.1	Ft.	5001	5001
		08-10-70 1400	BOD	1.8	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		09-08-70 1455	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	1.2	Ft.	5001	5001
EO S 811.0 204.8	CHADBOURNE SLOUGH AT CHADBOURNE ROAD	10-02-69 1135	Secchi Disk	0.6	Ft.	5001	5001
		11-06-69 1230	Secchi Disk	0.5	Ft.	5001	5001
		12-04-69 1155	Secchi Disk	0.7	Ft.	5001	5001
		01-02-70 0930	Secchi Disk	0.6	Ft.	5001	5001
		02-02-70 1230	Secchi Disk	0.4	Ft.	5001	5001
		03-05-70 1130	Secchi Disk	0.3	Ft.	5001	5001
		04-01-70 1130	Secchi Disk	0.4	Ft.	5001	5001

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
EO S 811.0 204.8	CHADBOURNE SLOUGH AT CHADBOURNE ROAD (Continued)	05-15-70 1245	Secchi Disk	0.7	Ft.	5001	5001
		06-12-70 1150	Secchi Disk	0.5	Ft.	5001	5001
		07-13-70 1335	Secchi Disk	0.8	Ft.	5001	5001
		08-10-70 1130	Secchi Disk	0.8	Ft.	5001	5001
		09-08-70 1225	Secchi Disk	1.0	Ft.	5001	5001
EO S 811.2 158.5	MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD	10-02-70 1310	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	0.4	Ft.	5001	5001
		11-06-70 1420	BOD	0.4	Mg/L	5001	5006
			Secchi Disk	0.4	Ft.	5001	5001
		12-04-70 1345	BOD	1.5	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		01-02-70 1040	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		02-02-70 1400	BOD	1.0	Mg/L	5001	5006
			Secchi Disk	0.3	Ft.	5001	5001
		03-05-70 1330	BOD	1.6	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		04-01-70 1300	BOD	2.3	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		05-15-70 1400	BOD	1.3	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		06-12-70 1330	BOD	1.5	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		07-13-70 1450	BOD	1.2	Mg/L	5001	5006
			Secchi Disk	1.1	Ft.	5001	5001
		08-10-70 1320	BOD	1.7	Mg/L	5001	5006
			Secchi Disk	1.6	Ft.	5001	5001
		09-08-70 1420	BOD	1.0	Mg/L	5001	5006
			Secchi Disk	1.7	Ft.	5001	5001
EO S 811.5 207.2	CORDELIA SLOUGH AT UPPER END NEAR CORDELIA	10-02-69 1035	BOD	2.2	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
		04-01-70 1100	BOD	2.3	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		05-15-70 1210	BOD	1.4	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		06-12-70 1115	BOD	1.6	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		07-13-70 1240	BOD	2.4	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		08-10-70 1045	BOD	2.5	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
		09-08-70 1115	BOD	0.3	Mg/L	5001	5006
			Secchi Disk	0.6	Ft.	5001	5001
EO S 813.6 201.2	HILL SLOUGH AT GRIZZLY ISLAND ROAD	10-02-69 1240	BOD	1.6	Mg/L	5001	5006
			Secchi Disk	0.8	Ft.	5001	5001
		11-06-69 1232	BOD	2.7	Mg/L	5001	5006
			Secchi Disk	0.4	Ft.	5001	5001
		12-04-69 1320	BOD	2.0	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		01-02-70 1010	BOD	4.0	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		02-02-70 1330	BOD	2.5	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		03-05-70 1300	BOD	2.7	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		04-01-70 1230	BOD	3.7	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
		05-15-70 1330	BOD	5.2	Mg/L	5001	5006
			Secchi Disk	0.3	Ft.	5001	5001
		06-12-70 1300	BOD	4.3	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents			Samp	Lab
EO S 813.6 201.2	HILL SLOUGH AT GRIZZLY ISLAND ROAD (Continued)	07-13-70 1420	BOD	1.7	Mg/L	5001	5006
			Secchi Disk	0.9	Ft.	5001	5001
		08-10-70 1240	BOD	1.5	Mg/L	5001	5006
			Secchi Disk	0.7	Ft.	5001	5001
		09-08-70 1325	BOD	0.7	Mg/L	5001	5006
			Secchi Disk	0.5	Ft.	5001	5001
E3 2100.51	GREEN VALLEY CREEK AT CORDELIA	11-06-69 1155	BOD	1.2	Mg/L	5001	5006
			Secchi Disk	2.0	Ft.	5001	5001
		12-04-69 1130	BOD	1.5	Mg/L	5001	5006
			Secchi Disk	1.8	Ft.	5001	5001
		01-02-70 0910	BOD	1.9	Mg/L	5001	5006

TABLE D-4

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

(Chlorides in Milligrams Per Liter)

Station	Station Number	OCTOBER 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	6,800	8,800 e	11,350	10,100 d	9,920			
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	3,800 a	7,700 e	6,080	6,550 a	7,100 a	7,200 a	6,320	4,700 a
SUISUN BAY AT PORT CHICAGO	E0B80342023	1,410 de	2,600 de	3,980	4,070	2,400	2,800 a	2,790	1,680
SUISUN BAY AT NICHOLS	E0B80301590			4,400	4,630	2.800	3,050	2,700	2,540
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	30 ade	66 a	250	255 a	180 a		82	
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510			14 d	177 d	82	28	22	14

Station	Station Number	NOVEMBER 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	7,920		9,800	8,220	6,220	9,080	8,470	6,920
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	6,950	7,550	5,020 a	6,160	3,970	7,500		5,780
SUISUN BAY AT PORT CHICAGO	E0B80342023	3,150		2,290 a	2.840	1,930 d		1,680 a	1,760 a
SUISUN BAY AT NICHOLS	E0B80301590	2,890	4,180	3,260	2,890	1,100	3,460	3,390	2,460
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	38		100	80 bd	40	60	58	54
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510	12	22	52	7	15	28		

Station	Station Number	DECEMBER 1969							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	8,160	10,400	10,800	8,540	8,590	5,590	1,250	2,600
CARQUINEZ STRAIT AT MARTINEZ	E0B81092078		8,230	5,950	5,590	3,320 ae	2,320	231	2,450
SUISUN BAY AT PORT CHICAGO	E0B80342023		5,400	3,370 bd	2,900	3,080	268 bd	44	
SUISUN BAY AT NICHOLS	E0B80301590	2,940	5,200	5,690	2,220	2,180	700	30	14
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	62	128		196	56	42	24	16
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510		36	192 d	51	7	14	5	8

Station	Station Number	JANUARY 1970							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133								
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	2,460	144 a	2,380	1,870		15	16	12 a
SUISUN BAY AT PORT CHICAGO	E0B80342023			289	48 a		25		25 a
SUISUN BAY AT NICHOLS	E0B80301590								20 a
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	20 de	18 d	25		28		22	16
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510	4	4 d	7	7	4	4	4	

*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 1970							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133		1,270	1,700	1,470	1,830 de	1,610		
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078		14 bd	144	21	123	510		
SUISUN BAY AT PORT CHICAGO	E0B80342023	12	20	18 a	23	20	20	39	
SUISUN BAY AT NICHOLS	E0B80301590	13 a	18	14	14		16	17	
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	9			20		23		
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510								

Station	Station Number	MARCH 1970							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	3,270			1,720	2,590	5,930		6,960
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078		87 e	35 a	856 a	1,630 a	3,730 a		1,170 ae
SUISUN BAY AT PORT CHICAGO	E0B80342023	30	28	19	26	19	545	73 a	1,840
SUISUN BAY AT NICHOLS	E0B80301590	19	20	20	18	16	101		1,800
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	18			29		19 a	21 a	
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510								

Station	Station Number	APRIL 1970							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	8,520		7,960	8,470			10,900	9,810 e
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	5,190 a	6,380 a	5,110 a	7,750 ae	6,040 a	5,360	9,780	7,100 e
SUISUN BAY AT PORT CHICAGO	E0B80342023		3,790	1,760 a	1,170		6,560	3,840 a	
SUISUN BAY AT NICHOLS	E0B80301590	2,560	3,120		1,600	4,660	5,610	5,380	2,870
SACRAMENTO RIVER AT PITTSBURG	B9D80231530		82 ab	125		170	281 a	709	
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510								

Station	Station Number	MAY 1970							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	11,900	12,100	11,000	9,270 e		12,400	12,200	12,100 e
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	7,610	6,280 a	8,660	5,530 e	10,000	9,250	10,100	7,450 a
SUISUN BAY AT PORT CHICAGO	E0B80342023	3,010 a	3,980 a		4,250 e	7,180	4,100 a	6,210	5,360
SUISUN BAY AT NICHOLS	E0B80301590	3,550	5,870	3,960	3,030 e	6,720	2,480 a	5,070	3,030 e
SACRAMENTO RIVER AT PITTSBURG									
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510								

*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 1970							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	7,870 e	11,900	10,400	7,040 a	10,900 a	12,600	12,900	9,450 a
CARQUINEZ STRAIT AT MARTINEZ	E0B80190278	8,660	10,900		9,200 e	8,250 a	11,700	8,870 a	5,350 a
SUISUN BAY AT PORT CHICAGO	E0B80342023	6,700	8,010	4,540	6,620 e	7,940	5,410 a		6,450 d
SUISUN BAY AT NICHOLS	E0B80301590	6,070	5,820	3,590	2,670 a	5,530	6,330	4,850	5,950 e
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	637 a	849 a		683 a	684 a		1,080 a	
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510								

Station	Station Number	JULY 1970							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133		11,400	10,100	11,600 a	12,700		14,300 bd	13,500 e
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078		8,980 a		10,800 e	7,510 a		11,000	10,800 e
SUISUN BAY AT PORT CHICAGO	E0B80342023		7,500	5,820	7,260 e	9,260	5,980	3,940 abd	7,610 e
SUISUN BAY AT NICHOLS	E0B80301590	6,590	5,360	5,220	6,870 e	7,260	4,240 ad	6,300	6,900
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	898 a		1,120 abd		1,270 a			
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510								

Station	Station Number	AUGUST 1970							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	11,800		11,500	13,000 e	10,100	13,200	11,300 e	
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	10,600	9,060	7,220	7,150 a	9,300	7,780 a	6,560 a	8,790
SUISUN BAY AT PORT CHICAGO	E0B80342023	4,630 a	5,510	4,380 abd	8,000 e	5,920 a	3,180 bd	5,920 e	5,920
SUISUN BAY AT NICHOLS	E0B80301590	5,850	4,480		7,390 e	5,480			4,200
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	1,110 a	546		1,150 a	1,080 abd	947 ad		521 a
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510								

Station	Station Number	SEPTEMBER 1970							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	9,300	5,510	5,700	7,170 a	10,600	5,160		
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	7,830	8,200	6,340 a	5,580 a	4,160 a	3,380 a	6,310 b	6,320 a
SUISUN BAY AT PORT CHICAGO	E0B80342023	4,410	3,840	4,390	1,980	1,870 abd	1,550	2,800 b	3,570
SUISUN BAY AT NICHOLS	E0B80301590	2,630	2,970	4,410	2,450	1,670		1,080 b	
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	352 abd	232	192 ad	167 a	139 bd	81	75 a	123
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441510								

*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-5

NUTRIENTS IN SURFACE WATER

Abbreviations and Chemical Codes

Nitrogen Series

NO_3	-	Nitrate (unfiltered)
NO_2	-	Nitrite (unfiltered)
Org	-	Organic Nitrogen (unfiltered)
NH_3	-	Ammonia (unfiltered)
Total	-	Total Nitrogen (unfiltered)

Phosphorus Series

Ortho	-	Ortho-Phosphate (filtered)
Hydro	-	Hydrolizable Phosphates (filtered)
Total	-	Total Phosphorus (unfiltered)

Miscellaneous Nutrients

KN	-	Kjeldahl Nitrogen as N
DON	-	Dissolved Organic Nitrogen as N
PO_4	-	Unfiltered Ortho-Phosphates as P
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	-	McClellan Air Force Base Laboratory, used by U. S. Bureau of Reclamation
5050	-	Department of Water Resources Laboratory at Bryte

TABLE D-5 (CONT)

NUTRIENTS IN SURFACE WATER

Date Time	Nutrients (Mg/L)								Miscellaneous Nutrients			Samp	Lab
	Nitrogen Series as N					Phosphorus Series as P							
	NO_3	NO_2	Org	NH_3	Total	Ortho	Hydro	Total	Code	Value	UR		
DO 1100.00 BRANCIFORTE CREEK AT SANTA CRUZ													
03-17-70 0720						0.13						5050	5050
08-04-70 1110	0.64					0.31						5050	5050
DO 1180.01 SAN LORENZO RIVER AT PARADISE PARK													
03-16-70 1410						0.10						5050	5050
08-04-70 1015	0.14					0.16						5050	5050
DO 1200.00 SAN LORENZO RIVER AT BIG TREES													
11-18-69 0930	0.21		0.1	0.01		0.15		0.18				5050	5050
DO 1220.01 ZAYANTE CREEK AT FELTON													
03-16-70 1615						0.19						5050	5050
08-04-70 0930	0.55					0.34						5050	5050
DO 1498.01 SAN LORENZO RIVER AT BOULDER CREEK													
03-16-70 1545						0.05						5050	5050
08-04-70 0850	0.07					0.07						5050	5050
DO 2020.00 APTOS CREEK BELOW VALENCIA CREEK NEAR APTOS													
03-17-70 0820						0.12						5050	5050
08-04-70 1210	0.08					0.21						5050	5050
DO 3100.00 SOQUEL CREEK AT SOQUEL													
03-17-70 0800						0.06						5050	5050
08-04-70 1250	0.09					0.14						5050	5050

TABLE D-5 (CONT)

NUTRIENTS IN SURFACE WATER

Date Time	Nutrients (Mg/L)								Miscellaneous Nutrients			Somp	Lab
	Nitrogen Series as N					Phosphorus Series as P							
	NO_3	NO_2	Org	NH_3	Total	Ortho	Hydro	Total	Code	Value	UR		
D0 4010.01 SCOTT CREEK AT HIGHWAY 1 NEAR DAVENPORT													
03-17-70 0930						0.07						5050	5050
08-04-70 0845	0.09					0.15						5050	5050
D1 1075.30 PAJARO RIVER AT THURWACHTER ROAD													
05-05-70 1635	3.8					0.01			KN	00.63	M	5050	5050
08-25-70 1030	1.9					0.04			KN	000.7	M	5050	5050
D1 3150.30 ELKHORN SLOUGH AT HIGHWAY 1													
05-05-70 1700	0.25					0.02			KN	00.20	M	5050	5050
D2 1006.30 TEMBLADERO SLOUGH AT NASHUA ROAD													
05-05-70 1715	9.9					1.6			KN	004.0	M	5050	5050
08-25-70 1135	0.01					1.3			KN	003.5	M	5050	5050
D2 1006.60 TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN													
08-25-70 1230	0.23					0.06			KN	005.6	M	5050	5050
D2 1010.20 SALINAS RECLAMATION CANAL AT BORONDA ROAD													
05-05-70 1530	9.9					2.0			KN	006.8	M	5050	5050
08-25-70 1225	20					0.92			KN	0037.	M	5050	5050
D2 1015.50 SALINAS RECLAMATION CANAL AT END OF MERCED STREET													
05-05-70 1455	5.2					0.91			KN	002.4	M	5050	5050
08-25-70 1045	5.2					0.94			KN	001.6	M	5050	5050
D2 1020.70 SALINAS RECLAMATION CANAL AT AIRPORT WAY													
05-05-70 1415	16					1.5			KN	002.3	M	5050	5050
08-25-70 1020	21					2.2			KN	002.9	M	5050	5050

TABLE D-5 (CONT)

NUTRIENTS IN SURFACE WATER

Date Time	Nutrients (Mg/L)								Miscellaneous Nutrients			Samp	Lab
	Nitrogen Series as N					Phosphorus Series as P							
	NO_3	NO_2	Org	NH_3	Total	Ortho	Hydro	Total	Code	Value	UR		
D2 1030.30 BLANCO DRAIN AT PUMP LIFT													
05-05-70 1555	2.3					1.4			KN	006.0	M	5050	5050
08-25-70 1300	2.0					1.6			KN	001.6	M	5050	5050
D2 1150.30 SALINAS RIVER AT BLANCO ROAD													
05-05-70 1610	4.5					3.5			KN	002.5	M	5050	5050
08-25-70 1325	2.6					6.8			KN	009.0	M	5050	5050
D2 1208.30 BLANCO DRAIN AT HITCHCOCK ROAD													
10-23-70 --						1.5	0.0					5050	5050
D2 1220.00 SALINAS RIVER NEAR SPRECKELS													
05-05-70 1640	7.2					4.0			KN	004.6	M	5050	5050
08-25-70 1535	2.0					2.4			KN	002.8	M	5050	5050
D4 1007.60 PACIFIC OCEAN AT CARMEL S.T.P. OUTFALL													
05-05-70 1530	0.18					0.21			KN	00.83	M	5050	5050
D4 1008.50 CARMEL RIVER NEAR MOUTH													
05-05-70 1510	0.00					0.03			KN	00.21	M	5050	5050
08-25-70 1345	0.00					0.06			KN	000.6	M	5050	5050
D4 1095.10 CARMEL RIVER AT BERONDA ROAD													
05-05-70 1410	0.00					0.01			KN	00.15	M	5050	5050
D4 3800.50 SAN JOSE CREEK AT HIGHWAY 1													
05-05-70 1445	0.18					0.09			KN	00.16	M	5050	5050

TABLE D-5 (CONT)

NUTRIENTS IN SURFACE WATER

Date Time	Nutrients (Mg/L)								Miscellaneous Nutrients			Samp	Lab
	Nitrogen Series as N					Phosphorus Series as P							
	NO_3	NO_2	Org	NH_3	Total	Ortho	Hydro	Total	Code	Value	UR		
0 B 735.0 215.0 SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)													
2-15-69 1510	0.49		0.0	0.12		0.19	0.07	0.26				5050	5050
2-25-70 1000	0.39		0.1	0.17		0.16	0.03	0.37				5050	5050
3-24-70 0910	0.26		0.4	0.06		0.18	0.07	0.26				5050	5050
5-28-70 1440	0.42		0.4	0.06		0.35	0.03	0.42				5050	5050
7-22-70 0900	0.57		0.4	0.00		0.36	0.00	0.47				5050	5050
0 B 736.2 211.6 SAN FRANCISCO BAY AT SAN MATEO BRIDGE													
6-22-70 0945	0.48		0.0	0.00		0.32	0.03	0.46				5050	5050
8-11-70 1045	0.50		0.5	0.00		0.34	0.05	0.43				5050	5050
9-17-70 0700	0.24		0.1	0.00		0.31	0.00	0.34				5050	5050
0 B 748.1 222.4 SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND													
2-05-69 1630	0.21		0.0	0.11		0.05	0.02	0.08				5050	5050
2-25-70 1140	0.21		0.0	0.13		0.05	0.00	0.18				5050	5050
3-24-70 1045	0.24		0.0	0.00		0.05	0.03	0.08				5050	5050
5-28-70 1535	0.26		0.3	0.00		0.09	0.00	0.11				5050	5050
6-22-70 1200	0.27		0.0	0.00		0.09	0.01	0.19				5050	5050
7-22-70 1030	0.38		0.3	0.00		0.14	0.00	0.14				5050	5050
8-11-70 1150	0.45		0.4	0.00		0.09	0.03	0.18				5050	5050
9-17-70 0900	0.24		0.2	0.00		0.08	0.00	0.08				5050	5050
0 B 757.7 226.2 SAN PABLO STRAIT WEST OF THE BROTHERS													
2-25-70 1315	0.25		0.3	0.72		0.05	0.00	0.16				5050	5050

TABLE D-5 (CONT)

NUTRIENTS IN SURFACE WATER

Date Time	Nutrients (Mg/L)								Miscellaneous Nutrients			Samp	Lab
	Nitrogen Series as N					Phosphorus Series as P							
	NO_3	NO_2	Org	NH_3	Total	Ortho	Hydro	Total	Code	Value	UR		
EO B 757.7 226.2 SAN PABLO STRAIT WEST OF THE BROTHERS (Continued)													
03-24-70 1145	0.13		0.3	0.02		0.04	0.03	0.07				5050	5050
05-28-70 1735	0.19		0.6	0.04		0.05	0.01	0.10				5050	5050
06-22-70 1300	0.31		0.0	0.00		0.09	0.00	0.22				5050	5050
07-22-70 1130	0.42		0.5	0.01		0.09	0.00	0.14				5050	5050
08-11-70 1320	0.46		0.4	0.00		0.08	0.02	0.14				5050	5050
09-17-70 1015	0.27		0.4	0.00		0.08	0.00	0.14				5050	5050
EO B 802.3 207.1 SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ													
10-21-69 1325	0.20		0.50	0.07		0.08			DON	00.50	M	5001	5006
									PO_4	00.32	M	5001	5006
11-20-69 1120	0.20		0.17	0.04		0.06			DON	00.15	M	5001	5006
									PO_4	00.38	M	5001	5006
02-11-70 0810	0.30		0.45	0.09		0.06			DON	00.27	M	5001	5006
									PO_4	00.48	M	5001	5006
03-16-70 1035	0.32		0.30	0.05		0.08			DON	00.30	M	5001	5006
									PO_4	00.29	M	5001	5006
04-16-70 1215	0.29		0.58	0.06		0.08			DON	00.53	M	5001	5006
									PO_4	00.38	M	5001	5006
05-18-70 1450	0.30		0.41	0.02		0.10			DON	00.21	M	5001	5006
									PO_4	00.25	M	5001	5006
06-15-70 1420	0.05		0.05	0.02		0.06			DON	00.25	M	5001	5006
									PO_4	00.03	M	5001	5006
07-15-70 1455	0.14		0.80	0.08		0.13			DON	00.28	M	5001	5006
									PO_4	00.49	M	5001	5006
08-13-70 1425	0.09		0.52	0.03		0.06			DON	00.26	M	5001	5006
									PO_4	00.30	M	5001	5006
09-09-70 1230	0.05		<0.01	<0.005		0.08			DON	00.01	MY	5001	5006
									PO_4	00.59	M	5001	5006
EO B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND													
10-21-69 1610	0.20		0.26	0.03		0.08			DON	00.22	M	5001	5006
									PO_4	00.25	M	5001	5006
11-20-69 1350	0.10		0.04	0.02		0.07			DON	00.04	M	5001	5006
									PO_4	00.43	M	5001	5006

TABLE D-5 (CONT)

NUTRIENTS IN SURFACE WATER

Date Time	Nutrients (Mg/L)								Miscellaneous Nutrients			Samp	Lab
	Nitrogen Series as N					Phosphorus Series as P							
	NO_3	NO_2	Org	NH_3	Total	Ortho	Hydro	Total	Code	Value	UR		
0 B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND (Continued)													
2-12-70 0840	0.30		0.18	0.14		0.05			DON	00.18	M	5001	5006
									PO_4	00.52	M	5001	5006
3-16-70 1200	0.29		0.11	0.02		0.05			DON	00.11	M	5001	5006
									PO_4	00.25	M	5001	5006
4-16-70 1310	0.36		0.49	0.06		0.07			DON	00.38	M	5001	5006
									PO_4	00.54	M	5001	5006
5-18-70 1550	0.20		0.50	0.05		0.11			DON	00.25	M	5001	5006
									PO_4	00.45	M	5001	5006
6-15-70 1530	<0.05		0.50	0.05		0.06			DON	00.40	M	5001	5006
									PO_4	00.48	M	5001	5006
7-15-70 1550	0.07		0.53	<0.005		0.07			DON	00.02	M	5001	5006
									PO_4	00.87	M	5001	5006
8-13-70 1520	0.07		1.10	0.01		0.08			DON	00.31	M	5001	5006
									PO_4	00.75	M	5001	5006
9-09-70 1335	0.05		<0.01	<0.005		0.09			DON	00.01	MY	5001	5006
									PO_4	00.49	M	5001	5006
0 B 803.2 204.8 SUISUN BAY ABOVE AVON PIER													
3-16-70 1105	0.40		0.32	0.10		0.06		0.07				5001	5006
6-17-70 1530	<0.05		0.44	<0.005		0.01			PO_4	00.49	M	5001	5006
9-11-70 1325	0.40		0.60	<0.08		0.08		0.11				5001	5006
0 B 803.6 159.3 SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS													
3-19-70 1400	0.40		0.51	0.13		0.05		0.06				5001	5006
6-17-70 1610	<0.05		0.50	<0.05		0.04			PO_4	00.52	M	5001	5006
9-11-70 1420	0.20		0.80	<0.08		0.07		0.10				5001	5006
0 B 804.0 203.0 SUISUN BAY NEAR PRESTON POINT													
3-16-70 1120	0.40		0.26	0.10		0.05		0.08				5001	5006
6-17-70 1545	<0.05		0.41	<0.005		0.04			PO_4	00.53	M	5001	5006
9-11-70 1350	0.30		0.71	<0.08		0.06		0.08				5001	5006

TABLE D-5 (CONT)

NUTRIENTS IN SURFACE WATER

Date Time	Nutrients (Mg/L)								Miscelloneous Nutrients			Samp	Lab
	Nitrogen Series as N					Phosphorus Series as P							
	NO_3	NO_2	Org	NH_3	Total	Ortho	Hydro	Total	Code	Value	UR		
EO B 804.4 156.2 HONKER BAY NEAR WHEELER POINT													
03-19-70 1435	0.40		0.26	<0.08		0.04		0.06				5001	5006
06-17-70 1630	<0.05		0.46	<0.005		0.03			PO_4	00.65	M	5001	5006
09-11-70 1450	0.20		0.46	<0.08		0.08		0.10				5001	5006
EO B 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH													
10-21-69 1215	0.20		0.41	0.06		0.07			DON	00.27	M	5001	5006
									PO_4	00.38	M	5001	5006
11-21-69 1020	0.20		0.20	0.05		0.07			DON	00.03	M	5001	5006
									PO_4	00.67	M	5001	5006
02-11-70 0730	0.20		0.32	<0.005		0.05			DON	00.32	M	5001	5006
									PO_4	00.32	M	5001	5006
03-16-70 0840	0.27		0.23	<0.005		0.06			DON	00.23	M	5001	5006
									PO_4	00.39	M	5001	5006
04-16-70 1130	0.41		0.65	<0.06		0.08			DON	00.54	M	5001	5006
									PO_4	00.51	M	5001	5006
05-18-70 1350	0.30		0.60	0.02		0.09			DON	00.34	M	5001	5006
									PO_4	00.30	M	5001	5006
06-15-70 1335	<0.05		0.37	<0.005		0.04			DON	00.37	M	5001	5006
									PO_4	00.41	M	5001	5006
07-15-70 1420	0.09		1.20	<0.005		0.06			DON	00.29	M	5001	5006
									PO_4	00.86	M	5001	5006
08-13-70 1340	0.11		0.82	0.01		0.08			DON	00.35	M	5001	5006
									PO_4	00.70	M	5001	5006
09-09-70 1140	0.02		<0.01	<0.005		0.09			DON	00.01	MY	5001	5006
									PO_4	00.69	M	5001	5006
EO S 809.2 205.3 CORDELIA SLOUGH AT CYGNUS													
11-06-69 1100	0.30		0.66	0.16		0.01		0.09				5001	5006
02-02-70 1035	1.50		0.63	0.10		0.05		0.13				5001	5006
05-15-70 1130	0.40		0.53	0.10		0.05		0.09				5001	5006
08-10-70 1010	0.20		0.77	<0.08		0.03		0.06				5001	5006

TABLE D-5 (CONT)

NUTRIENTS IN SURFACE WATER

Date Time	Nutrients (Mg/L)								Miscellaneous Nutrients			Samp	Lab
	Nitrogen Series as N					Phosphorus Series as P							
	NO_3	NO_2	Org	NH_3	Total	Ortho	Hydro	Total	Code	Value	UR		
) S 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND													
1-06-69 1124	0.30		0.54	0.24		0.04		0.06				5001	5006
2-02-70 1430	1.50		0.73	0.15		0.07		0.12				5001	5006
5-15-70 1530	0.60		1.10	0.10		0.05		0.10				5001	5006
3-10-70 1400	0.10		0.88	<0.08		0.05		0.09				5001	5006
) S 811.2 158.5 MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD													
1-06-69 1420	0.40		0.50	0.18		0.02		0.05				5001	5006
2-02-70 1400	0.70		0.97	<0.08		0.03		0.06				5001	5006
5-15-70 1400	0.50		0.70	0.20		0.04		0.09				5001	5006
3-10-70 1320	4.00		0.43	<0.08		0.02		0.04				5001	5006
) S 811.5 207.2 CORDELIA SLOUGH AT UPPER END NEAR CORDELIA													
5-15-70 1210	0.30		1.10	0.13		0.05		0.10				5001	5006
3-10-70 1045	0.10		1.40	<0.08		0.04		0.06				5001	5006
) S 813.6 201.2 HILL SLOUGH AT GRIZZLY ISLAND ROAD													
1-06-69 1232	0.70		0.82	0.32		0.42		0.47				5001	5006
2-02-70 1330	1.50		1.40	0.10		0.31		0.36				5001	5006
5-15-70 1330	1.30		2.40	0.13		0.31		0.52				5001	5006
3-10-70 1240	0.50		1.30	<0.08		0.39		0.75				5001	5006

TABLE D-6

PESTICIDES IN SURFACE WATER AND SEDIMENT

Abbreviations and Codes

Pesticides

BHC - Benzene hexachloride

ppDDD - Para para isomer of dichloro diphenyl dichloroethane

DDE - Dichloro diphenyl ethane

ppDDE - Para para isomer of dichloro diphenyl ethane

DDT - Dichloro diphenyl trichloroethane

ppDDT - Para para isomer of dichloro diphenyl trichloroethane

When 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.

Samp - Codes for agency collecting sample

5001 - U. S. Bureau of Reclamation

5050 - Department of Water Resources

Lab - Codes for laboratory performing analysis

5007 - Federal Water Quality Control Administration Laboratory at Alameda

5050 - Department of Water Resources Laboratory at Bryte

TABLE D-6 (Cont.)

PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)		Pesticides in Sediment (micrograms per liter of dry weight)		Samp	Lab
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	12-15-69 1510	BHC	8	ppDDE/Dieldrin	5	5050	5050
			Unknown as DDT	42	Complex chlorinated compounds as DDT	110	5050	5050
			ppDDD	12			5050	5050
			ppDDT	6			5050	5050
		02-25-70 1000	Unknown as DDT	12			5050	5050
		05-28-70 1440	Unknown as DDT	21			5050	5050
		07-22-70 0900	BHC	7			5050	5050
			Unknown as DDT	5			5050	5050
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	09-12-70 0700	No chlorinated pesticides detected		No chlorinated pesticides detected		5050	5050
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	12-15-69 1630	BHC	8	Unknown as DDT	6	5050	5050
			Unknown as DDT	26	Complex chlorinated compounds as DDT	47	5050	5050
			ppDDD	6			5050	5050
			ppDDT	6			5050	5050
		02-25-70 1140	Unknown as DDT	12			5050	5050
		05-28-70 1535	Unknown as DDT	8			5050	5050
		07-22-70 1030	BHC	10			5050	5050
		09-17-70 0900	Complex chlorinated compounds as DDT	260	No chlorinated pesticides detected		5050	5050
EO B 757.7 226.2	SAN PABLO STRAIT WEST OF THE BROTHERS	02-25-70 1315	BHC	5	Lindane	5	5050	5050
					Complex chlorinated compounds as DDT	51	5050	5050
		05-28-70 1735	Unknown as DDT	13			5050	5050
		07-22-70 1130	BHC	4			5050	5050
		09-17-70 1015	No chlorinated pesticides detected		No chlorinated pesticides detected		5050	5050
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	10-30-68 1045	Aldrin	< 3			5001	5007
			BHC	10			5001	5007
			DDE	< 3			5001	5007
			DDT	< 10			5001	5007
			Dieldrin	< 3			5001	5007
			Toxphene	< 100			5001	5007
			Heptachlor	< 3			5001	5007
			Heptachlor Epoxide	< 3			5001	5007
		11-25-68 0920	Aldrin	< 3			5001	5007
			BHC	< 3			5001	5007
			DDE	< 3			5001	5007
			DDT	< 10			5001	5007
			Dieldrin	< 3			5001	5007
			Toxphene	< 100			5001	5007
			Heptachlor	< 3			5001	5007
			Heptachlor Epoxide	< 3			5001	5007
		12-18-68 1245	Aldrin	< 3			5001	5007
			BHC	< 3			5001	5007
			DDE	< 3			5001	5007
			DDT	< 10			5001	5007
			Dieldrin	< 3			5001	5007
			Toxphene	< 100			5001	5007
			Heptachlor	< 3			5001	5007
			Heptachlor Epoxide	< 3			5001	5007
		01-28-69 1055	Aldrin	3			5001	5007
			BHC	10			5001	5007
			DDE	< 3			5001	5007
			DDT	< 10			5001	5007
			Dieldrin	< 3			5001	5007
			Toxphene	< 100			5001	5007
			Heptachlor	3			5001	5007
			Heptachlor Epoxide	< 3			5001	5007
		02-26-69 0955	Aldrin	< 3			5001	5007
			BHC	10			5001	5007
			DDE	< 3			5001	5007

TABLE D-6 (Cont.)

PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)		Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lab
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ (Continued)	02-26-69 0955	DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		03-27-69 0930	Aldrin	3		5001	5007
			BHC	10		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		05-08-69 0725	Aldrin	< 3		5001	5007
			BHC	10		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		07-23-69 1130	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		08-20-69 1040	Aldrin	< 3		5001	5007
			BHC	3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptaehlor Epoxide	< 3		5001	5007
		10-21-69 1325	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		11-20-69 1120	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		02-11-70 0810	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		03-16-70 1035	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		04-16-70 1215	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007

TABLE D-6 (Cont.)

PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)		Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lab
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ (Continued)	05-18-70 1450	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		06-15-70 1420	Aldrin	< 3		5001	5007
			BHC	3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	9		5001	5007
		07-15-70 1455	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		08-13-70 1425	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007
		09-09-70 1230	Aldrin	< 3		5001	5007
			BHC	< 3		5001	5007
			DDE	< 3		5001	5007
			DDT	< 10		5001	5007
			Dieldrin	< 3		5001	5007
			Toxphene	< 100		5001	5007
			Heptachlor	< 3		5001	5007
			Heptachlor Epoxide	< 3		5001	5007

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	GREEN	FLAG	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)																						
12-15-69 1510	1120			960	160/0	F 99/85.7	D 03/5.7	D 08/5.7	D 02/2.9					8		8		C 50/75	C 02/25		5050	5050
02-25-70 1000	2396			1790	606/0	F 99/74.7	D 03/21.3	D 08/4.0						43	2	41		C 50/55.8	C 02/39.5	R 99/4.7	5050	5050
03-24-70 0910	4392			3100	1228/64	F 99/70.5	D 03/25.0	D 02/1.5	D 08/1.5	D 66/1.5				2647	7	40	2600	M 11/98.2	C 50/1.1	C 02/0.3	5050	5050
05-28-70 1440	2182			1800	382/0	F 99/82.5	D 03/16.0	D 08/1.5						104	8	94	2	C 50/49.1	C 02/39.4	R 99/7.7	5050	5050
06-22-70 0945	702			670	0/32	F 99/95.4	D 70/4.6														5050	5050
07-22-70 0900	2812			2300	480/32	F 99/81.9	D 03/17.1	D 65/1.0						86	77	9		C 50/58.2	C 02/31.4	M 01/10.4	5050	5050
EO B 736.2 211.6 SAN FRANCISCO BAY AT SAN MATEO BRIDGE																						
08-11-70 1045	290			290		F 99/100															5050	5050
09-17-70 0700	1252			930	160/162	F 99/74.2	D 66/13.0	D 03/12.8													5050	5050
EO B 748.1 222.4 SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND																						
12-15-69 1630	356			260	96/0	F 99/73.0	D 03/27.0							9		9		C 50/77.8	C 02/22.2		5050	5050
02-25-70 1140	964		32	900	32/0	F 99/93.4	D 03/3.3	G 02/3.3						33	1	32		C 50/63.7	C 02/30.3	C 07/3.0	5050	5050
03-24-70 1045	1288			1000	256/32	F 99/77.6	D 08/12.4	D 03/5.0	D 09/2.5	D 66/2.5				499	5	34	460	M 11/92.2	C 02/4.0	C 50/2.4	5050	5050
05-28-70 1535	1064			1000	64/0	F 99/94.0	D 03/6.0	F 58/Trace						30	6	21	3	C 02/50.0	C 50/20.0	R 99/20.0	5050	5050
06-22-70 1200	992			670	322/0	F 99/67.6	D 03/29.2	D 02/3.2													5050	5050
07-22-70 1030	1000			1000		F 99/100	F 58/Trace							9	1	8		C 02/55.6	C 50/33.3	R 99/11.1	5050	5050
08-11-70 1150	1340			1022	128/190	F 99/73.9	D 66/14.2	D 03/7.1	F 58/2.4	D 09/2.4											5050	5050
09-17-70 0900	1060			900	64/96	F 99/84.9	D 66/9.1	D D3/6.0													5050	5050
EO B 757.7 226.2 SAN PABLO STRAIT WEST OF THE BROTHERS																						
02-25-70 1315	738		32	514	192/0	F 99/61.0	D 03/21.7	F 54/8.7	G 02/4.3	D 08/4.3				65	5	60		C 02/66.2	C 50/24.6	R 99/7.7	5050	5050
03-24-70 1145	1194		64	1000	130/0	F 99/83.7	D 08/10.9	G 02/2.7	G 22/2.7					440	12	98	330	M 11/75.0	C 02/19.3	C 50/3.0	5050	5050
05-28-70 1735	2088			1700	388/0	F 99/81.4	D 03/12.4	D 02/3.1	D 09/3.1	F 58/Trace				28	6	17	5	C 02/46.4	R 99/21.4	M 02/17.9	5050	5050
06-22-70 1300	1648		32	1196	324/96	F 99/66.8	D 03/15.8	F 54/5.8	D 66/3.9	D 08/2.0	D 02/1.9	D 65/1.9	G 22/1.9								5050	5050
07-22-70 1130	1242			830	412/0	F 99/66.8	D 03/30.6	D 02/2.6	F 58/Trace					72	1	69	2	C 02/54.1	C 50/37.5	C 61/4.2	5050	5050
08-11-70 1320	1308			1180	64/64	F 99/90.2	D 03/4.9	D 66/4.9													5050	5050
09-17-70 1015	1940			1620	320/0	F 99/83.5	D 03/16.5														5050	5050

CODES AND ABBREVIATIONS

PHYTOPLANKTON

Total - Total phytoplankton per milliliter
Bl-Gr - Blue Green Algae
Green - Green Algae
Flag - Flagellates
C/P - Centric over Pennate (undifferentiated if no dividing line is shown)

Most Abundant Phytoplankton

Green Algae
G 02 Ankistrodesmus
G 22 Selenastrum

Flagellates
F 54 Dinoflagellates (Dinophyceae)
F 58 Noctiluca (Pseudoprotozid Dinoflagellate)
F 99 Unidentified

Diatoms
Centric
D 02 Coscinodiscus
D 03 Cyclotella
D 08 Skeletonema
D 09 Chaetoceros
Pennate
D 65 Navicula
D 66 Nitzschia
D 70 Synedra

ZOOPLANKTON

Total - Total zooplankton per milliliter
Crust - Crustacea
Misc - Miscellaneous zooplankton

Most Abundant Zooplankton

Rotifers
R 99 Unidentified

Crustacea
C 02 Nauplii
C 07 Crab Zoea (larva)
C 50 Unidentified copepod
C 61 Balanus (Nauplius)

Miscellaneous
M 01 Oligochaetes (Aquatic earthworms)
M 02 Annelid worms
M 11 Eutintinnus (Ciliates)

TABLE D-8

DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

(In Degrees Fahrenheit)

D2 1325.10 SALINAS RIVER AT GONZALES

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	78	68	75	65	65	58	NR	NR	64	59	56	54	NR	NR	NR	NR	70	64	79	58	73	58	NR	NR
2	76	68	74	65	69	59	NR	NR	63	58	56	52	NR	NR	NR	NR	71	62	90	62	75	57	NR	NR
3	74	65	74	66	NR	NR	NR	NR	61	58	57	51	NR	NR	81	54	68	62	83	58	72	58	NR	NR
4	79	62	73	67	NR	NR	NR	NR	58	51	56	53	NR	NR	70	56	67	63	86	56	66	61	NR	NR
5	74	63	68	66	NR	NR	NR	NR	59	53	54	50	NR	NR	68	55	67	60	83	55	66	60	NR	NR
6	74	64	69	65	NR	NR	NR	NR	60	52	56	47	NR	NR	56	50	67	60	83	54	73	62	NR	NR
7	74	63	68	63	NR	NR	NR	NR	60	53	58	50	NR	NR	63	47	67	59	84	54	71	62	NR	NR
8	74	64	68	62	NR	NR	NR	NR	60	53	58	52	67	45	68	50	65	56	84	56	71	60	NR	NR
9	74	64	71	62	NR	NR	NR	NR	58	55	58	51	69	47	68	56	71	58	76	57	70	66	NR	NR
10	75	64	72	62	NR	NR	NR	NR	61	54	59	52	71	50	66	51	69	59	73	58	69	67	NR	NR
11	74	64	73	62	NR	NR	63	60	64	57	58	52	70	46	64	50	68	58	75	59	70	65	78	56
12	72	62	74	64	NR	NR	65	59	63	56	61	53	69	46	66	50	67	56	74	59	69	66	75	55
13	73	64	73	66	NR	NR	63	60	59	55	64	54	60	45	72	55	67	56	75	58	69	65	73	52
14	69	64	74	64	NR	NR	63	60	63	55	65	56	59	44	75	55	64	59	75	58	68	64	69	49
15	69	65	71	69	NR	NR	61	59	62	54	64	54	69	43	78	60	68	57	77	57	67	62	69	51
16	71	66	72	66	NR	NR	64	61	63	53	64	54	64	45	76	61	65	59	79	55	NR	NR	71	51
17	73	67	69	61	NR	NR	65	62	60	54	62	54	68	45	73	59	70	54	80	55	NR	NR	73	54
18	72	63	66	57	NR	NR	64	62	60	51	NR	NR	68	46	69	57	73	53	76	56	NR	NR	73	54
19	72	63	66	57	NR	NR	65	62	61	50	NR	NR	72	50	64	53	75	56	78	59	NR	NR	69	57
20	73	62	66	57	NR	NR	65	63	60	49	NR	NR	67	46	66	49	76	58	76	59	NR	NR	75	53
21	73	63	66	58	NR	NR	67	64	62	52	NR	NR	62	43	69	52	73	59	76	56	NR	NR	74	55
22	73	66	66	58	NR	NR	69	66	62	52	NR	NR	69	45	73	53	71	60	73	53	NR	NR	75	55
23	71	65	66	58	NR	NR	67	65	60	50	NR	NR	70	44	70	58	75	60	NR	54	NR	NR	72	55
24	70	64	65	57	NR	NR	66	64	63	54	NR	NR	72	46	67	58	69	61	NR	NR	NR	NR	73	53
25	73	63	66	56	NR	NR	64	60	62	52	NR	NR	71	47	68	60	66	59	NR	NR	NR	NR	73	53
26	70	67	66	57	NR	NR	63	59	61	53	NR	NR	57	45	66	59	69	59	NR	NR	NR	NR	75	54
27	72	65	66	57	NR	NR	64	61	62	54	NR	NR	68	44	64	58	70	59	NR	NR	NR	NR	NR	NR
28	74	65	67	57	NR	NR	61	57	60	56	NR	NR	64	43	64	56	71	59	NR	NR	NR	NR	NR	NR
29	74	63	67	58	NR	NR	59	54			NR	NR	NR	NR	66	56	72	53	76	55	NR	NR	NR	NR
30	74	64	67	57	NR	NR	61	56			NR	NR	NR	NR	71	57	76	54	73	56	NR	NR	NR	NR
31	75	64			NR	NR	61	56			NR	NR			71	62			73	57	NR	NR		
Max	78		75		NR		NR		64		NR		NR		NR		76		NR		NR		NR	
Min	62		56		NR		NR		49		NR		NR		NR		53		NR		NR		NR	
Avg	69		65		NR		NR		57		NR		NR		NR		64		NR		NR		NR	

NR - No Record

TABLE D-9

DAILY MAXIMUM, MINIMUM AND AVERAGE SPECIFIC CONDUCTANCE

(In Micromhos at 25° C)

DO 1180.01 SAN LORENZO RIVER AT PARADISE PARK

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1				285	210	270	NR	NR	NR	250	250	250	280	270	280	270	215	240
2				290	215	270	NR	NR	NR	250	250	250	290	280	285	280	245	265
3				290	210	270	NR	NR	NR	250	250	250	295	290	295	290	280	285
4				285	230	270	NR	NR	NR	255	250	255	295	295	295	295	225	260
5				345	270	305	NR	NR	NR	255	255	255	300	295	300	275	235	255
6				350	310	325	NR	NR	NR	260	255	255	300	300	300	290	275	285
7				360	340	350	NR	NR	NR	265	260	260	300	300	300	295	290	295
8				365	345	355	NR	NR	NR	265	260	260	305	300	300	300	295	300
9				365	330	355	NR	NR	NR	260	180	215	305	305	305	305	300	305
10				360	300	340	NR	NR	NR	215	180	195	310	305	310	305	305	305
11				350	240	300	NR	NR	NR	230	215	225	310	310	310	310	305	305
12				350	240	285	NR	NR	NR	235	225	230	310	280	300	315	310	310
13				295	245	285	NR	NR	NR	235	215	230	295	270	285	320	315	315
14				290	250	280	NR	NR	NR	215	150	180	300	295	295	320	315	315
15				300	285	290	NR	NR	NR	200	175	190	305	300	305	320	315	320
16				NR	NR	NR	NR	NR	NR	180	145	170	305	300	305	320	305	320
17	345	310	325	NR	NR	NR	NR	NR	NR	185	165	175	300	290	295	305	305	305
18	360	335	355	NR	NR	NR	NR	NR	NR	200	185	195	300	290	295	305	305	305
19	360	235	325	NR	NR	NR	355	200	275	210	200	205	305	300	305	310	305	305
20	360	215	300	NR	NR	NR	220	195	210	210	185	205	310	305	310	310	305	305
21	350	215	280	NR	NR	NR	230	200	215	185	155	165	310	310	310	310	300	310
22	350	270	275	NR	NR	NR	240	205	220	190	165	180	310	310	310	310	310	310
23	275	270	275	NR	NR	NR	250	240	245	200	170	195	315	310	315	310	310	310
24	340	265	300	NR	NR	NR	250	190	220	185	160	170	315	315	315	315	310	310
25	285	220	270	NR	NR	NR	195	180	190	200	185	190	315	315	315	315	310	310
26	280	265	275	NR	NR	NR	215	195	205	210	200	205	315	315	315	315	310	315
27	280	255	275	NR	NR	NR	230	215	225	205	190	190	320	300	315	315	310	315
28	290	235	280	NR	NR	NR	235	230	235	220	205	210	300	270	280	315	310	310
29	295	220	280	NR	NR	NR	240	235	240	240	220	230				315	310	315
30	290	210	275	NR	NR	NR	245	240	245	260	240	250				315	310	315
31	290	210	275				250	245	245	270	260	265				315	310	315

Recorder installed January 16, 1969

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	315	310	315	330	320	325	NR	NR	NR	330	320	325	330	320	325	325	320	320
2	315	310	315	330	325	325	NR	NR	NR	330	320	325	330	320	325	320	320	320
3	315	310	315	330	320	325	NR	NR	NR	330	320	325	330	320	325	325	315	320
4	315	310	315	330	320	325	NR	NR	NR	330	320	325	330	320	325	320	315	320
5	315	315	315	330	325	330	NR	NR	NR	330	320	325	325	320	325	320	320	320
6	320	315	315	330	325	330	NR	NR	NR	330	320	325	325	320	325	330	320	325
7	315	315	315	330	330	330	NR	NR	NR	325	315	325	325	320	325	330	320	325
8	315	315	315	330	325	330	NR	NR	NR	325	315	320	330	320	325	325	320	325
9	320	310	315	330	325	330	320	310	315	325	315	320	330	320	325	325	320	325
10	320	310	315	NR	NR	NR	335	320	325	325	315	320	325	320	325	325	320	325
11	315	315	315	NR	NR	NR	NR	NR	NR	325	320	325	330	320	325	330	320	325
12	315	310	315	NR	NR	NR	NR	NR	NR	325	315	320	330	320	325	330	320	325
13	320	310	315	NR	NR	NR	NR	NR	NR	330	320	325	325	320	325	345	325	335
14	315	315	315	NR	NR	NR	NR	NR	NR	330	320	325	330	320	325	325	325	325
15	315	310	315	NR	NR	NR	325	315	320	330	320	325	330	320	325	330	325	325
16	315	310	315	NR	NR	NR	325	315	320	330	320	325	330	325	325	330	325	325
17	315	310	315	NR	NR	NR	325	320	320	330	320	325	330	320	325	330	325	325
18	315	310	315	NR	NR	NR	325	310	320	330	320	325	330	320	325	325	325	325
19	315	310	315	NR	NR	NR	325	310	320	335	320	325	325	320	325	330	325	325
20	320	315	315	NR	NR	NR	NR	NR	NR	330	320	325	325	320	325	330	320	325
21	325	315	320	NR	NR	NR	NR	NR	NR	330	320	325	330	320	325	325	320	320
22	320	320	320	NR	NR	NR	NR	NR	NR	325	315	320	330	320	325	320	320	320
23	325	320	320	NR	NR	NR	330	325	325	330	315	325	330	320	325	340	320	325
24	325	320	325	NR	NR	NR	330	320	325	325	320	325	330	320	325	330	325	330
25	325	320	325	NR	NR	NR	325	325	325	325	315	325	325	320	320	330	325	330
26	325	320	325	NR	NR	NR	330	325	325	325	320	325	325	320	325	325	325	325
27	325	320	325	NR	NR	NR	330	320	325	325	315	320	325	320	325	330	320	325
28	325	325	325	340	325	330	325	320	325	325	320	325	325	320	320	330	325	325
29	325	320	325	340	325	335	325	320	325	330	320	325	325	320	320	335	330	330
30	325	320	325	NR	NR	NR	330	325	325	330	320	325	325	320	320	330	300	325
31				NR	NR	NR				330	320	325	325	320	320			

NR No Record

TABLE D-9 (CONT)

DAILY MAXIMUM, MINIMUM AND AVERAGE SPECIFIC CONDUCTANCE

(In Micromhos at 25° C)

D2 1325.10 SALINAS RIVER AT GONZALES

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	390	380	385	470	460	465	650	620	635	NR	NR	NR	380	320	350	500	160	330
2	380	360	370	470	440	455	660	620	640	NR	NR	NR	400	340	370	510	180	345
3	380	340	360	460	440	450	790	640	715	NR	NR	NR	400	320	360	600	390	495
4	370	340	355	460	460	460	780	760	770	NR	NR	NR	500	320	410	500	300	400
5	360	360	360	500	460	480	780	760	770	NR	NR	NR	640	390	515	640	220	430
6	370	360	365	480	470	475	790	760	775	NR	NR	NR	700	620	660	670	510	590
7	390	350	370	470	460	465	800	750	775	NR	NR	NR	720	680	700	510	400	455
8	390	380	385	480	460	470	800	740	770	1,050	1,050	1,050	760	680	720	490	410	450
9	380	380	380	500	480	490	800	680	740	1,050	930	990	780	720	750	500	480	490
10	380	370	375	490	480	485	830	780	805	1,050	250	650	780	680	730	510	490	500
11	380	360	370	480	470	475	840	820	830	560	340	455	860	740	800	520	500	510
12	380	360	370	500	460	480	840	800	820	620	310	465	890	800	845	540	490	515
13	360	360	360	500	480	490	840	840	840	590	350	470	880	850	865	550	500	525
14	370	360	365	505	495	500	840	800	820	770	580	675	890	680	785	520	490	505
15	380	360	370	500	485	492	840	800	820	700	210	455	780	660	720	490	460	475
16	380	360	370	510	480	495	840	780	810	330	70	200	870	740	805	470	460	465
17	380	360	370	510	500	505	850	820	835	300	120	210	900	800	850	530	460	495
18	400	380	390	510	490	500	850	820	835	400	260	330	880	740	810	NR	NR	NR
19	440	400	420	510	500	505	840	820	830	280	260	270	920	780	850	NR	NR	NR
20	440	440	440	510	500	505	850	820	835	340	310	325	940	840	890	NR	NR	NR
21	440	440	440	500	500	500	860	840	850	390	340	365	980	860	920	NR	NR	NR
22	450	440	445	500	465	485	880	840	860	400	380	390	990	970	980	NR	NR	NR
23	450	440	445	465	455	460	880	800	840	410	390	400	980	890	935	NR	NR	NR
24	450	440	445	460	450	455	880	600	740	390	250	320	890	480	685	NR	NR	NR
25	440	440	440	500	450	475	900	640	770	340	260	300	500	470	485	NR	NR	NR
26	440	440	440	530	500	515	880	310	595	380	340	360	500	420	460	NR	NR	NR
27	440	440	440	540	520	530	720	480	600	380	330	355	610	400	505	NR	NR	NR
28	440	430	435	600	540	570	740	700	720	440	300	370	610	440	525	NR	NR	NR
29	460	430	445	610	600	605	NR	NR	NR	500	400	450				NR	NR	NR
30	470	460	465	630	600	615	NR	NR	NR	530	450	490				NR	NR	NR
31	470	460	465				NR	NR	NR	560	360	460				NR	NR	NR

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	NR	NR	NR	NR	NR	NR	496	450	473	440	400	420	440	430	435	NR	NR	NR
2	NR	NR	NR	NR	NR	NR	496	476	486	430	370	400	440	420	430	NR	NR	NR
3	NR	NR	NR	1,110	1,030	1,070	491	481	486	420	320	370	440	410	425	NR	NR	NR
4	NR	NR	NR	1,130	1,030	1,080	491	481	486	320	170	245	410	370	390	NR	NR	NR
5	NR	NR	NR	1,080	830	950	521	481	501	280	200	240	380	380	380	NR	NR	NR
6	NR	NR	NR	830	650	740	560	506	533	360	240	300	380	370	375	NR	NR	NR
7	NR	NR	NR	780	670	725	580	560	570	430	330	380	370	370	370	NR	NR	NR
8	1,175	1,160	1,167	670	600	635	575	565	570	450	310	380	370	370	370	NR	NR	NR
9	1,200	1,150	1,175	600	570	585	575	360	467	390	320	355	480	370	425	NR	NR	NR
10	1,175	1,130	1,150	570	560	565	360	355	357	330	290	310	510	480	495	NR	NR	NR
11	1,150	1,125	1,137	640	570	605	360	350	355	300	290	295	480	440	460	470	430	450
12	1,140	1,110	1,125	590	550	570	370	360	365	300	280	290	440	400	420	470	430	450
13	1,150	1,110	1,130	610	570	590	430	365	400	290	270	280	400	370	385	460	410	435
14	1,150	1,000	1,075	610	590	600	445	430	437	270	270	270	370	350	360	450	430	444
15	1,120	1,080	1,100	600	580	590	440	430	435	290	250	270	350	350	350	430	420	425
16	1,110	1,090	1,100	630	590	610	590	410	500	360	260	310	NR	NR	NR	420	410	415
17	1,100	1,050	1,075	630	600	615	450	420	435	430	360	395	NR	NR	NR	410	330	370
18	1,060	1,030	1,045	630	580	605	490	430	460	440	380	410	NR	NR	NR	370	330	350
19	1,050	1,000	1,025	605	560	583	500	490	495	380	330	355	NR	NR	NR	370	330	350
20	1,050	980	1,015	560	540	550	500	490	495	360	350	355	NR	NR	NR	420	360	390
21	1,100	960	1,030	550	490	520	500	480	490	370	280	325	NR	NR	NR	420	360	390
22	1,070	1,000	1,035	500	400	450	490	480	485	340	250	295	NR	NR	NR	370	330	350
23	1,040	1,000	1,020	410	390	400	510	380	445	340	320	330	NR	NR	NR	350	330	340
24	1,030	860	945	420	400	410	410	400	405	NR	NR	NR	NR	NR	NR	350	340	345
25	1,050	860	955	400	385	392	400	400	400	NR	NR	NR	NR	NR	NR	350	330	340
26	1,090	860	975	458	400	430	400	380	390	NR	NR	NR	NR	NR	NR	390	340	365
27	1,100	900	1,000	458	438	448	390	380	385	NR	NR	NR	NR	NR	NR	NR	NR	NR
28	1,100	900	1,000	448	433	440	480	320	400	NR	NR	NR	NR	NR	NR	NR	NR	NR
29	NR	NR	NR	443	433	438	470	440	455	440	370	405	NR	NR	NR	NR	NR	NR
30	NR	NR	NR	438	423	430	450	430	440	440	440	440	NR	NR	NR	NR	NR	NR
31				450	423	436				440	440	440	NR	NR	NR			

NR - No Record

DAILY MAXIMUM, MINIMUM AND AVERAGE SPECIFIC CONDUCTANCE

(In Micromhos at 25° C)

F9 1100.00 RUSSIAN RIVER NEAR GUERNEVILLE

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																275	268	270
29																278	274	276
30																280	276	278
31																286	278	280

Station installed March 27, 1970.

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	283	279	281	323	318	320	350	321	335	292	284	288	271	264	268	279	270	273
2	295	280	286	324	320	322	352	325	338	288	282	286	273	266	270	271	269	270
3	286	282	284	325	320	322	342	329	336	286	280	284	276	272	274	271	266	268
4	292	286	290	330	318	325	338	320	328	282	278	280	276	265	270	270	264	268
5	296	290	293	330	320	325	323	318	320	281	273	277	365	266	285	274	268	271
6	315	296	306	330	322	325	318	299	312	274	270	272	352	268	305	274	269	272
7	342	315	330	329	323	328	310	303	307	274	264	269	470	300	355	272	269	271
8	344	334	340	333	328	330	308	300	304	269	264	266	470	310	365	272	268	270
9	352	344	350	335	328	332	315	298	305	272	266	270	400	285	332	272	260	267
10	366	352	358	346	325	330	315	300	307	275	268	272	332	266	288	266	258	263
11	390	330	365	355	336	344	300	295	297	280	270	275	292	250	268	262	256	260
12	425	349	370	360	338	348	298	291	296	282	278	280	294	250	270	260	256	258
13	565	425	530	350	330	338	300	297	298	285	280	282	395	250	310	265	260	263
14	830	565	780	340	326	332	319	300	305	288	280	284	252	248	250	265	258	262
15	840	760	810	342	328	334	310	300	306	293	270	280	314	248	260	290	262	270
16	780	310	506	350	330	338	308	302	305	270	260	264	312	250	376	300	290	297
17	348	314	325	370	336	345	310	302	305	263	258	260	423	298	390	300	290	296
18	340	313	325	351	342	346	318	301	308	262	256	260	540	328	390	300	292	297
19	360	340	350	351	346	349	310	300	305	274	261	268	470	354	390	300	297	298
20	380	360	368	356	337	352	310	300	306	278	272	275	432	316	350	304	300	301
21	380	320	356	358	351	355	310	298	304	315	278	286	355	276	305	310	300	304
22	328	313	318	361	356	359	312	302	308	280	267	274	325	272	285	315	300	306
23	330	312	320	363	360	362	308	297	303	278	271	275	296	268	276	320	315	318
24	330	312	315	368	360	364	301	294	298	276	269	273	280	268	272	320	316	318
25	346	317	322	372	360	367	302	297	300	271	268	270	272	264	267	320	314	318
26	360	315	330	368	360	364	303	294	299	274	270	272	266	262	264	318	311	315
27	340	315	322	379	361	367	301	297	299	276	272	274	308	264	272	318	309	313
28	338	314	322	385	365	372	302	298	300	274	264	269	270	267	269	312	298	304
29	332	318	322	402	380	390	334	296	308	270	266	269	271	269	270	303	294	298
30	323	318	320	415	374	400	324	290	302	270	264	268	273	270	270	302	298	300
31				374	320	338				272	265	268	274	270	272			

Appendix E

GROUND WATER QUALITY

INTRODUCTION

This appendix presents ground water quality data collected during the period from October 1, 1969, through September 30, 1970. 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 1970 water year, 234 wells were sampled in 29 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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	SAN FRANCISCO BAY REGION 2-00.00	
2-01.00	Petaluma Valley	121
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2-02.01	Napa Valley	122
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	CENTRAL COASTAL REGION 3-00.00	
3-02.00	Pajaro Valley	128
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3-04.00	Salinas Valley	
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3-04.05	Upper Valley Area	130
3-04.08	Seaside Area	130
3-04.09	Langley Area	130
3-04.10	Corral De Tierra Area	130
3-80.00	Miscellaneous Area	131

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

An explanation of column headings follows:

The Lab and Sampler agency codes are as follows:

2100 - Monterey County Flood Control and Water Conservation District

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

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		64	7.8	645	76	23	42		0	352		6.8						284
7-15-70	5050		7.5	645	3.79	1.88	1.83			5.77		0.19						0
1030	5050				51	25	24											
14N/12W-26K01 M		63	7.7	396	27	30	14		0	191		15						191
7-15-70	5050		7.3	400	1.35	2.47	0.61			3.13		0.42						35
1100	5050				30	56	14											
16N/12W-05D02 M		62	8.0	290	13	17	24		0	158		15						101
7-15-70	5050		7.0	285	0.65	1.37	1.04			2.59		0.42						0
0930	5050				21	45	34											
16N/12W-09Q01 M			8.1	410	27	19	42		0	254		8.2						147
7-15-70	5050		7.7	420	1.35	1.59	1.83			4.16		0.23						0
0900	5050				28	33	39											
SANEL VALLEY 1-16.00																		
12N/11W-02F01 M		63	7.9	351	37	19	9.8		0	201		4.4						171
7-15-70	5050		7.8	350	1.85	1.57	0.43			3.29		0.12						7
1345	5050				48	41	11											
13N/11W-18E01 M		60	7.3	408	27	24	25		0	214		21						166
7-15-70	5050		7.0	410	1.35	1.97	1.09			3.51		0.59						0
1215	5050				30	45	25											
13N/11W-30H01 M			8.0	388	31	30	11		0	178		8.4						200
7-15-70	5050		7.0	395	1.55	2.45	0.48			2.92		0.24						54
1300	5050				34	55	11											
ALEXANDER VALLEY 1-17.00																		
09N/08W-07Q01 M		80	8.2	577	3.8	1.6	132		0	311		39						16
7-16-70	5050		8.2	600	0.19	0.13	5.74			5.10		1.10						0
1215	5050				3	2	95											
09N/09W-01P01 M		53	7.8	360	30	24	7.6		0	183		6.4						176
7-16-70	5050		7.0	360	1.50	2.02	0.33			3.00		0.18						26
1115	5050				39	52	9											
10N/09W-26L01 M		63	8.3	578	31	56	11		0	324		9.7						307
7-16-70	5050		7.4	600	1.55	4.58	0.48			5.31		0.27						42
1100	5050				24	69	7											
11N/10W-28N01 M			8.2	388	45	21	9.6		0	233		7.6						198
7-15-70	5050		7.3	395	2.24	1.72	0.42			3.82		0.21						7
1615	5050				51	39	10											
SANTA ROSA VALLEY 1-18.00																		
SANTA ROSA AREA 1-18.01																		
06N/07W-18R01 M			7.9	712	50	37	54		0	324		50						279
7-17-70	5050		7.3	725	2.50	3.07	2.35			5.31		1.41						13
0945	5050				31	39	30											
06N/08W-03B01 M			8.1	472	29	28	19		0	140		62						190
7-16-70	5050		7.5	490	1.45	2.35	0.83			2.29		1.75						75
1745	5050				31	51	18											
07N/07W-15C01 M			8.3	252	13	12	22		0	151		6.9						84
7-17-70	5050		7.5	255	0.65	1.03	0.96			2.47		0.19						0
0900	5050				25	39	36											
07N/08W-05G01 M		69	7.8	719	39	39	41		0	177		68						260
7-16-70	5050		7.0	750	1.95	3.24	1.78			2.90		1.92						115
1630	5050				28	46	26											
07N/08W-30P01 M		63	7.4	1050	63	60	56		0	217		137						404
7-16-70	5050		7.0	1080	3.14	4.93	2.44			3.56		3.86						226
1700	5050				30	47	23											
07N/09W-09F01 M		67	7.4	151	8.9	4.6	16		0	58		13						41
7-16-70	5050		6.8	161	0.44	0.38	0.70			0.95		0.37						0
1545	5050				29	25	46											
HEALDSBURG AREA 1-18.02																		
09N/10W-01C01 M			7.9	204	13	9.4	19		0	118		6.8						71
7-16-70	5050		7.3	205	0.65	0.77	0.83			1.93		0.19						0
1345	5050				29	34	37											

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		61	7.6	186	13	8.4	12	0.5	0	80	9.2	7.0	5.1		0.4		121	67
5-19-70	5050		6.1	185	0.65	0.69	0.52	0.01		1.31	0.19	0.20	0.08					1
0930	5050				35	37	28	0		74	11	11	4					
13N/14W-11A01 M		65	---	---														
5-19-70	--		6.9	228														
0830	5050																	
14N/14W-18R02 M		58	6.8	101	4.3	2.6	13	0.3	0	35	1.2	12	1.8		0.3		82	21
5-19-70	5050		5.9	106	0.21	0.21	0.56	0.01		0.57	0.02	0.34	0.03					0
1045	5050				21	21	57	1		59	2	36	3					
14N/14W-19B01 M		61	---	---														
5-19-70	--		6.3	210														
1115	5050																	
14N/14W-34G06 M		62	---	---														
5-19-70	--		7.3	575														
1015	5050																	
POINT ARENA 1-20.00																		
12N/16W-18K01 M		57	7.0	390					0	9		52	96					77
5-19-70	5050		5.6	395						0.15		1.47	1.55					70
1330	5050																	
12N/17W-12L01 M		57	7.3	125					0	26		17						11
5-19-70	5050		5.9	130						0.43		0.48						0
1420	5050																	
13N/16W-31M01 M		69	7.3	406	21	5.7	50	2.3	0	51	12	83	14		0.3		257	76
5-19-70	5050		6.1	415	1.05	0.47	2.18	0.06		0.84	0.25	2.34	0.22					34
1245	5050				28	12	58	2		23	7	64	6					
13N/17W-24D01 M		61	7.4	266	6.8	4.1	36	1.6	0	20	8.2	53	15		0.3		172	34
5-19-70	5050		6.3	265	0.34	0.34	1.57	0.04		0.33	0.17	1.50	0.24					18
1520	5050				15	15	68	2		15	7	67	11					
13N/17W-25H01 M		57	7.8	410	51	7.0	26	1.1	0	180	17	28	3.8		0.3		237	156
5-18-70	5050		6.5	410	2.54	0.58	1.13	0.03		2.95	0.35	0.79	0.06					8
1500	5050				59	14	26	1		71	8	19	2					
FORT BRAGG TERRACE 1-21.00																		
17N/17W-30F01 M		57	6.8	787	39	24	67	3.2	0	28	8.6	185	58		0.3		451	196
5-19-70	5050		5.7	810	1.95	1.97	2.91	0.08		0.46	0.18	5.22	0.94					173
1800	5050				28	29	42	1		7	2	77	14					
17N/17W-30M01 M		57	7.8	339					0	49		48						74
5-19-70	5050		6.3	340						0.80		1.35						34
1620	5050																	
18N/17W-07K01 M		60	6.9	157	4.3	3.8	20	1.0	0	36	3.0	25	0.0		0.3		86	26
5-20-70	5050		6.3	221	0.21	0.31	0.87	0.02		0.59	0.06	0.70						0
0915	5050				15	22	62	1		44	4	52						
19N/17W-20N01 M		58	7.4	163	7.2	3.6	18	1.8	0	41	5.3	23	1.0		0.4		99	33
5-20-70	5050		5.9	175	0.36	0.30	0.78	0.05		0.67	0.11	0.65	0.02					0
--	5050				24	20	52	4		46	8	45	1					
19N/17W-30G01 M		58	6.9	296	6.6	6.7	39	0.8	0	26	14	60	11		0.3		172	44
5-20-70	5050		5.8	300	0.33	0.55	1.70	0.02		0.43	0.29	1.69	0.18					23
1000	5050				13	21	65	1		17	11	65	7					
19N/17W-30Q01 M		57	8.0	386	7.5	5.2	67	6.8	0	139	7.2	49	0.1		0.5		239	40
5-20-70	5050		6.5	385	0.37	0.43	2.91	0.17		2.28	0.15	1.38	0.00					0
0945	5050				10	11	75	4		60	4	36						
SAN FRANCISCO BAY REGION 2-00.00																		
PETALUMA VALLEY 2-01.00																		
03N/06W-01Q01 M		72	---	1300			172					156						
7-27-70	5050		7.9	1350			7.48					4.40						
1130	5050																	
03N/06W-03C01 M		65	---	4060			364					1200						
7-27-70	5050		7.4	---			15.83					33.85						
1600	5050																	
03N/06W-11B01 M			---	1790			320					342						
7-27-70	5050		7.7	1800			13.92					9.65						
1150	5050																	
03N/06W-16H01 M		66	6.1	175	7.9	5.2	12	4.4	0	26	27	15	1.6		0.0		111	41
7-27-70	5050		6.0	168	0.39	0.43	0.52	0.11		0.43	0.56	0.42	0.02					19
1215	5050				27	30	36	7		31	39	29	1					

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab	pH Field	EC Lab	EC 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-18M01 M		62		---	548									41						
7-27-70	5050			6.8	550									1.16						
1300	5050																			
03N/07W-14F01 M		64	7.5		622		0.0	0.5	141	0.4	0	236	32	62	0.0		0.5		394	2
7-27-70	5050		7.3		610			0.04	6.13	0.01		3.87	0.67	1.75						0
1345	5050							1	99	0		61	11	28						
04N/06W-08E01 M		62		---	985				83					77			2.3			
7-27-70	5050			7.5	1100				3.61					2.17						
1600	5050																			
04N/06W-21Q01 M		72		---	1100				244					140						
7-27-70	5050			7.9	1100				10.61					3.95						
1530	5050																			
04N/06W-33R01 M				---	8640									2960						
7-27-70	5050			7.2	---									83.36						
1445	5050																			
05N/06W-30D01 M				8.3	880		31	19	155		0	414		82						155
7-28-70	5050			8.1	890		1.55	1.55	6.74			6.78		2.31						0
0945	5050						16	16	68											
05N/07W-20L03 M		64		8.2	1200		134	20	92		0	244		212						416
7-28-70	5050			7.0	1300		6.69	1.62	4.00			4.00		5.98						216
0830	5050						54	13	33											
05N/07W-26E01 M				---	772				70					90						
7-28-70	5050			7.5	790				3.04					2.54						
0915	5050																			
05N/07W-34E02 M		65		---	866									70						
7-27-70	5050			8.4	845									1.97						
1645	5050																			
05N/07W-35H01 M		66		7.7	542		38	15	60	2.0	0	240	27	38	6.8		0.2		331	157
7-27-70	5050			7.6	545		1.90	1.24	2.61	0.05		3.93	0.56	1.07	0.11					0
1600	5050						33	21	45	1		69	10	19	2					
NAPA-SONOMA VALLEY 2-02.00																				
NAPA VALLEY 2-02.01																				
03N/03W-18G01 M		65		---	1110									167						
7-29-70	5050			7.5	1125									4.71						
1445	5050																			
03N/03W-18G02 M		65		---	1220									160						
7-29-70	5050			7.3	1275									4.51						
1500	5050																			
03N/04W-05M01 M		62	7.7		1580		33	41	284	8.0	0	672	0.0	200	34		0.4		940	251
7-30-70	5050		7.5		1725		1.65	3.36	12.35	0.20		11.01		5.64	0.55					0
1000	5050						10	19	70	1		64		33	3					
04N/04W-05C01 M				---	303									31						
7-24-70	5050			7.2	300									0.87						
1645	5050																			
04N/04W-05D02 M		68	7.7		734		33	20	90	2.1	0	241	26	82	32		0.0		423	166
7-24-70	5050		7.6		740		1.65	1.67	3.92	0.05		3.95	0.54	2.31	0.52					0
1630	5050						22	23	54	1		54	7	32	7					
04N/04W-12M01 M		68		---	904									132						
7-29-70	5050			7.1	875									3.72						
1345	5050																			
04N/04W-13E01 M		65		---	3150				295					600	164					
7-28-70	5050			7.2	3000				12.83					16.93	2.64					
1545	5050																			
04N/04W-14C02 M		70		---	1540									358						
7-28-70	5050			7.4	1600									10.10						
1615	5050																			
05N/04W-09Q02 M		65		---	481									45						
7-24-70	5050			7.3	475									1.27						
1330	5050																			
05N/04W-11F03 M				---	685									111						
7-24-70	5050			7.7	710									3.13						
0900	5050																			
05N/04W-15E01 M				---	392									34						
7-24-70	5050			7.5	385									0.96						
1300	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
NAPA VALLEY 2-02.01 (Continued)																		
05N/04W-20R02 M		66	7.8	678	30	18	82		0	156		108						151
7-24-70	5050		7.1	690	1.50	1.52	3.57			2.56		3.05						23
1425	5050				23	23	54											
05N/04W-21P02 M			---	2350								477						
7-24-70	5050		8.0	2500								13.46						
1500	5050																	
05N/04W-22M01 M			---	569								33						
7-24-70	5050		7.7	590								0.93						
1545	5050																	
05N/04W-22M02 M		67	7.7	212	8.4	6.8	23		0	77		14						49
7-24-70	5050		6.8	218	0.42	0.56	1.00			1.26		0.39						0
1530	5050				21	28	51											
05N/04W-29H01 M		67	6.5	379	26	15	30	1.5	0	132	23	31	19		0.0		261	127
7-24-70	5050		6.5	380	1.30	1.24	1.30	0.04		2.16	0.48	0.87	0.31					19
1400	5050				34	32	33	1		56	13	23	8					
06N/04W-06P01 M		62	7.9	355	18	28	15		0	134		15						161
7-24-70	5050		6.9	355	0.90	2.32	0.65			2.20		0.42						51
1030	5050				23	60	17											
06N/04W-15Q01 M		64	---	238								7.2						
7-24-70	5050		7.3	240								0.20						
1000	5050																	
09N/07W-25N01 M		83	---	940			166					196		7.0	12			
7-24-70	5050		7.7	950			7.22					5.53						
1130	5050																	
SONOMA VALLEY 2-02.02																		
04N/05W-14D02 M		76	---	971								142						
7-28-70	5050		7.3	1000								4.00						
1500	5050																	
05N/05W-18D02 M		63	---	512								40	38					
7-28-70	5050		7.0	510								1.13	0.61					
1130	5050																	
05N/05W-20R01 M			7.9	804	6.2	2.6	183	1.4	0	440	12	48	0.2		4.4		491	26
7-28-70	5050		8.3	810	0.31	0.21	7.96	0.02		7.21	0.25	1.34	0.00					0
1345	5050				4	2	94	0		82	3	15						
05N/06W-25P02 M		82	7.9	540	2.6	3.5	124	2.6	0	316	7.2	22	0.1		1.2		367	21
7-28-70	5050		8.2	540	0.13	0.29	5.39	0.07		5.18	0.15	0.62	0.00					0
1015	5050				2	5	92	1		87	3	10						
06N/06W-23M02 M			---	491										1.6	1.6			
7-28-70	5050		7.8	490														
1215	5050																	
06N/06W-26E01 M		71	---	411										1.8	2.2			
7-28-70	5050		8.0	405														
1245	5050																	
SUISUN-FAIRFIELD VALLEY 2-03.00																		
03N/01E-04B01 M			---	1440			116					275						
7-21-70	5050		8.1	1500			5.05					7.76						
1800	5050																	
03N/01E-22F02 M			---	1720			331					259						
7-21-70	5050		8.2	1800			14.40					7.31						
1815	5050																	
04N/01E-08F01 M			---	985								160						
7-21-70	5050		7.4	1000								4.51						
1500	5050																	
04N/01W-33A01 M		64	---	3590			681					860						
7-21-70	5050		7.9	4000			29.62					24.26						
1200	5050																	
04N/02W-04D01 M		67	---	1380								72						
7-20-70	5050		7.8	1400								2.03						
1430	5050																	
04N/02W-05Q02 M		67	7.7	869	45	45	81	1.6	0	354	95	67	0.4		0.5		513	298
7-20-70	5050		7.2	900	2.25	3.70	3.52	0.04		5.80	1.98	1.89	0.01					8
1400	5050				24	39	37	0		60	21	19	0					
04N/02W-09H01 M			---	3630								1020						
7-20-70	5050		8.1	3750								28.77						
1600	5050																	

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab	pH Field	EC Lab	EC 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			---		1120									106						
7-20-70	5050		7.9		1175									2.99						
1330	5050																			
04N/03W-13G02 M			---		959									75						
7-20-70	5050		7.5		1025									2.12						
1300	5050																			
05N/01W-25R01 M			---		1690									420						
7-22-70	5050		7.4		1750									11.85						
1400	5050																			
05N/01W-28P01 M			---		705				52					90						
7-21-70	5050		7.4		710				2.26					2.54						
1000	5050																			
05N/01W-30H01 M		65	8.0		1120		88	28	114	0.4	0	348	24	160	48		1.2		644	337
7-22-70	5050		7.5		1180		4.39	2.34	4.96	0.01		5.70	0.50	4.51	0.77					52
1715	5050						38	20	42	0		50	4	39	7					
05N/01W-30J01 M		63	7.4		2240		106	52	309	1.0	0	396	38	540	8.0		5.0		1240	478
7-22-70	5050		7.3		2550		5.29	4.26	13.44	0.02		6.49	0.79	15.23	0.13					153
1645	5050						23	19	58	0		29	3	67	1					
05N/02W-21P03 M		64	---		945				70					60						
7-20-70	5050		7.2		975				3.04					1.69						
1230	5050																			
05N/02W-34P04 M		69	---		1250				123					50						
7-20-70	5050		7.7		1300				5.35					1.41						
1630	5050																			
PITTSBURG PLAIN 2-04.00																				
02N/01E-18D01 M		67	7.8		802		58	29	70	5.2	0	312	43	81	11		0.3		483	264
8-03-70	5050		7.6		800		2.89	2.38	3.04	0.13		5.11	0.90	2.28	0.18					8
1000	5050						34	28	36	2		60	11	27	2					
02N/01W-09D01 M			7.9		2200		73	75	282	7.6	0	381	209	416	12		0.8		1330	492
8-03-70	5050		7.5		2300		3.64	6.19	12.27	0.19		6.24	4.35	11.74	0.19					180
1300	5050						16	28	55	1		28	19	52	1					
02N/01W-12P02 M		68	7.7		1640		61	70	179	9.2	0	328	214	252	1.3		0.4		978	432
8-03-70	5050		7.8		1250		3.04	5.59	7.79	0.24		5.38	4.46	7.11	0.02					163
1045	5050						18	34	47	1		32	26	42	0					
CLAYTON VALLEY 2-05.00																				
01N/01W-04A01 M		62	---		744									35						
7-31-70	5050		7.1		750									0.99						
0900	5050																			
02N/01W-30J01 M			---		1090									64						
7-31-70	5050		7.3		1100									1.80						
1000	5050																			
02N/01W-30K01 M		68	7.8		1230		90	70	86	0.4	0	431	202	75	18		1.0		797	511
7-31-70	5050		7.4		1250		4.49	5.72	3.74	0.01		7.06	4.21	2.12	0.29					158
1025	5050						32	41	27	0		52	31	15	2					
02N/01W-31D01 M			---		1050									111						
7-31-70	5050		7.3		1075									3.13						
1130	5050																			
02N/02W-13P01 M		66	---		954									156						
7-31-70	5050		7.4		975									4.40						
1400	5050																			
02N/02W-26B01 M		69	---		965									146						
7-31-70	5050		7.8		1000									4.12						
1330	5050																			
02N/02W-36J01 M		65	---		1160									127	36					
7-31-70	5050		7.2		1200									3.58	0.58					
1300	5050																			
YGNACIO VALLEY 2-06.00																				
01N/01W-07K01 M			---		2080									191						
7-30-70	5050		7.3		2100									5.39						
1415	5050																			
01N/01W-29G01 M		66	---		2160									331						
7-30-70	5050		7.5		2250									9.34						
1400	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
YGNACIO VALLEY 2-06.00 (Continued)																		
01N/02W-11N01 M		68	---	1250								151	8.0					
7-30-70	5050		7.5	1300								4.26	0.13					
1240	5050																	
01N/02W-13P01 M			7.7	1330	19	113	103	0.3	0	556	106	104	34		1.1		706	513
7-30-70	5050		7.3	1375	0.95	9.30	4.48	0.01		9.11	2.20	2.93	0.55					57
1300	5050				7	63	30	0		61	15	20	4					
02N/02W-36E01 M			---	2660								358						
7-31-70	5050		7.1	3000								10.10						
0800	5050																	
SANTA CLARA VALLEY 2-09.00																		
EAST BAY AREA -- BAY PLAIN 2-09.01																		
02S/03W-08Q01 M			7.9	1770	84	54	189	3.0	0	207	43	439	1.6		0.1		1070	433
9-15-70	5050		---	---	4.19	4.46	8.22	0.08		3.39	0.90	12.38	0.02					263
1000	5100				25	26	48	1		20	6	74	0					
02S/03W-19Q01 M				1010								210						
9-15-70	5050			---								5.92						
--	5100																	
02S/03W-21J01 M			7.3	7040	665	284	434	8.0	0	247	227	2350	19		0.3		6160	2830
9-15-70	5050		---	---	33.18	23.36	18.88	0.20		4.05	4.73	66.29	0.31					2627
--	5100				44	31	25	0		5	6	87	1					
02S/03W-30D02 M			7.6	3360	260	97	269	6.5	0	221	105	928	0.0		0.3		2430	1050
9-15-70	5050		---	---	12.97	8.01	11.70	0.17		3.62	2.19	26.18						869
--	5100				39	24	36	1		11	7	82						
02S/03W-33H03 M				635								34						
9-15-70	5050			---								0.96						
1200	5100																	
02S/03W-34A02 M			8.3	727	65	33	42	0.5	0	284	61	33	65		0.2		480	298
9-15-70	5050		---	---	3.24	2.71	1.83	0.01		4.65	1.27	0.93	1.05					65
1135	5100				42	35	23	0		59	16	12	13					
02S/04W-03E01 M				682								81						
9-15-70	5050			---								2.28						
--	5100																	
03S/02W-19R04 M				1120								110						
9-14-70	5050			---								3.10						
1038	5100																	
03S/02W-30R14 M				1170								112						
9-14-70	5050			---								3.16						
0935	5100																	
03S/03W-01G03 M				921								116						
9-14-70	5050			---								3.27						
1100	5100																	
03S/03W-11P02 M				832								103						
9-14-70	5050			---								2.90						
--	5100																	
03S/03W-13B02 M				1670								126						
9-14-70	5050			---								3.55						
1000	5100																	
03S/03W-24J01 M				485								66						
9-15-70	5050			---								1.86						
0915	5100																	
03S/03W-24Q02 M			7.7	3070	197	128	308	1.4	0	581	176	645	149		0.7		2070	1020
9-14-70	5050		---	---	9.83	10.55	13.40	0.04		9.52	3.66	18.20	2.40					544
1030	5100				29	31	40	0		28	11	54	7					
EAST BAY AREA -- ABOVE HAYWARD FAULT 2-09.01																		
04S/01W-21F02 M				616								75						
9-29-70	5050			---								2.12						
--	5401																	
04S/01W-27P01 M			8.3	1280	48	58	158	2.3	0	482	146	99	29		1.3		678	360
10-09-70	5050		---	---	2.40	4.79	6.87	0.06		7.90	3.04	2.79	0.47					0
--	5401				17	34	49	0		56	21	20	3					
04S/01W-35P03 M				690								48						
9-28-70	5050			---								1.35						
--	5401																	

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab	pH Field	EC Lab	EC 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																				
04S/01W-18H03 M			8.1		1780		72	136	75	2.9	0	253	149	383	2.0		0.5		892	738
10-01-70	5050		---		---		3.59	11.15	3.26	0.07		4.15	3.10	10.80	0.03					530
--	5401						20	62	18	0		23	17	60	0					
04S/01W-28C01 M					685									71						
9-28-70	5050				---									2.00						
--	5401																			
04S/01W-31B03 M					3490									1050						
9-28-70	5050				---									29.62						
--	5401																			
04S/02W-14E02 M					3710									862						
10-14-70	5050				---									24.32						
--	5401																			
04S/02W-27L01 M					595									28						
9-29-70	5050				---									0.79						
1340	5401																			
05S/01W-09J01 M					1360									257						
10-01-70	5050				---									7.25						
--	5401																			
05S/02W-12D01 M			7.2		57600		2690	2260	11400	52	0	172	1860	27300	0.2		0.4		48300	16000
10-21-70	5050		---		---		134.23	185.45	495.90	1.33		2.82	38.74	770.13	0.00					15900
--	5401						16	23	61	0		0	5	95						
EAST BAY AREA -- LOWER AQUIFER 2-09.01																				
04S/01W-28C14 M					697									55						
9-28-70	5050				---									1.55						
--	5401																			
04S/01W-30E03 M					2030									531						
10-01-70	5050				---									14.98						
--	5401																			
04S/01W-33A02 M			8.2		1200		100	35	74	2.8	0	242	86	178	34		0.7		577	393
10-19-70	5050		---		---		4.99	2.86	3.22	0.07		3.97	1.79	5.02	0.55					194
--	5401						45	25	29	1		35	16	44	5					
04S/02W-10C01 M					612									38						
10-01-70	5050				---									1.07						
--	5401																			
04S/02W-12C01 M					573									38						
10-01-70	5050				---									1.07						
--	5401																			
04S/02W-15F03 M					748									72						
10-14-70	5050				---									2.03						
--	5401																			
04S/02W-22P02 M					587									43						
10-05-70	5050				---									1.21						
--	5401																			
04S/02W-24L06 M					979									166						
10-07-70	5050				---									4.68						
--	5401																			
04S/02W-26A01 M					3560									1060						
10-05-70	5050				---									29.90						
--	5401																			
04S/02W-35F01 M					2220									601						
10-01-70	5050				---									16.95						
--	5401																			
05S/01W-05F01 M					2890									868						
10-19-70	5050				---									24.49						
--	5401																			
05S/01W-17A01 M			8.6		520		8.8	1.9	113	0.7	2	279	30	15	0.8		0.3		324	30
9-29-70	5050		---		---		0.44	0.16	4.92	0.02	0.07	4.57	0.62	0.42	0.01					0
1300	5401						8	3	89	0	1	81	11	7	0					
05S/02W-17F03 M					528									24						
10-09-70	5050				---									0.68						
--	5401																			

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time 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																	
06S/01E-17R01 M		8.3	763	53	14	96	1.9	0	321	55	57	13		0.4		395	191
10-14-70 5050		---	---	2.64	1.18	4.18	0.05		5.26	1.15	1.61	0.21					0
1300 2400				33	15	52	0		64	14	20	2					
06S/01E-27C02 M			739								60			1.3			
10-14-70 5050			---								1.69						
1000 2400																	
06S/01W-11B01 M			608								26						
10-26-70 5050			---								0.73						
1430 2400																	
06S/01W-15Q01 M			473								16						
10-26-70 5050			---								0.45						
1400 2400																	
06S/01W-16A01 M		8.3	1040	54	22	119	1.5	0	194	46	203	1.4		0.2		500	223
10-26-70 5050		---	---	2.69	1.77	5.18	0.04		3.18	0.96	5.73	0.02					64
1400 2400				28	18	54	0		32	10	58	0					
06S/01W-27E02 M		8.3	442	45	14	31	1.1	0	231	29	15	0.1		0.1		238	171
10-15-70 5050		---	---	2.25	1.17	1.35	0.03		3.79	0.60	0.42	0.00					0
1230 2400				47	24	28	1		79	12	9						
06S/01W-31B03 M			506								20						
10-28-70 5050			---								0.56						
1300 2400																	
06S/01W-36A01 M			735								55						
10-28-70 5050			---								1.55						
1400 2400																	
06S/02W-09H09 M			526								33						
10-26-70 5050			---								0.93						
1300 2400																	
06S/02W-15N02 M		8.3	785	99	30	30	1.4	0	336	98	42	8.5		0.1		454	369
10-15-70 5050		---	---	4.94	2.43	1.30	0.04		5.51	2.04	1.18	0.14					93
1205 2400				57	28	15	0		62	23	13	2					
06S/02W-20N01 M			705								34						
10-17-70 5050			---								0.96						
1415 2400																	
06S/02W-24M01 M		8.3	1060	120	49	44	1.7	0	360	181	47	62		0.1		658	502
10-26-70 5050		---	---	5.99	4.04	1.91	0.04		5.90	3.77	1.32	1.00					207
1200 2400				50	34	16	0		49	32	11	8					
07S/01E-25A02 M			1020								75						
10-16-70 5050			---								2.12						
0800 2400																	
07S/02E-07Q01 M		8.3	1010	64	44	98	1.9	0	427	96	75	12		0.2		540	340
10-26-70 5050		---	---	3.19	3.60	4.26	0.05		7.00	2.00	2.12	0.19					0
-- 2400				29	32	38	1		62	18	19	1					
07S/01W-35H01 M			457								35						
10-14-70 5050			---								0.99						
1315 2400																	
08S/01E-04F01 M			473								17						
10-20-70 5050			---								0.48						
1130 2400																	
08S/01E-08P03 M			424								27						
10-20-70 5050			---								0.76						
1200 2400																	
08S/01E-10L01 M			602								30						
10-20-70 5050			---								0.85						
1330 2400																	
08S/01E-17D01 M		8.3	450	30	25	26	0.9	0	172	36	22	31		0.1		263	177
10-20-70 5050		---	---	1.50	2.04	1.13	0.02		2.82	0.75	0.62	0.50					36
1306 2400				32	44	24	0		60	16	13	11					
08S/02E-17L01 M		6.3	575	43	38	20	0.8	0	290	41	16	8.8		0.1		320	264
10-28-70 5050		---	---	2.14	3.13	0.87	0.02		4.75	0.85	0.45	0.14					28
1500 2400				35	51	14	0		77	14	7	2					
08S/02E-34A01 M			597								18						
10-20-70 5050			---								0.51						
-- 2400																	
09S/03E-22B03 M		6.2	496	42	24	22	1.5	0	207	43	16	22		0.1		290	205
10-21-70 5050		---	---	2.10	2.00	0.96	0.04		3.39	0.90	0.45	0.35					35
1415 2400				41	39	19	1		66	18	9	7					

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
LIVERMORE VALLEY 2-10.00																		
03S/01E-03Q01 M				1330			160	1.4				184	32		2.2		780	400
9-01-70	5050			---			6.96	0.04				5.19	0.52					
1020	5100						46	0										
03S/01E-06E01 M				1160			133	1.6				2.11	0.2		1.0		624	274
9-04-70	5050			---			5.78	0.04				5.95	0.00					
--	5100						51	0										
03S/01E-09A01 M				736			28	1.6				46	26		0.4		424	377
9-04-70	5050			---			1.22	0.04				1.30	0.42					
1130	5100						14	0										
03S/01E-09L01 M				1230			114	2.3				166	30		2.1		708	428
9-02-70	5050			---			4.96	0.06				4.60	0.48					
1040	5100						36	0										
03S/01E-11E01 M				1200			89	1.9				187	19		0.9		704	454
9-04-70	5050			---			3.87	0.05				5.28	0.31					
--	5100						30	0										
03S/01E-12C01 M				1020			85	1.7				114	18		1.4		594	416
9-04-70	5050			---			3.70	0.04				3.22	0.29					
1000	5100						31	0										
03S/01E-12P01 M				580			24	1.2				24	21		0.3		333	279
9-04-70	5050			---			1.04	0.03				0.68	0.34					
1030	5100						16	0										
03S/01E-20B02 M				701			46	1.4				45	23		0.4		408	296
9-02-70	5050			---			2.00	0.04				1.27	0.37					
1200	5100						25	1										
03S/02E-03K01 M				1100			109	1.9				134	38		1.6		642	374
9-25-70	5050			---			4.74	0.05				3.78	0.61					
--	5100						39	0										
03S/02E-08E01 M				929			130	0.9				102	0.0		1.1		544	170
9-04-70	5050			---			5.66	0.02				2.88						
0950	5100						62	0										
03S/02E-09Q01 M				752			34	1.6				43	21		0.4		396	366
9-02-70	5050			---			1.48	0.04				1.21	0.34					
--	5100						17	0										
03S/02E-11K01 M				798			72	1.7				82	13		1.2		419	225
9-01-70	5050			---			3.13	0.04				2.31	0.21					
1140	5100						41	1										
03S/02E-15B04 M				667			44	1.8				70	38		0.8		385	256
9-01-70	5050			---			1.91	0.05				1.97	0.61					
1245	5100						27	1										
03S/02E-26J01 M				1410			97	1.5				257	74		0.2		802	544
9-01-70	5050			---			4.22	0.04				7.25	1.19					
--	5100						28	0										
03S/02E-30H01 M				549			30	1.3				54	0.6		0.4		289	213
9-04-70	5050			---			1.30	0.03				1.52	0.01					
1100	5100						23	1										
CENTRAL COASTAL REGION 3-00.00																		
PAJARO VALLEY 3-02.00																		
11S/01E-04B01 M		63	8.3	401	31	26	14	1.1	0	205	24	17	0.4		0.0		247	185
7-22-70	5050		---	401	1.55	2.15	0.61	0.03		3.36	0.50	0.48	0.01					17
--	2100				36	49	14	1		77	12	11	0					
11S/02E-09F01 M		--	8.3	258	0.4	0.2	57	0.1	0	113	6.6	18	5.8		0.0		197	2
7-24-70	5050		---	270	0.02	0.02	2.48	0.00		1.85	0.14	0.51	0.09					0
--	2100				1	1	98			71	5	20	4					
12S/01E-24N01 M		--	8.3	1080	41	46	93	17	0	202	93	187	2.0		0.1		556	293
7-27-70	5050		---	1049	2.05	3.80	4.04	0.43		3.31	1.94	5.28	0.03					127
--	2100				20	37	39	4		31	19	50	0					
12S/02E-22L01 M		--	8.1	384	18	18	34	1.4	0	157	1.3	39	3.7		0.1		241	119
4-07-70	5050		---	---	0.90	1.48	1.48	0.04		2.57	0.03	1.10	0.06					0
0900	5050				23	38	38	1		68	1	29	2					
12S/02E-25M01 M		--	6.4	736	65	26	42	1.8	0	88	123	50	105		0.0		525	271
3-05-70	5050		---	---	3.24	2.17	1.83	0.05		1.44	2.56	1.41	1.69					199
1000	5050				44	30	25	1		20	36	20	24					
12S/02E-27F01 M		--	7.6	351	18	13	33	1.8	0	111	6.9	44	6.2		0.0		205	98
3-04-70	5050		---	---	0.90	1.06	1.44	0.05		1.82	0.14	1.24	0.10					7
0940	5050				26	31	42	1		55	4	38	3					

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)																		
12S/03E-29DS1 M		--	7.4	274	11	8.4	29	0.9	0	63	10	29	20		0.0		205	62
3-04-70	5050		---	---	0.55	0.69	1.26	0.02		1.03	0.21	0.82	0.32					10
1015	5050				22	27	50	1		43	9	35	13					
GILROY-HOLLISTER VALLEY 3-03.00																		
SAN BENITO COUNTY 3-03.02																		
13S/05E-03J01 M		70	7.9	1280	59	67	137		0	411		92	10		1.1			421
9-16-70	5050		---	1200	2.94	5.47	5.96			6.74		2.60	0.16					84
0800	5050				20	38	42											
15S/07E-06P01 M		70	7.8	1960	71	116	215		0	496		189	31		1.8			655
9-16-70	5050		---	1700	3.54	9.55	9.35			8.13		5.33	0.50					248
0920	5050				16	42	42											
18S/10E-06L01 M		76	8.2	997	26	105	47		0	564		29	1.6		0.9			496
9-16-70	5050		---	950	1.30	8.61	2.04			9.24		0.82	0.02					34
1420	5050				11	72	17											
18S/10E-09F01 M		70	8.1	985	22	104	42		0	556		26	1.4		0.8			483
9-16-70	5050		---	930	1.10	8.55	1.83			9.11		0.73	0.02					27
1440	5050				10	74	16											
SALINAS VALLEY 3-04.00																		
PRESSURE AREA 3-04.01																		
13S/02E-07R01 M		66	8.3	1060	32	10	180		0	254		166	1.1		0.3			122
7-28-70	5050		---	---	1.60	0.84	7.83			4.16		4.68	0.02					0
--	2100				16	8	76											
13S/02E-16D01 M		66	8.2	1240	64	42	118		0	217		270	13		0.2			331
7-28-70	5050		---	---	3.19	3.42	5.13			3.56		7.61	0.21					153
--	2100				27	29	44											
13S/02E-17H03 M		66	8.1	1620	67	38	197		0	190		411	3.2		0.2			325
7-28-70	5050		---	---	3.34	3.15	8.57			3.11		11.59	0.05					169
--	2100				22	21	57											
13S/02E-17J01 M		66	8.2	485	17	9.1	72		0	133		74	2.7		0.2			80
7-28-70	5050		---	---	0.85	0.75	3.13			2.18		2.09	0.04					0
--	2100				18	16	66											
13S/02E-23L01 M		--	7.2	466	16	11	53	1.7	0	60	3.4	102	6.7		0.0		302	86
3-05-70	5050		---	---	0.80	0.92	2.31	0.04		0.98	0.07	2.88	0.11					37
1045	5050				20	22	57	1		24	2	71	3					
13S/02E-23R01 M		--	7.2	339	9.8	11	39	1.2	0	94	1.6	51	2.1		0.0		229	69
3-05-70	5050		---	---	0.49	0.89	1.70	0.03		1.54	0.03	1.44	0.03					0
1030	5050				16	28	55	1		51	1	47	1					
13S/02E-29N01 M		--	7.9	451	17	11	58	2.1	0	141	316	64	3.2		0.0		288	87
3-04-70	5050		---	---	0.85	0.89	2.52	0.05		2.31	0.07	1.80	0.05					0
0815	5050				20	21	58	1		55	2	42	1					
13S/02E-31G04 M		--	7.7	2690	202	104	183		0	134		825	1.7		0.2			932
7-00-70	5050		---	---	10.08	8.54	7.96			2.20		23.26	0.03					822
---	2100				38	32	30											
13S/02E-31K02 M		--	8.0	606	43	15	62		0	238		70	2.3		0.1			169
7-29-70	5050		---	---	2.15	1.23	2.70			3.90		1.97	0.04					0
--	2100				35	20	45											
13S/02E-32A02 M		--	8.3	607	40	15	62		0	228		78	1.8		0.2			163
7-29-70	5050		---	---	2.00	1.26	2.70			3.74		2.20	0.03					0
--	2100				34	21	45											
14S/02E-12Q01 M		65	8.4	552	59	25	37		5	234		45	8.8		0.0			250
7-28-70	5050		---	---	2.94	2.06	1.61		0.17	3.84		1.27	0.14					58
--	2100				45	31	24											
14S/02E-13P01 M		--	8.1	1090	57	50	92		0	185		170	10		0.1			350
8-03-70	5050		---	---	2.84	4.15	4.00			3.03		4.79	0.16					198
--	2100				26	38	36											
14S/02E-36Q01 M		65	8.3	445	46	13	30		0	156		18	0.8		0.1			168
8-03-70	5050		---	---	2.30	1.06	1.30			2.56		0.51	0.01					40
--	2100				49	23	28											
14S/03E-31F01 M		--	7.8	2330	162	131	256		0	264		328	9.1		0.7			942
7-29-70	5050		---	---	8.08	10.74	11.13			4.33		9.25	0.15					725
--	2100				27	36	37											
15S/03E-13N01 M		65	8.1	904	71	34	75		0	269		66	2.9		0.3			319
8-11-70	5050		---	---	3.54	2.83	3.26			4.41		1.86	0.05					98
--	2100				37	29	34											

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 SIDE AREA 3-04.02																		
14S/03E-04E01 M		68	8.3	502	53	19	33		0	223		45	9.1		0.0			212
8-04-70	5050		---	---	2.64	1.60	1.44			3.66		1.27	0.15					29
--	2100				47	28	25											
14S/03E-25L02 M		70	8.3	623	41	19	63		0	213		86	4.5		0.1			179
7-30-70	5050		---	---	2.05	1.53	2.74			3.49		2.43	0.07					5
--	2100				33	24	43											
15S/04E-26G01 M		--	8.3	472	35	16	39		0	177		47	17		0.1			153
7-00-70	5050		---	---	1.75	1.31	1.70			2.90		1.33	0.27					8
--	2100				37	27	36											
16S/05E-20G02 M		--	6.4	2030	154	66	149	4.8	0	240	173	406	62		0.1		1240	658
10-15-69	5050		---	---	7.68	5.46	6.48	0.12		3.93	3.60	11.45	1.00					461
1100	5050				39	28	33	0		20	18	57	5					
FOREBAY AREA 3-04.03																		
17S/05E-14D01 M		62	8.2	768	66	29	56		0	223		82	0.0		0.1			286
8-18-70	5050		---	---	3.29	2.42	2.44			3.66		2.31						103
--	2100				40	30	30											
17S/06E-35F01 M		64	8.3	991	62	33	111		0	224		78	2.1		0.8			290
8-18-70	5050		---	---	3.09	2.70	4.83			3.67		2.20	0.03					106
--	2100				29	25	46											
18S/07E-20K01 M		--	7.8	2940	318	152	189		0	179		338	24		1.0			1420
8-06-70	5050		---	---	15.87	12.50	8.22			2.93		9.53	0.39					1270
--	2100				43	34	23											
ARROYO SECO CONE 3-04.04																		
18S/06E-28J01 M		--	8.2	472	47	17	23		0	120		32	14		0.0			186
8-06-70	5050		---	---	2.35	1.37	1.00			1.97		0.90	0.23					88
--	2100				50	29	21											
UPPER VALLEY AREA 3-04.05																		
19S/07E-10P01 M		63	7.9	1740	151	88	75		0	222		359	55		0.2			740
7-29-70	5050		---	---	7.53	7.26	3.26			3.64		10.12	0.89					558
--	2100				42	40	18											
20S/08E-24J02 M		69	8.0	3580	156	151	394		0	223		845	4.6		2.7			1010
7-28-70	5050		---	---	7.78	12.40	17.14			3.66		23.83	0.07					827
--	2100				21	33	46											
21S/09E-24L01 M		64	7.9	1860	180	74	153		0	266		112	41		0.7			755
7-28-70	5050		---	---	8.98	6.10	6.66			4.36		3.16	0.66					536
--	2100				41	28	31											
22S/10E-34G01 M		68	8.2	890	67	48	76		0	269		101	5.1		0.5			366
7-28-70	5050		---	---	3.34	3.97	3.31			4.41		2.85	0.08					145
--	2100				32	37	31											
SEASIDE AREA 3-04.08																		
16S/02E- 9F01 M		--	6.6	884	56	15	100	3.9	0	121	28	206	5.2		0.0		557	200
3-03-70	5050		---	---	2.79	1.21	4.35	0.10		1.98	0.58	5.81	0.08					101
1500	5050				33	14	52	1		23	7	69	1					
LANGLEY AREA 3-04.09																		
13S/03E-17F02 M		--	7.4	466	17	14	53	1.4	0	103	8.2	84	3.5		0.0		294	100
3-05-70	5050		---	---	0.85	1.15	2.30	0.04		1.69	0.17	2.37	0.06					16
0945	5050				20	26	53	1		39	4	55	2					
13S/03E-30H01 M		--	7.1	690	30	18	72	1.8	0	73	16	125	74		0.0		442	150
3-05-70	5050		---	---	1.50	1.50	3.13	0.05		1.20	0.33	3.53	1.19					90
0915	5050				24	24	51	1		19	5	57	19					
CORRAL DE TIERRA AREA 3-04.10																		
15S/02E-35P01 M		--	7.0	1060	55	18	138	7.5	0	244	42	190	2.0		0.1		643	211
3-04-70	5050		---	---	2.74	1.48	6.00	0.19		4.00	0.87	5.36	0.03					11
1400	5050				26	14	58	2		39	9	52	0					
15S/02E-35P02 M		--	7.2	720	50	11	87	2.8	0	211	14	116	0.7		0.0		438	169
3-04-70	5050		---	---	2.50	0.88	3.78	0.07		3.46	0.29	3.27	0.01					0
1700	5050				35	12	52	1		49	4	47	0					
16S/02E-01M02 M		--	6.9	613	25	12	81	2.5	0	146	7.6	111	0.0		0.0		339	113
3-03-70	5050		---	---	1.25	1.01	3.52	0.06		2.39	0.16	3.13						0
1400	5050				22	17	60	1		42	3	55						

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
CORRAL DE TIERRA AREA 3-04.10 (Continued)																		
16S/02E-02J01 M		--	6.6	936	46	19	112	2.6	0	158	7.7	212	2.8		0.0		550	193
3-04-70	5050		---	---	2.30	1.56	4.87	0.07		2.59	0.16	5.98	0.05					63
1430	5050				26	18	55	1		29	2	68	1					
16S/02E-10Q03 M		--	7.5	636	47	14	66	4.3	0	135	76	90	1.8		0.2		429	174
3-04-70	5050		---	---	2.34	1.14	2.87	0.11		2.21	1.58	2.54	0.03					63
1430	5050				36	18	44	2		35	25	40	0					
16S/02E-14P01 M		--	8.1	2040	133	38	264	17	0	475	317	234	20		0.3		1360	487
5-18-70	5050		---	---	6.63	3.10	11.48	0.43		7.79	6.60	6.60	0.32					97
1640	5050				31	14	53	2		37	31	31	1					
16S/02E-14Q01 M		--	6.9	1790	162	42	160	11	0	393	276	228	4.0		0.1		1170	579
3-04-70	5050		---	---	8.08	3.49	6.96	0.28		6.44	5.75	6.43	0.06					257
1620	5050				43	19	37	1		35	31	34	0					
16S/02E-15J01 M		--	7.2	1630	138	40	158	9.0	0	384	251	200	1.2		0.1		1050	511
3-04-70	5050		---	---	6.89	3.32	6.87	0.23		6.29	5.22	5.64	0.02					196
1640	5050				40	19	40	1		37	30	33	0					
16S/02E-24DS1 M		--	8.0	1600	169	34	136	10	0	385	268	187	4.0		0.1		1080	564
3-04-70	5050		---	---	8.43	2.84	5.92	0.26		6.31	5.58	5.28	0.06					248
1600	5050				48	16	34	2		37	32	31	0					
16S/03E-19L02 M		--	7.3	1750	224	45	105	13	0	459	345	176	0.6		0.0		1270	744
3-04-70	5050		---	---	11.18	3.68	4.57	0.33		7.52	7.18	4.96	0.01					368
1540	5050				56	19	23	2		38	37	25	0					
MISCELLANEOUS AREA 3-80.00																		
19S/01E-09M01 M		--	8.1	462	34	20	34	0.5	0	179	36	37	0.6		0.0		259	168
9-03-70	5050		---	---	1.70	1.66	1.48	0.01		2.93	0.75	1.04	0.01					21
1245	5050				35	34	31	0		62	16	22	0					
19S/01E-16E01 M		---	7.5	8580	21	412	1170		0	138		2900	0.6					1750
7-30-70	5050		---	---	1.05	33.91	50.98			2.26		81.81	0.01					1640
0915	5050				1	40	59											
19S/01E-16F01 M		--	8.2	1830	82	35	235	4.8	0	154	81	465	0.0		0.0		1060	348
9-03-70	5050		---	---	4.09	2.86	10.22	0.12		2.52	1.69	13.12						222
1115	5050				24	16	59	1		14	10	76						
19S/01E-16F02 M		---	7.8	364	38	14	21		0	158		25	0.3					154
7-30-70	5050		---	---	1.90	1.18	0.91			2.59		0.70	0.00					24
0920	5050				48	29	23											
19S/01E-16F02 M		--	8.3	374	41	8.5	16	1.4	0	156	20	14	0.0		0.0		186	137
9-03-70	5050		---	---	2.04	0.70	0.70	0.04		2.56	0.42	0.39						9
1230	5050				59	20	20	1		76	12	12						

TABLE E-2

TRACE ELEMENT ANALYSES OF GROUND WATER

(In micrograms per liter*)

State Well Number	Date Sampled	Al	Be	Bi	Cd	Co	Cr	Cu	Fe	Ga
		Ge	Mn	Mo	Ni	Pb	Ti	V	Zn	
CENTRAL COASTAL REGION 3-00.00										
PAJARO VALLEY 3-02.00										
12S/02E-22L01 M	4-07-70	<3.3	<1.3	<0.7	<3.3	<3.3	<3.3	<3.3	<3.3	<13
		<0.7	<3.3	<0.7	<0.7	<3.3	<1.3	8	<13	
GILROY-HOLLISTER VALLEY 3-03.00										
SAN BENITO COUNTY 3-03.02										
13S/05E-03J01 M	9-16-70	<3.3	<1.3	<0.7	<3.3	8.7	<3.3	25	5.9	<13
		<0.7	<3.3	<0.7	2.2	<3.3	<1.3	1.9	93	
SALINAS VALLEY 3-04.00										
16S/02E-09F01 M	3-03-70	<3.3	<1.3	<0.7	<3.3	<3.3	<3.3	<3.3	100	<13
		<0.7	43	<0.7	<0.7	<3.3	<1.3	<0.7	<13	
16S/02E-14P01 M	5-18-70	<13	<1.3	<0.7	<3.3	<3.3	<3.3	<3.3	3150	<13
		<0.7	100	13	<0.7	<3.3	<1.3	<0.7	<13	
MISCELLANEOUS AREA 3-80.00										
19S/01E-16F02 M	9-03-70	5.3	<1.3	<0.7	<3.3	<3.3	<3.3	<3.3	10	<13
		<0.7	<3.3	4.3	2.3	<3.3	1.3	8.7	<1.3	

*Spectrographic analyses performed by the U. S. Geological Survey laboratory.

Chemical Symbols

Al - Aluminum
Be - Beryllium
Bi - Bismuth
Cd - Cadmium
Co - Cobalt
Cr - Chromium
Cu - Copper
Fe - Iron
Ga - Gallium
Ge - Germanium
Mn - Manganese
Mo - Molybdenum
Ni - Nickel
Pb - Lead
Ti - Titanium
V - Vanadium
Zn - Zinc

Appendix F

WASTE WATER

INTRODUCTION

This appendix contains data on the quantity and use of waste water by 59 cooperating dischargers in the Central Coastal Area. Data are presented for the period October 1, 1969 through September 30, 1970.

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 59 dischargers released 589,104 acre-feet of waste water and of this total seven dischargers reused 2,611 acre-feet of waste water.

TABLE F-1

QUANTITY OF WASTE WATER DISCHARGED AND REUSED

CENTRAL COASTAL AREA

1970 WATER YEAR

Discharger	Average Discharge Rate (Mgd)	Volume Discharged (AF)	Portion Reused (AF)	Type of Reuse	Place of Disposal For Waste Water Not Reused
Benicia, City of	0.9	982	0		Carquinez Strait
Burlingame, City of	4.1	4,586	92	Recycled	San Francisco Bay
C and H Sugar Refinery	13.0	14,675	0		Carquinez Strait
Central Contra Costa Sanitary District	23.6	26,531	0		Suisun Bay
Concord, City of	4.9	5,463	0		Walnut Creek
Crockett-Valona Sanitary District	0.2	182	0		Carquinez Strait
East Bay Municipal Utility District Special District #1	81.3	91,650	0		San Francisco Bay
Estero Municipal Improvement District	1.4	1,526	0		San Francisco Bay
Fairfield-Suisun Sanitary District	4.5	5,057	0		Suisun Slough
Hayward, City of	11.9	13,350	0		San Francisco Bay
Las Gallinas Valley Sanitary District	2.8	3,164	0		Miller Creek
Livermore, City of	3.4	3,824	258	Irrigation	Land
Los Altos, City of	1.9	2,094	0		San Francisco Bay
Marin County Sanitary District					
District No. 1	5.4	6,110	0		San Francisco Bay
District No. 5 (Main)	0.7	794	0		Raccoon Strait
District No. 6 (Ignacio)	0.6*	376*	71*	Irrigation	San Pablo Bay
District No. 6 (Novato)	1.6*	1,053*	10*	Irrigation	Novato Creek
Mill Valley, City of	2.1	2,312	0		Richardson Bay
Millbrae, City of	2.3	2,599	0		San Francisco Bay
Milpitas Sanitary District	2.8	3,111	0		Coyote Creek
Mountain View, City of	7.4	8,293	0		San Francisco Bay
Mountain View Sanitary District	0.8**	901**	0		Carquinez Strait
Napa Sanitation District	5.6	6,308	0		Napa River
North San Mateo County Sanitation District	4.1	4,571	0		Pacific Ocean
Oro Loma Sanitary District	13.8**	15,510**	0		San Francisco Bay
Pacifica, City of					
Linda Mar Plant	1.8	1,947	0		Pacific Ocean
Sharp Park Plant	1.1	1,238	0		Pacific Ocean
Palo Alto, City of	12.7	14,360	0		San Francisco Bay

*Plant operated March through September only. Amounts shown are estimated.
**Estimated.

TABLE F-1 (Continued)

QUANTITY OF WASTE WATER DISCHARGED AND REUSED

CENTRAL COASTAL AREA

1970 WATER YEAR

Discharger	Average Discharge Rate (Mgd)	Volume Discharged (AF)	Portion Reused (AF)	Type of Reuse	Place of Disposal For Waste Water Not Reused
Petaluma, City of	2.6	2,894	0		Petaluma River
Pinole, City of	0.9	1,034	0		San Pablo Bay
Pleasanton, City of	1.0	1,115	1,115	Irrigation	
Redwood City, City of	7.5	8,498	0		San Francisco Bay
Richardson Bay Sanitary District	0.2	261	0		Raccoon Strait
Richmond, City of	9.8	11,022	0		San Francisco Bay
Rodeo Sanitary District	0.6	640	0		San Pablo Bay
San Carlos-Belmont, Cities of	3.8	4,238	0		San Francisco Bay
San Francisco International Airport	0.9	1,021	0		San Francisco Bay
San Francisco, City and County of					
Golden Gate Plant	1.0	1,127	1,014	Irrigation	
North Point Plant	62.5	86,802	0		San Francisco Bay
Richmond-Sunset Plant	18.9	21,252	0		Pacific Ocean
Southeast Plant	19.6	22,087	0		San Francisco Bay
San Jose, City of	75.0	84,504	50.7	Irrigation	San Francisco Bay
San Leandro, City of	7.7	8,694	0		San Francisco Bay
San Mateo, City of	11.4	12,802	0		San Francisco Bay
San Pablo Sanitary District	7.6	8,563	0		San Pablo Bay
San Rafael Sanitary District	2.8	3,126	0		San Francisco Bay
Sausality-Marin City Sanitary District	1.9	2,151	0		San Francisco Bay
Shell Chemical Company, Pittsburg Plant	2.3	2,627	0		Suisun Bay
Sonoma Valley Sanitary District	2.5	2,809	0		Schell Slough
South San Francisco-San Bruno, Cities of	9.2	10,390	0		San Francisco Bay
Stege Sanitary District	4.5	5,011	0		San Francisco Bay
Sunnyvale, City of	15.0	16,939	0		San Francisco Bay
Travis Air Force Base	1.6	1,770	0		Union Creek
Union Sanitary District					
Newark Plant No. 1	5.3	5,954	0		San Francisco Bay
Irvington Plant No. 2	5.1	5,761	0		San Francisco Bay
Alvarado Plant No. 3	1.9	2,187	0		San Francisco Bay
Vallejo Sanitation and Flood Control District	7.5	8,471	0		Carquinez Strait
Valley Community Services District	2.2	2,497	0		Alamo Canal
Yountville Veterans Home	0.3	290	NA		Napa River

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