State of California

THE RESOURCES AGENCY

Department of Water Resources

BULLETIN No. 130-64

HYDROLOGIC DATA: 1964

Volume III: CENTRAL COASTAL AREA

JUNE 1966

HUGO FISHER
Administrator
The Resources Agency

EDMUND G. BROWN
Governor
State of California

WILLIAM E. WARNE
Director
Department of Water Resources

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FOREWORD

Bulletin No. 130 is designed to present comprehensive and accurate hydrologic data to the public. The bulletin is published annually in five volumes, each volume reporting data for a specific area of the State. Volume III, "Central Coastal Area", presents data from the area depicted on page iii.

The collection and publication of these data are authorized by Sections 225, 229, 230, 345, 12609, and 12616 of the Water Code of the State of California.

Collection of much of the data presented has been possible only because of the generous help of other agencies. Their assistance has enabled us to make Bulletin No. 130 more complete and accurate. Acknowledgments of agencies who have directly contributed to Bulletin No. 130-164, Volume III, are made in each appendix.

William E. Warne, Director
Department of Water Resources
The Resources Agency
State of California

ORGANIZATION OF BULLETIN NO. 130 SERIES

Volume I - NORTH COASTAL AREA

Volume II - NORTHEASTERN CALIFORNIA

Volume III - CENTRAL COASTAL AREA

Volume IV - SAN JOAQUIN VALLEY

Volume V - SOUTHERN CALIFORNIA

Each volume consists of the following:

TEXT and

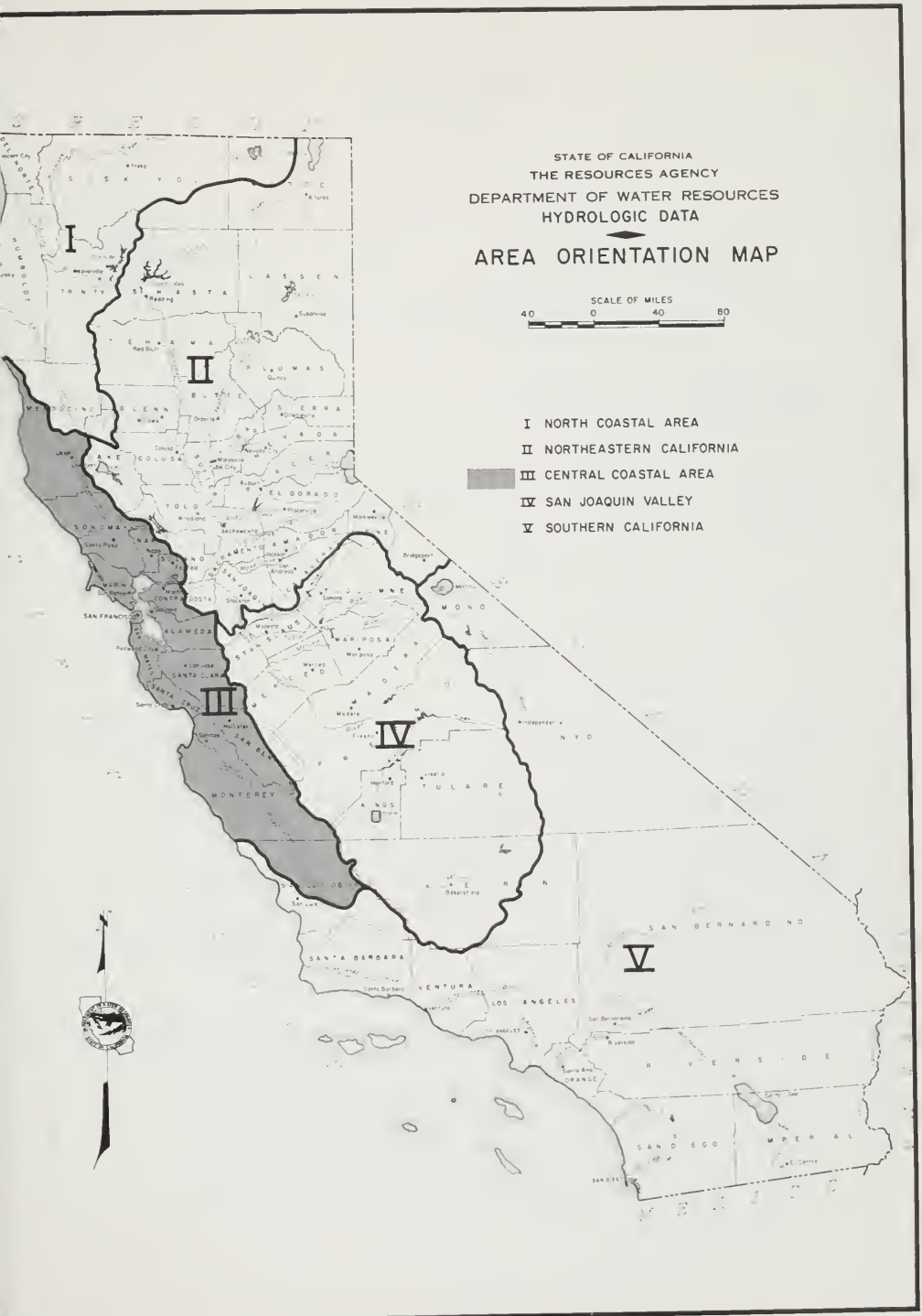
Appendix A - CLIMATE

Appendix B - SURFACE WATER FLOW

Appendix C - GROUND WATER MEASUREMENTS

Appendix D - SURFACE WATER QUALITY

Appendix E - GROUND WATER QUALITY


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
HYDROLOGIC DATA
AREA ORIENTATION MAP
SCALE OF MILES
40 0 40 80
I NORTH COASTAL AREA
II NORTHEASTERN CALIFORNIA
III CENTRAL COASTAL AREA
IV SAN JOAQUIN VALLEY
V SOUTHERN CALIFORNIA
I
II
III
IV
V

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.7	Cubic meters per minute

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STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

EDMUND G. BROWN, Governor
HUGO D. FISHER, Administrator, The Resources Agency
WILLIAM E. WARNE, Director, Department of Water Resources
ALFRED R. GOLZE', Chief Engineer
JOHN R. TEERINK, Assistant Chief Engineer, Area Management

- - - - 0 - - - -

SAN FRANCISCO BAY DISTRICT

Charles A. McCullough . . . . . District Director

Vernon Bengal . . . . . Chief, Water Supply and Quality Section

Activities covered by this report were under the supervision

of

Glenn R. Peterson . . . . . Supervisor, Water Supply Unit

Assisted by

John C. Etchells . . . . . Water Resources Engineering Associate

John S. Bartok . . . . . Water Resources Technician II

Larry K. Gage . . . . . Assistant Civil Engineer

Kenneth R. Hamilton . . . . . Assistant Civil Engineer

Dale L. Zeiders . . . . . Assistant Civil Engineer

Lloyd J. Grant . . . . . Junior Civil Engineer

Michael L. Helm . . . . . Junior Civil Engineer

Reviewed and coordinated by
Statewide Planning Office
Data Coordination Branch

DATA COLLECTION ACTIVITIES

The Department of Water Resources, in cooperation with federal, state, and local agencies, as well as with the generous and public-spirited assistance of many individuals, has gradually developed a continuing program of basic hydrologic data collection. This continuity enables systematic and orderly handling, filing, and publication of the data for all uses both now and in the future.

The data collection activities involve the maintenance of a network of stations adequate to provide reliable, meaningful, representative, and needed information. The number of stations in the network is maintained at a minimum needed for general evaluation of water conditions and for a long term base for water management and planning purposes. Water samples or water measurements are taken at these stations, chemical analyses of the samples are made and the data are compiled, analyzed, summarized, and published. These data include information on climate, surface water flows and tidal stages, ground water levels, and chemical quality of surface and ground waters. The climate data include precipitation, air temperature, wind movement, and evaporation. Pacific Standard Time is used throughout the report.

CLIMATE

The reporting period for climatologic data was changed in this report from a fiscal year, July 1 through June 30, to a water year, October 1 through September 30, to make the period the same as for surface water flow and surface water quality data. Climatologic data for the period July 1, 1963, through September 30, 1963, are also included in this 1964 report.

The climatology station network shown on Plate 1, "Climatological Stations in the Central Coastal Area", includes stations established by the U. S. Weather Bureau and the Department of Water Resources. The Department supplements the Weather Bureau network of 143 stations with a network of 75 selected stations which are operated by individual, private industry and governmental agencies. Data from these 218 stations are tabulated in Appendix A of this report.

SURFACE WATER FLOW

The four surface water stations shown on Plate 2 are operated by the Department of Water Resources. In addition, the Department cooperates with the United States Geological Survey in the operation of 58 of the 114 stations operated by that agency in the area covered by this report. Also, the United States Coast and Geodetic Survey operates two tide stations in the area. The United States Geological Survey publishes data from the 114 stations in its water supply papers. There are a number of surface water stations operated by local agencies for local purposes from which data are not routinely collected by the Department. Data from the four stations and from Rector Reservoir and information on surface water imports into the area are tabulated in Appendix B.

GROUND WATER MEASUREMENTS

The Department cooperates with the U. S. Geological Survey and many local agencies for the systematic observation of ground water levels. The Department collects water level measurement data from approximately 1,700 wells in the Central Coastal Area. Data from 204 wells are presented in Appendix C of this report. These 204 wells were selected as representative of wells in the respective ground water basins or units. The wells were

selected on the basis of a number of factors such as geographical density of one or two wells per township; length of water level record; frequency of measurements; conformity with respect to water level fluctuations in the ground water basin or area, aquifer represented, and availability of a geologic log, mineral analyses, and production records.

The depth to water in most wells is usually a direct measurement made with a tape; however, in some wells, especially deep ones, measurements are made with an air line and gauge or an electric sounder. Field work was performed by local cooperators, the U. S. Geological Survey and Department personnel. The Department has full responsibility for reviewing, editing, processing and publishing ground water level data. An electric computer program has been developed to perform a part of the processing and tabulating.

Ground water basins or units in the Central Coastal area are shown on Plate 3. The number of wells measured in these areas and the measuring agency are shown in Table 1.

The data are summarized in Table C-1, "Ground Water Level Conditions in the Central Coastal Area", which presents average depths to ground waters, and average changes by basin and region from the spring of 1963 to the spring of 1964.

Water level fluctuations are depicted graphically on hydrographs of 22 wells distributed among significant basins of the area. These wells were selected insofar as possible as representative of their respective basins or units. The hydrographs are presented in Figure C-1 by region, basin, and well number.

TABLE 1
SUMMARY OF GROUND WATER DATA
COLLECTED IN THE CENTRAL COASTAL AREA
July 1, 1963 - June 30, 1964

Ground Water Basin or Unit	Basin Number	Measuring or Sampling Agency	Number of Wells Measured	Number of Wells Sampled
		REGION 1		
Potter Valley	1-14.00	U. S. Geological Survey	2	
Ukiah Valley	1-15.00	U. S. Geological Survey	2	
		Mendocino County		11
Sanel Valley	1-16.00	U. S. Geological Survey	3	
		Mendocino County		6
Alexander Valley	1-17.00	U. S. Geological Survey	6	
		Department of Water Resources		6
Santa Rosa Valley	1-18.00			
Santa Rosa Area	1-18.01	U. S. Geological Survey	3	
		Department of Water Resources	12	22
Healdsburg Area	1-18.02	U. S. Geological Survey	4	
		Department of Water Resources		1
Lower Russian River Valley	1-98.00	U. S. Geological Survey	3	
		REGION 2		
Petaluma Valley	2-1.00	U. S. Geological Survey	3	
		Sonoma County F. C. & W. C. D.		15
		Department of Water Resources	3	4
Napa-Sonoma Valley	2-2.00			
Napa Valley	2-2.01	U. S. Geological Survey	4	
		Napa County	123	
		Department of Water Resources		26
Sonoma Valley	2-2.02	U. S. Geological Survey	3	
		Sonoma County F. C. & W. C. D.		10
		Department of Water Resources	2	
Suisun-Fairfield Valley	2-3.00	U. S. Geological Survey	2	
		Solano County	73	
		Department of Water Resources	4	11
Pittsburg Plain	2-4.00	Department of Water Resources		3
Clayton Valley	2-5.00	Department of Water Resources		8
Ygnacio Valley	2-6.00	Department of Water Resources	5	7
Santa Clara Valley	2-9.00			
East Bay Area	2-9.01	Alameda County Water District	77	73
		Alameda County F. C. & W. C. D.	59	24
		Department of Water Resources	3	
South Bay Area	2-9.02	U. S. Geological Survey	3	
		Santa Clara Valley W. C. D.	259	22
Livermore Valley	2-10.00	Alameda County F. C. & W. C. D.	177	37
Half Moon Bay Terrace	2-22.00	Department of Water Resources	8	
San Gregorio Valley	2-24.00	Department of Water Resources	5	
Pescadero Valley	2-26.00	Department of Water Resources	7	
		REGION 3		
West Santa Cruz Terrace	3-26.00	Santa Cruz County	7	
Soquel Valley	3-1.00	Santa Cruz County	5	
		Department of Water Resources	4	
Pajaro Valley	3-2.00	Monterey County F. C. & W. C. D.	19	15
		Santa Cruz County	56	
		City of Watsonville	6	
		Department of Water Resources	14	17
Gilroy-Hollister Valley	3-3.00			
South Santa Clara County	3-3.01	South Santa Clara County W. C. D.	25	
		Santa Clara Valley W. C. D.	16	
		Department of Water Resources	20	13
		City of Gilroy	5	
San Benito County	3-3.02	Pacheco Pass Water District and San Benito County	90	
		Department of Water Resources	5	14
Salinas Valley	3-4.00	Monterey County F. C. & W. C. D.	437	70
		San Luis Obispo County	51	31
Carmel Valley	3-7.00	Monterey County F. C. & W. C. D.	37	9

SURFACE WATER QUALITY

Surface water was sampled and analyzed both by the Department of Water Resources and by the U. S. Geological Survey in cooperation with the Department. The data from these sampling activities are shown in Appendix D of this report. The appendix includes data from a network of basic monitoring stations, operational stations on the South Bay Aqueduct and investigational stations. It includes all of the surface water quality data collected by this Department in the Central Coastal Area, except data from investigational stations in the San Francisco Bay system below Antioch. These data are specialized in nature and not included in this report. The stations for which data are reported in Appendix D are shown on Plate 4.

GROUND WATER QUALITY

During the year from July 1, 1963, through June 30, 1964, ground water samples were collected from 455 wells in the Central Coastal Area. These wells or stations were selected by the Department in the areas shown on Plate 3. Table 1 indicates the number of wells sampled in each basin and the sampling agency. The data from these stations are tabulated in Appendix E of this report.

Plate 5 depicts the status of sea water intrusion in the East Bay area of Santa Clara Valley. The 1964 line showing 350 parts per million chloride concentration is based on the spring 1964 analyses of samples from monitored wells shown on this plate. The 1962 line is based on the spring 1962 analyses for essentially the same station network.

Ground water is sampled and analyzed to provide information on the quality characteristics, to identify problem areas, to determine the quality

trends, and if possible, to identify the factors that control or affect the quality. Analyses made of ground water include mineral and radiological determinations. The frequency of sampling, types of analyses and density of the station network depend largely on conditions in the area being monitored.

APPENDIX A

CLIMATE

ACKNOWLEDGMENTS

The Department of Water Resources gratefully acknowledges the assistance and contributions of the many public agencies, private organizations, and individuals whose cooperation greatly facilitated the preparation of this appendix. Special mention is made of the following agencies:

Federal

United States Weather Bureau

United States Army Corps of Engineers

State

California Division of Highways

Local

Campbell Water Company

Livermore, City of

Marin County Engineer

Marin Municipal Water District

Napa, City of

Santa Clara County Flood Control and Water District

Santa Clara Valley Water Conservation District

Vallejo, City of

INTRODUCTION

This appendix contains station index, interim monthly precipitation, seasonal precipitation, interim monthly temperatures, monthly temperatures, interim monthly evaporation, and monthly evaporation tables. The tables of interim values present data for the months of July, August, and September 1963 and were necessitated by the change in report period from fiscal year (July through June) to water year (October through September). The data compiled are provided by governmental agencies, private industry and individuals. Symbols and abbreviations used in this appendix are:

B	Adjusted to a full month.
C	Data from recorder stations.
D	Data unavailable for this report.
E	Evaporation.
e	Wholly or partially estimated.
M	All or part of record missing. When used in place of an average monthly temperature value, more than ten days of record are missing.
NR	No record.
P	Precipitation.
RB	Beginning of record.
RE	End of record.
SS	Observation at sunset.
T	Temperature.
T	Trace, an amount too small to measure.
V	Includes total for previous month.
Var	Observation time varied.

The numbering system used by the Department was developed to facilitate station identification by data processing machines. Station numbers are composed from three components - the drainage basin number, the alpha order number and the subnumber.

Drainage Basin Designation

The State was divided into major hydrographic areas, and each of these areas was assigned an alphabetical letter which is the first digit of the drainage basin number. The second digit was obtained by dividing the major hydrographic areas into stream basins of primary importance and assigning a number of 0-9 with 0 generally being the valley floor.

The major hydrographic areas and the sub-areas which are reported in this volume are as follows:

Hydrographic Area D

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

Hydrographic Area E

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

Hydrographic Area F

F8 - Mendocino Coast
F9 - Russian River

Alpha Order Number and Subnumber

The four-digit alpha order numbers are assigned each station to denote its order in alphabetical sequence, mainly for machine processing. As the collection of data progressed, it was found necessary to add a subnumber of two digits to the four-digit alpha number to maintain the alphabetical order of all station names.

Climatological Station Index

Table A-1 includes the station name, number, and the county in which each station is located. It also includes the observer's name, station location, and elevation of the station. The time of observation, beginning of record, and cooperator number complete the information on this table. The cooperator number indicates the source of the data. The cooperator numbers assigned are as follows:

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, U. C., Davis

804 State Department of Beaches and Parks

806 State Department of Water Resources

808 State Division of Forestry

809 State Division of Highways

900 U. S. Weather Bureau

901 Corps of Engineers, San Francisco District

902 U. S. Air Force

907 State Climatologist (unpublished USWB)

909 U. S. Soil Conservation Service

Interim Monthly Precipitation

Table A-2 presents total monthly precipitation in inches for the months of July, August, and September 1963.

Seasonal Precipitation

Table A-3 presents total monthly and seasonal precipitation in inches for the year from October 1, 1963 through September 30, 1964.

Interim Monthly Temperatures

Table A-4 for the period July through September 1963 includes the maximum and minimum temperatures, the average of the daily maximum temperatures, the average of the daily minimum temperatures and the average of the daily maximum and minimum temperatures recorded during the month. The temperatures are recorded in degrees Fahrenheit.

Monthly Temperatures

Table A-5 presents the same type of temperature data as in Table A-4 but for the period October 1, 1963 through September 30, 1964.

Interim Monthly Evaporation

Table A-6 presents total evaporation during each month in inches, total wind movement during the month in miles, the monthly average of daily maximum water temperatures and the monthly average of daily minimum water temperatures for the period July through September 1963.

Monthly Evaporation

Table A-7 presents the same type of data as in Table A-6 but for the period October 1, 1963 through September 30, 1964.

TABLE A-1

CLIMATOLOGICAL STATION INDEX

STATION NAME	STA NUMBER	COUNTY	OBSERVER	LATITUDE ° ' "	LONGITUDE ° ' "	ELEV IN FEET	TOWNSHIP	RANGE	SECTION	40 ACRE TRACT	TIME OF OBSERVATION P	T	E	RECORD BEGAN	COOP. NO
Alamitos Perc. Pond	E6 0053	Santa Clara	SCVWCD	37 15 18	145 52 18	200	8S	1E	9	F	9A	9A	9A	1959	426
Alamo 1N	E4 0064	Contra Costa	Cuzzello	37 52	122 01	410	1S	2W	1	Q	7A	7A		1957	900
Almaden Reservoir	E6 0125	Santa Clara	SCVWCD	37 10 00	121 50 00	640	9S	1E	11	E	8A			1936	426
Alpine Dam	F9 0135	Marin	MMWD	37 56 30	122 38 18	680	1N	7W			M			1925	413
Angwin Pac. Union Col.	E3 0212	Napa	Pacific Union Col.	38 34 18	122 26 12	1815	8N	5W	5	Q	8P	8P		1939	900
Arroyo Seco	02 0322	Monterey	R. Billings	36 14	121 29	800	19S	4E	36		C			1931	900
Atascadero HMS	D3 0360-01	San Luis Obispo	J. Ellis	35 27 30	120 38 24	940	28S	12E	26		8A	8A		1948	809
Atlas Road	E3 0372	Napa	G. Dutra	38 25	122 15	1735	7N	4W	25		C			1940	900
Ben Lomond	D0 0674	Santa Cruz	N. Shaw	37 05	122 06	504	10S	2W	9		5P	5P		1937	900
Berkeley	E4 0693	Alameda	U. of Calif.	37 52	122 15	299	1S	3W			C	8P		1887	900
Berryessa 1 E (Toyon Ave.)	E6 0706	Santa Clara	H. Mitchell	37 23	121 50	205	6S	1E	23	P	5P			1921	901
Big Sur State Park	D4 0790	Monterey	Park Ser.	36 15	121 47	240	19S	2E	30		8A			1914	900
Black Mountain 2 SW	E6 0850	Santa Clara	M. Incerpi	37 18	122 10	2330	7S	3W	36		9A			1943	900
Blakes Landing	F9 0876	Marin	H. Angress	38 11 42	122 55 00	40	1N	10W	13		8A			1956	000
Bon Tempe Dam	F9 0969	Marin	MMWD	37 57 24	122 36 36	723	1N	7W	11		M			1958	413
Boonville HMS	F8 0973	Mendocino	Div. of Highways	39 01	123 22	342	13N	14W	2		8A			1936	900
Boonville-Farrer	F8 0973-02	Mendocino	J. Farrer	39 00 45	123 22 10	395	13N	14W	2		9A			1951	901
Bouchers Gap	D4 0998-27	Monterey	B. Alexander	36 21	121 51	2050	18S	1E	24	F	8A			1960	000
Bradley	D3 1034	Monterey	Div. of Forestry	35 52	120 48	540	24S	11E	8		8A			1946	900
Buena Vista	01 1170	San Benito	A. Churchill	36 46	121 11	1640	13S	7E	27	R	C			1932	900
Burlingame	E7 1206	San Mateo	Burlingame	37 35	122 21	10	4S	5W			4P	4P	4P	1946	900
Burton Ranch	E4 1216	Contra Costa	R. Stirton	37 52	122 05	530	1S	2W	9	M	8A			1955	900
Buzzard Lagoon	01 1247	Santa Cruz	O. Nohrden	37 02	121 50	1275	10S	1E	26	M	6P			1959	000
Calaveras Reservoir	E5 1281	Alameda	O. McCarthy	37 29 12	121 49 06	805	5S	1E	24		7A			1874	900
Calero Reservoir	E6 1285	Santa Clara	SCVWCD	37 10 48	121 45 48	500	9S	2E	4	E	8A			1958	414
Calistoga	E3 1312	Napa	J. Schou	38 35	122 35	365	9N	7W	36		7A			1873	900
Cambrian Park	E6 1341-10	Santa Clara	SCVWCD	37 15 12	121 55 24	225	8S	1W	12	B	7A			1962	414
Campbell Water Co.	E6 1377-01	Santa Clara	Campbell Water Co.	37 17	121 57	192	7S	1W	35	C	5P			1897	000
Carmel Valley	D4 1534	Monterey	A. Collins	36 29	121 44	425	17S	2E	5		5P	5P		1957	900
Cazadero	F9 1602	Sonoma	H. Borotra	38 32	123 07	1040	8N	12W	13		5P			1939	900
Chittenden Pass	01 1739	San Benito	V. Haskin	36 54	121 36	125	12S	3E	12		8A			1945	900
Chittenden	01 1739-01	Santa Cruz	H. Chadwell	36 54 08	121 36 17	104	12S	3E	11	K	8A			1960	000
Cienaga	D1 1766	San Benito	A. Smith	36 42 54	121 20 48	900	14S	6E	18	B	8A			1950	407
Cloverdale 3 SSE	F9 1838	Sonoma	J. Byrd	38 46	122 59	320	11N	10W	29		8A	8A		1950	900
Cloverdale 11 W	F9 1840	Sonoma	F. Ornbaun	38 46	123 13	1820	11N	12W	17		C			1939	900
Concord 3 E	E4 1962	Conta Costa	H. Lee	37 58	121 59	200	1N	1W			8A			1954	900
Conn	E3 1976	Napa	City of Napa	38 28 50	122 22 30	225	7N	5W	1	N	8A			0	000
Coyote Dam-Lake Mendocino	F9 2105	Mendocino	C.O.E.	39 11	123 11	784	16N	12W	34		8A	8A	8A	1960	901
Coyote Reservoir	E6 2109	Santa Clara	SCVWCD	37 05 06	121 32 24	800	10S	4E	9	C	9A	9A	9A	1938	900
Crest Ranch	00 2159	Santa Cruz	H. Nielson	37 05 06	122 08 00	2640	10S	3W	1	R	8A			1948	000
Crockett	E4 2177	Contra Costa	C & H Sugar	38 02	122 13	12	3N	3W	32		8A	8A		1918	900
Davenport	00 2290	Santa Cruz	F. Tacke	37 01	122 12	273	10S	3W	32	Q	8A	8A		1910	900
Del Monte	02 2362	Monterey	USN School	36 36	121 52	46	15S	1E			C			1911	900
Duttons Landing	E3 2580	Napa	D. Steele	38 12	122 18	20	4N	4W	10		8A	8A	8A	1955	900
Evergreen-Silver Ck. Rd.	E6 2919	Santa Clara	R. Long	37 19	122 02	340	7S	2E	20	G	7A			0	000
Fairfield	E3 2933	Solano	Co. Surveyor	38 15	122 03	15	5N	2W	25		C			1940	900
Fairfield Police Station	E3 2934	Solano	Police Dept.	38 15	122 03	19	5N	2W	26		4P	4P		1951	900
Fort Bragg	F8 3161	Mendocino	Cal. West. RR	39 27	123 48	80	18N	17W	7		8A	8A		1895	900
Fort Bragg Aviation	F8 3164	Mendocino	W.B. Observer	39 24	123 49	61	18N	18W	25		11P	11P		1940	900
Fort Ross	F8 3191	Sonoma	C. Call	38 21	123 15	116	8N	12W	30	D	6P	6P		1874	900
Freedom 8 NNW	01 3232	Santa Cruz	Westminster	37 03	121 49	1495	10S	1E	24		C			1952	900
Fremont Peak State Park	01 3238	San Benito	L. Reavenue	36 46 18	121 28 54	2500	13S	4E	35		8A	8A		1950	901
Gerber Ranch	E5 3387	Santa Clara	P. Gerber	37 22 00	121 29 12	2140	6S	4E	36	P	8A			1912	900
Gilroy	D1 3417	Santa Clara	Fire Dist.	37 00	121 34	194	11S	4E	6		9A	9A		1957	900
Gilroy 8 NE	01 3419	Santa Clara	W. Kickham	37 02	121 26	1050	10S	5E	28		C			1942	900
Gilroy 14 ENE	D1 3422	Santa Clara	S. Auzer	37 06	121 20	1350	10S	6E	5		8A			1940	900
Gonzales 9 ENE	02 3502	San Benito	A. Bogue	36 33	121 18	2350	16S	6E	15		C			1943	900
Graton	F9 3577	Sonoma	L. Hallberg	38 25 54	122 51 48	200	7N	9W	21		7A	7A		1928	900
Graton 1 W	F9 3578	Sonoma	N. Farnell	38 26	122 53	210	7N	9W	22		6P	6P		1896	900
Green Valley	E3 3612-01	Solano	E. Marshall	38 17	122 10	414	5N	3W	3		8A			1893	418
Guadalupe Reservoir	E6 3681	Santa Clara	SCVWCD	37 12	121 53	450	8S	1E	29	Q	8A			1936	414
Guerneville	F9 3683	Sonoma	J. Buttner	38 30	123 00	115	8N	10W	25		8A			1939	900
Half Moon Bay 2 NNW	E8 3714	San Mateo	Dept. of Agr.	37 29	122 27	60	5S	5W	19		7A	7A		1939	900
Hames Valley	03 3722	Monterey	Mrs. H. Frudden	35 52 45	120 54 27	720	23S	10E	29		5P			1963	913
Hayward 6 ESE	E4 3863	Alameda	M. Drennen	37 39	121 58	925	3S	1W	28		C			1940	900
Healdsburg	F9 3875	Sonoma	Fire Dept.	38 37	122 50	101	9N	9W	19		6P	6P		1877	900
Healdsburg 2 E	F9 3878	Sonoma	W. Iverson	38 37	122 50	102	9N	9W			8A			1943	900
Hernander 7 SE	D1 3928	San Benito	C. Akers	36 18	120 42	2765	19S	12E	6		C			1940	900
Hollister	01 4022	San Benito	Nollister	36 51	121 24	285	12S	5E			5P	5P		1874	900
Hollister Costa	D1 4022-10	San Benito	DWR - L&NU	36 55 15	121 26 46	170	11S	5E	32	P	Var		Var	1962	806
Hollister No. 2	01 4025	San Benito	Hollister	36 51	121 24	284	12S	5E			C			1938	900
Hollister 10 ENE	D1 4035	San Benito	E. Hubbell	36 55	121 14	3000	12S	7E	5		C			0	900
Hopland Irrgo Station	F9 4100	Mendocino	C. Crawford	39 01	123 07	550	13N	12W			8A			1948	900
Inverness-Mery	F9 4277	Marin	M. Mery	38 05 24	122 51 06	150	3N	9W			12N	5P		1951	000
Kellogg	F9 4480	Sonoma	R. Rubinow	38 40	122 40	1800	9N	7W	9		8A			1936	900

TABLE A-1

CLIMATOLOGICAL STATION INDEX

STATION NAME	STA NUMBER	COUNTY	OBSERVER	LATITUDE ° ' "	LONGITUDE ° ' "	ELEV IN FEET	TOWNSHIP	RANGE	SECTION	40 ACRE TRACT	TIME OF OBSERVATION P	T	E	RECORD BEGAN	COOP NO
Kentfield	E2 4500	Marin	H. Muller	37 57	122 33	90	1N	6W	8		9A	9A		1888	900
Kent Lake	F9 4502	Marin	MMWD	37 59 54	122 42 30	360	2N	8W			M			1954	413
King City	D2 4555	Monterey	Div. of Forestry	36 12	121 08	320	20S	8W	18		5P	5P		1887	900
Lafayette 2 NNE	E4 4633	Contra Costa	R. Sanborn	37 55	122 06	540	1N	2W			8A			1956	900
Lagunitas Lake	F9 4652	Marin	MMWD	37 56 48	122 35 42	785	1N	7W			C			1881	413
La Honda	E8 4660	San Mateo	J. Allen	37 19	122 16	670	7S	4W	14		6P			1950	900
Lake Curry	E3 4677	Solano	J. Lynch	38 21 18	122 07 18	396	6N	2W	19		8A			1926	418
Leroy Anderson Dam	E6 4916	Santa Clara	SCVWCD	37 09 48	121 37 48	700	9S	3E	10	K	8A			1950	414
Lexington Reservoir	F6 4922	Santa Clara	SCVWCD	37 10 36	121 59 18	700	9S	1W	5	J	8A	8A	8A	1951	414
Linn Ranch	D3 4963	San Luis Obispo	O. Linn	35 41 06	120 43 24	870	26S	12E	7	F	5P	5P		1925	000
Livermore Sewage Plant	E5 4996	Alameda	Livermore	37 41 28	121 48 20	405	3S	1E	12	A	7A	7A	7A	1961	000
Livermore 2 SSW	E5 4997	Alameda	M. Quaterman	37 39	121 47	545	3S	2E	20		7A	7A		1871	900
Lockwood 2 N	D3 5017	Monterey	A. Weferling	35 58	121 05	1104	22S	8E	34		8A			1940	900
Los Gatos	E6 5123	Santa Clara	Los Gatos	37 14	121 57	428	8S	1W	21	P	5P	5P		1885	900
Los Gatos-Old Orchard Rd.	E6 5123-04	Santa Clara	R. Roll	37 14	121 55	285	8S	1W	23		7A			1963	414
Los Gatos 4 SW	00 5125	Santa Clara	I. Miller	37 11	122 02	2215	9S	2W	1		9A			1957	900
Lucia Willow Springs	D4 5184	Monterey	Div. of Highways	35 53	121 27	355	4S	5E	5		C			1941	900
Mare Island	E3 5333	Solano	W. Cavanaugh	38 06 00	122 16 12	52	3N	3W			C	C		1867	900
Martinez 3 S	E4 5371	Contra Costa	M. Plummer	37 58	122 08	225	2N	2W			C			1941	900
Martinez 3 SSE	E4 5372	Contra Costa	C. Weaver	37 58	122 06	280	2N	2W			8A			1956	900
Martinez Fire Station	E4 5377	Contra Costa	Fire Dept.	38 01	122 08	26	2N	2W			9A	9A		1891	900
Mill Valley	E2 5647	Marin	County Engr.	37 53 48	122 31 36	10	1N	6W	31		8A			1944	411
Monterey	D4 5795	Monterey	R. Johnson	36 36	121 54	335	15S	1E			5S	5S		1878	900
Morgan Hill 2 E	E6 5844	Santa Clara	T. Downer	37 08	121 37	225	9S	3E			8A			1943	900
Morgan Hill 6 WNW	E6 5846	Santa Clara	M. Rose	37 09	121 46	660	9S	1E			C			D	900
Morgan Hill SCS	D1 5853	Santa Clara	Cons. Ser.	37 08	121 39	350	9S	3E	28		C			1945	900
Morro Bay 3 N	D6 5869	San Luis Obispo	Std. Oil Co.	35 25	120 51	670	29S	10E	12		C			1959	900
Mt. Diablo North Gate	E4 5915	Contra Costa	Bch. & Parks	37 52	121 56	2100	1S	1W	12		7A	7A		1952	900
Mt. Hamilton	E5 5933	Santa Clara	W.B. Observer	37 20	121 39	4206	7S	3E			11P	11P		1881	900
Mount Madonna	D1 5973	Santa Cruz	J. Schell	37 01	121 43	1800	10S	2E	35		C			1945	900
Mt. Madonna Co. Park	D1 5973-11	Santa Clara	W. Foss	37 01	121 43	1880	11S	2E	1	B	8A			1937	909
Mt. Tamalpais 2 SW	E2 5996	Marin	Bch. & Parks	37 54	122 36	1480	1N	7W			C			1959	900
Muir Woods	E2 6027	Marin	Park Ser.	37 54	122 34	170	1N	6W			9A			1940	900
Napa	E3 6065	Napa	E. Gipson	38 18	122 17	16	5N	4W	3		7A			1945	900
Napa-Haven	E3 6068	Napa	D. Haven	38 17 30	122 17 48	30	5N	4W	10		8A	8A		1931	000
Napa State Hospital	E3 6074	Napa	J. Allemant	38 17	122 16	60	5N	4W	14	H	5P	5P		1877	900
Navarro 1 NW	F9 6105	Mendocino	Masonite Co.	39 10	123 34	220	15N	15W	7		C			1958	900
Newark	E5 6144	Alameda	Leslie Salt	37 31	122 02	14	5S	2W			8A	8A	8A	1891	900
Nicasio	F9 6187	Marin	MMWD	38 04	122 42	240	3N	8W			M			M	413
Novato 8 WNW	E2 6290	Marin	E. Thompson	38 08	122 43	350	4N	8W	24		C			1943	900
Novato Fire House	E2 6290-02	Marin	E. Luders	38 06 30	122 33 42	18	3N	6W	7		D			1957	411
Oakland WBAP	E4 6335	Alameda	USWB	37 44	122 12	3	2S	3W			C	C		1939	900
Oakville 1 NNW	E3 6351	Napa	A. Calkins	38 27	122 25	160	7N	5W	21		6P			1906	900
Oakville 4 SW	E3 6354	Napa	R. Pleiner	38 23	122 28	1465	6N	5W	6		C			1940	900
Oakville 4 SW No. 2	E3 6356	Napa	K. Nuckfeldt	38 24	122 28	1685	6N	6W	1		C			1963	900
Occidental	F9 6370	Sonoma	A. Blaney	38 25	122 59	1000	7N	10W	33		7A			1940	900
Paicines Ohrwall Ranch	D1 6610	San Benito	J. Ohrwall	36 44	121 22	950	14S	5E	12		8A			1924	900
Palo Alto City Hall	E7 6646	Santa Clara	Engr. Dept.	37 27	122 08	23	6S	3W	1		8A	8A		1953	900
Paloma	D2 6650	Monterey	J. Bell	36 21	121 30	1835	18S	4E	23		5P			1940	900
Parkfield	D3 6703	Monterey	M. Durham	35 53	120 26	1482	3S	14E	35		7A			1938	900
Parkfield 7 NNW	D3 6706	Monterey	R. Morrison	36 00	120 28	3590	12S	14E			C			D	900
Penitencia Rain Cage	E6 6791-43	Santa Clara	G. Dodson	37 24 00	121 49 54	260	6S	1E			7A			1962	414
Petaluma F. S. No. 2	E2 6826	Sonoma	Fire Dept.	38 14	122 38	16	5N	7W	33		5P	5P		1871	900
Petaluma-Burns	E2 6826-01	Sonoma	Burns	38 13 00	122 42 48	240	4N	8W	2		8A			1959	901
Petaluma 1N	E2 6829	Sonoma	V. Chaix	38 15	122 38	30	5N	7W			C			1943	900
Pheonix Lake Dam	F9 6853	Marin	MMWD	37 57 18	122 34 24	175					M			1937	413
Pico Blanco B. S. Camp	D4 6856	Monterey	P. Harlan	36 20 18	121 47 42	900	18S	2E	30		8A			1957	000
Pinnacles National Mon.	D2 6926	San Benito	Park Ser.	36 29	121 11	1310	17S	7E	2		4P	4P		1937	900
Pleasanton Nursery	E5 6991-05	Alameda	J. F. Lopez	37 40	122 53	345	3S	1E	20		8A	4;30P		1939	000
Point Arena	F8 7009	Mendocino	J. Moungovan	38 55	123 42	122	12N	17W	12		8A	8A		1940	900
Point Piedras Blancas	D5 7024	San Luis Obispo	Coast Guard	35 40	121 17	59	26S	6E	12		11P	11P		1938	900
Port Chicago NAO	E4 7070	Contra Costa	Naval Mag.	38 01	122 01	50	2N	1W			8A	8A		1946	900
Portola State Park	E8 7086	San Mateo	Park Ranger	37 14 42	122 12 42	422	8S	3W	8	Q	8A			1959	901
Potter Valley 3 NNW	F9 7107	Mendocino	W. Despain	39 22	123 08	1060	17N	11W	6		C			1953	900
Potter Valley 3 SE	F9 7108	Mendocino	R. Near	39 18	123 04	1100	17N	11W	27		C			1952	900
Potter Valley P. H.	F9 7109	Mendocino	P. G. & E.	39 22	123 08	1014	17N	11W	6		3P	3P		1911	900
Priest Valley	D2 7150	Monterey	N. Palmer	36 11	120 42	2300	20S	12E	21		5S	5S		1898	900
Quien Sabe-Hay Camp	D1 7190	San Benito	J. F. Berta	36 51 30	121 11 48	1630	12S	7E	27	M	7A	7A		1949	000
Rancho Quien Sabe	D1 7249	San Benito	R. Somavia	36 50 12	121 12 48	1800	13S	7E	4	D	0			1931	000
Redwood City	E7 7339	San Mateo	Fire Dept.	37 29	122 14	31	5S	3W			5P	5P		1899	900
Richmond	E4 7414	Contra Costa	Richmond	37 56	122 21	55	1N	4W			8A	8A		1950	900
Roosevelt Ranch	D4 7539-01	Monterey	N. Roosevelt	36 10 48	121 41 48	1100	20S	2E	24		8A	8A		1946	000
Saint Helena	E3 7643	Napa	E. Pauleon	38 30	122 28	255	8N	5W	31	N	6P	6P		1907	900
Saint Helena 4 WSW	E3 7646	Napa	E. Learned	38 30	122 32	1792	7N	6W	4		C			1939	900
Saint Mary's College	E4 7661	Contra Costa	Fr. Benedict	37 50	122 06	625	1S	2W	17		5P	5P		1942	900

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CLIMATOLOGICAL STATION INDEX

STATION NAME	STA NUMBER	COUNTY	OBSERVER	LATITUDE ° ' "	LONGITUDE ° ' "	ELEV IN FEET	TOWNSHIP	RANGE	SECTION	40 ACRE TRACT	TIME OF OBSERVATION P	T	E	RECORD BEGAN	COOP. NO.
Salinas 2 E	02 7668	Monterey	Fire Dept.	36 40	121 37	80	14S	3E	34		5P	5P		1958	900
Salinas FAA Airport	D2 7669	Monterey	Fed. Av. Agency	36 40	121 36	80	14S	3E			C	C		1873	900
Salinas Dam	D3 7672	San Luis Obispo	Dam Operator	35 20	120 30	1386	30S	14E	8		8A			1942	900
San Anselmo	E2 7707-01	Marin	Marin Co. Engr.	37 58 36	122 33 42	100	2N	6W	7		D			1957	411
San Antonio Mission	03 7714	Monterey	San Antonio Msn.	36 01	121 15	1060	22S	7E	18		5P	5P		1959	900
San Ardo	D2 7716	Monterey	W. Rosenberg	36 00 48	120 54 06	440	22S	10E	16	K	8A			1894	900
San Benito	01 7719	San Benito	J. Shields	36 30 30	121 04 54	1355	16S	8E	27	B	C			1936	900
San Clemente Dam	D4 7731	Monterey	Wtr. & Tel. Co.	36 26 12	121 42 30	600	17S	2E	23		7A			1940	900
San Felipe Highway Station	01 7755	Santa Clara	Div. of Highways	37 01	121 20	365	10S	6E			C			1943	900
San Francisco Richmond Sunset	E8 7767	San Francisco	San Francisco	37 46	122 30	300	2S	6W			C	5P		1948	900
San Francisco WBAP	E7 7769	San Mateo	USWB	37 37	122 23	8	3S	5W			C	C		1928	900
San Francisco Fed. Office Bldg.	E7 7772	San Francisco	USWB	37 47	122 25	52	2S	6W			C	?		1931	900
San Gregorio 3 SE	E8 7807	San Mateo	Pomponio Ranch	37 18	122 20	355	7S	4W	30		5P	5P		1954	900
San Jose	E6 7821	Santa Clara	E. Billwiller	37 21	121 54	70	7S	1E			C	C		1874	900
San Jose Decid. P.F.S.	E6 7824	Santa Clara	A. Amstutz	37 19	121 57	90	7S	1W	15	J	8A	C		1935	801
San Juan Bautista Mission	D1 7835	San Benito	S. A. Farber	36 50 42	121 32 00	200	12S	4E			8A			1900	804
San Lucas Guidici	D2 7843-10	Monterey	DWR - L&WU	36 07 25	121 01 09	380	21S	9E	8	B	Var		Var	1962	806
San Mateo	E7 7846	San Mateo	Fire Dept.	37 34	122 19	30	4S	4W	29		5P	5P		1874	900
San Rafael	E2 7880	Marin	City Engr.	37 58	122 32	31	2N	6W			5P	5P		1948	900
San Rafael Nat. Bank	E2 7880-08	Marin	Crocker Cit. Bank	37 58 24	122 31 30	25	2N	6W			8A			1876	413
Santa Clara University	E6 7912	Santa Clara	Santa Clara Univ.	37 21	121 56	88	7S	1W			5P	5P		1881	900
Santa Cruz	D0 7916	Santa Cruz	R. Burtoo	36 59	122 01	125	11S	1W			5P	5P		1866	900
Santa Rita Mother	D2 7959-10	Monterey	DWR - L&WU	36 45 00	121 41 24	80	14S	3E	12	H	Var	C	Var	1962	806
Santa Rosa Sewage Plant	F9 7964	Sonoma	M. McKinnie	38 26 24	122 45 12	20	7N	8W	21	P	8A	8A	8A	1956	000
Santa Rosa	F9 7965	Sonoma	C. Newberry	38 27	122 42	167	7N	8W			7A	7A		1888	900
Santa Rosa Pedranzini	F9 7965-03	Sonoma	DWR - L&WU	38 21 38	122 44 31	90	6N	8W	16	R	Var		Var	1962	806
Saratoga-Clarke	E6 7998-01	Santa Clara	J. Clarke	37 16 48	121 59 42	272	7S	1W	31		7A			1956	414
Saratoga-Kriege	E6 7998-03	Santa Clara	D. Kriege	37 15	122 02	240	8S	2W	1		7A			1960	414
Searsville Lake	E6 8068	San Mateo	A. Clapp	37 24	122 14	350	6S	3W	12		8A			1949	900
Sebastopol 4 SSE	F9 8072	Sonoma	G. Nahmeos	38 21	122 49	150	6N	9W	6		C			1935	900
Skaggs Spg. Las Lomas Ranch	F9 8272	Sonoma	J. Leithold	38 41	123 08	1930	10N	12W	36		8A			1939	900
Slack Canyon	D2 8276	Monterey	Div. of Forestry	36 05	120 40	1730	21S	12E	22		C			1955	900
Soledad CTF	D2 8338-01	Monterey	F. F. Bootadelli	36 28 26	121 22 34	230	17S	5E	12	B	9A	9A	9A	1961	000
Soledad	D2 8338	Monterey	J. Francioni	36 26	121 19	204	17S	6E			8A			1874	900
Sonoma	E2 8351	Sonoma	L. Dickey	38 17	122 27	20	5N	5W	7		5P	5P		1952	900
Spreckels Nwy. Bridge	D2 8446	Monterey	S. Hennes	36 36	121 41	60	15S	3E			8A			1905	900
Spreckels	D2 8446-01	Monterey	Spreckels Sugar	36 37	121 39	48	15S	3E			8A	8A		1905	000
Spreckels Mill-Laguna Seca	E6 8447	Santa Clara	SCVWCD	37 12	121 44	384	9S	3E			8A			D	414
Stevens Creek Reservoir	E6 8519	Santa Clara	SCVWCD	37 18	122 05	600	7S	2W	28	H	8A			1937	414
Suey Ranch	D6 8627	San Luis Obispo	Suey Ranch	34 59 40	120 22 35	390	9N	33W			5P			1909	900
Sunset Beach State Park	01 8680	Santa Cruz	Bch. & Parks	36 54	121 50	85	11S	1E			C			1956	900
Talmage	F9 8776-01	Mendocino	L.G. Von Schriltz	39 08	123 11	413	15N	12W	10		8A			1953	000
Tamalpais Valley	E2 8779	Marin	Glessner	37 52 42	122 32 36	250	1N	6W			8A			1959	901
Templeton	D3 8849	San Luis Obispo	A. Willhoit	35 32 56	120 42 21	773	27S	12E	29		8A	8A		1886	000
The Geysers	F9 8885	Sonoma	F. Dewey	38 48	122 49	1600	11N	9W	23		C			1939	900
Tiburon-Topham	E2 8920-21	Marin	H. Topham	37 52 24	122 27 12	400	1S	5W	4		9A			1960	000
Travis Air Force Base	E3 9006	Solano	U.S.A.F.	38 16	121 56	50	5N	1W	24	E	8A			1943	902
Ukiah	F9 9122	Mendocino	Fire Dept.	39 08	123 12	623	15N	12W	17		5P	5P		1877	900
Ukiah 4 WSW	F9 9124	Mendocino	M. Dory	39 08	123 17	1900	15N	13W	27		8A			1951	900
Upper Morro Creek	D6 9179	San Luis Obispo	E. Purser	35 27 18	120 45 12	1050	28S	11E	35	B	7A			1951	000
Upper San Leandro Filters	E4 9185	Contra Costa	East Bay MUD	37 46	122 10	390	2S	3W	11	G	7A	7A		1944	900
Upper Tres Pinos	01 9189	San Benito	E. Francher	36 38	121 02	2050	15S	9E	7		C			1940	900
Valleton	D3 9221	Monterey	A. Curtis	35 53	120 42	950	23S	12E	32		C			1940	900
Vasona Reservoir	E6 9270	Santa Clara	SCVWCD	37 14 36	121 58 00	300	8S	1W	15		8A			1962	414
Venado	F9 9273	Sonoma	J. Harper	38 37	123 01	1260	9N	10W	19		C			1939	900
Veterans Home	E3 9305	Napa	B. Barboze	38 23	122 22	170	6N	5W	1		8A	8A		1912	000
Walmar School	E4 9420	Contra Costa	M. Dennis	37 57	122 05	128	1N	2W			5P			1954	900
Walnut Creek 2 ESE	E4 9423	Contra Costa	R. Whittemore	37 53	122 02	245	1N	2W	36		8A	8A		1887	900
Walnut Creek 2 ENE	E4 9426	Contra Costa	T. Vansaek	37 54	122 01	220	1N	2W	30		C			1944	900
Walnut Creek 4 E	E4 9427	Contra Costa	E. Irving	37 54	121 59	400	1N	1W			9A			1954	900
Watsonville Water Works	D1 9473	Santa Cruz	L. Bechis	36 56	121 46	95	11S	2E	32		8A	8A		1880	900
Wilder Ranch	D0 9675	Santa Cruz	D. R. Wilder	36 57 36	122 05 24	50	11S	2W	22		5P			1924	000
Wild Boree Valley	E3 9675-41	Solano	G. Stiltz	38 17 53	122 11 13	1240	5N	3W	10	D	8A	2P		D	418
Woodacre	F9 9770	Marin	Div. of Forestry	38 00 24	122 38 30	430	2N	7W			2P	2P		1950	808
Wrighte	E6 9814	Santa Clara	M. Were	37 08	121 57	1600	9S	1W	23		5P			1918	900
Yorkville	F8 9851	Mendocino	L. Hulbert	38 55	123 16	1100	12N	13W	2		C			1939	900
Yountville Gemble	E3 9861	Napa	DWR - L&WU	38 26 05	122 22 05	120	7N	5W	24	P	Ver		Var	1962	806

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INTERIM MONTHLY PRECIPITATION 1963

IN INCHES

STATION NUMBER	STATION NAME	JULY	AUG.	SEPT.	STATION NUMBER	STATION NAME	JULY	AUG.	SEP.
E6 0053	Alamitos Perc. Pond	0	T	.16	E2 4500	Kentfield	0	T	.13
E4 0064	Alamo 1 N	0	T	.27	F9 4502	Kent Lake	0	0	.08
E6 0125	Almaden Reservoir	0	0	.17E	D2 4555	King City	0	0	.23
F9 0135	Alpine Dam	0	0	.07	E4 4633	Lafayette 2 NNE	0	0	.37
E3 0212	Angwin Pacific Union College	0	0	T	F9 4652	Lagunitas Lake	0	0	M
02 0322	Arroyo Seco	0	0	.20	E8 4660	La Honda	0	.03	.40
D3 0360-01	Atascadero HMS	0	.02	.19	E3 4677	Lake Curry	0	0	.38
E3 0372	Atlas Road	0	0	.17	E6 4916	Leroy Anderson Dam	0	0	.14
D0 0674	Ben Lomond	0	0	.24	E6 4922	Lexington Reservoir	0	T	.35
E4 0693	Berkeley	0	.06	.10	D3 4963	Linn Ranch	0	0	.20
E6 0706	Berryessa 1 E (Toyon Ave.)	0	0	.10	E5 4996	Livermore Sewage Plant	0	.05	.36
D4 0790	Big Sur State Park	0	T	.03	E5 4997	Livermore 2 SSW	0	T	.33
E6 0850	Black Mountain 2 SW	0	.01	.18	D3 5017	Lockwood 2 N	0	0	.23
F9 0876	Blakes Landing	0	0	0	E6 5123	Los Gatos	0	0	.46
F9 0969	Bon Tempe Dam	0	0	0	E6 5123-04	Los Gatos-Old Orchard Road	0	.01	.21
F8 0973	Boonville HMS	0	0	.01	D0 5125	Los Gatos 4 SW	0	0	.17
F8 0973-02	Boonville Farrer	0	0	T	D4 5184	Lucia Willow Springs	0	0	.08
D4 0998-27	Bouchers Gap	0	0	.07	E3 5333	Mare Island	0	.05	.38
D3 1034	Bradley	0	0	.09	E4 5371	Martinez 3 S	0	0	.25
D1 1170	Buena Vista	0	0	.29E	E4 5372	Martinez 3 SSE	0	0	.52
E7 1206	Burlingame	0	0	.15	E4 5377	Martinez Fire Station	0	T	.25
E4 1216	Burton Ranch	0	.01	.26	E2 5647	Mill Valley	0	0	.06
D1 1247	Buzzard Lagoon	0	0	.32	D4 5795	Monterey	M	M	M
E5 1281	Calaveras Reservoir	0	0	.06	E6 5844	Morgan Hill 2 E	0	T	.17
E6 1285	Calero Reservoir	0	0	.15	E6 5846	Morgan Hill 6 WNW	0	0	.22
E3 1312	Calistoga	0	0	T	D1 5853	Morgan Hill SCS	0	0	.13
E6 1341-10	Cambrian Park	0	.01	.21	D6 5869	Morro Bay 3 N	0	T	.14
E6 1377-01	Campbell Water Co.	0	0	.34	E4 5915	Mt. Diablo North Gate	0	0	.20
D4 1534	Carmel Valley	0	.02	.17	E5 5933	Mt. Hamilton	0	.15	.08
F9 1602	Cazadero	0	0	.10	D1 5973	Mt. Madonna	0	0	.13
D1 1739	Chittenden Pass	0	.03	.42	D1 5973-11	Mt. Madonna County Park	.02	.09	.29
D1 1739-01	Chittenden	0	T	.33	E2 5996	Mt. Tamalpais 2 SW	0	0	.27
D1 1766	Cienaga	0	0	.25	E2 6027	Muir Woods	.01	.01	.26
F9 1838	Cloverdale 3 SSE	0	0	.15	E3 6065	Napa	0	0	.15
F9 1840	Cloverdale 11 W	0	0	0	E3 6068	Napa-Haven	0	T	.15
E4 1962	Concord 3 E	0	.02	.26	E3 6074	Napa State Hospital	0	T	.29
E3 1976	Conn	0	0	0	F9 6105	Navarro 1 NW	0	0	0
F9 2105	Coyote Dam - Lake Mendocino	0	T	0	E5 6144	Newark	0	.01	.09
E6 2109	Coyote Reservoir	0	.03	.19	F9 6187	Nicasio	0	0	0
D0 2159	Crest Ranch	0	0	.28	E2 6290	Novato 8 WNW	0	0	.05
E4 2177	Crockett	0	.02	.10	E2 6290-02	Novato Fire House	0	0	0
D0 2290	Davenport	.01	.07	.26	E4 6335	Oakland WBAP	0	.01	.28
D2 2362	Del Monte	0	0	.41	E3 6351	Oakville 1 WNW	M	M	M
E3 2580	Duttons Landing	0	T	.32	E3 6354	Oakville 4 SW	0	0	RE
E6 2919	Evergreen - Silver Creek Rd.	0	T	.13	E3 6356	Oakville 4 SW No. 2	NR	NR	NR
E3 2933	Fairfield	0	0	.33	F9 6370	Occidental	0	0	.16
E3 2934	Fairfield Police Station	0	T	.40	D1 6610	Paicines Ohrwall Ranch	0	0	.24
F8 3161	Fort Bragg	.01	.07	.19	E7 6646	Palo Alto City Hall	0	.05	.17
F8 3164	Fort Bragg Aviation	0	.05	.03	D2 6650	Paloma	0	.03	.25
F8 3191	Fort Ross	T	T	.15	D3 6703	Parkfield	0	T	.32
01 3232	Freedom 8 NNW	0	.02	.28	D3 6706	Parkfield 7 NNW	0	0	.20
D1 3238	Fremont Peak State Park	0	0	.60	E6 6791-43	Peniteacia Rain Gage	0	0	.16
E5 3387	Gerber Ranch	0	.01	.24	E2 6826	Petaluma Fire Station No. 2	0	0	.05
D1 3417	Gilroy	0	T	.36	E2 6826-01	Petaluma - Burns	0	0	0
D1 3419	Gilroy 8 NE	0	0	.27	E2 6829	Petaluma 1 N	0	0	.09
D1 3422	Gilroy 14 ENE	0	0	.25	F9 6853	Phoenix Lake Dam	0	0	.08
D2 3502	Gonzales 9 ENE	0	0	.17	D4 6856	Pico Blanco B.S. Camp	RE		
F9 3577	Graton	0	0	.04	D2 6926	Pinnacles National Monument	0	0	.13
F9 3578	Graton 1 W	0	0	.03	E5 6991-05	Pleasanton Nursery	0	T	.20
E3 3612-01	Green Valley	0	0	.36	F8 7009	Point Arena	0	0	.15
E6 3681	Guadalupe Reservoir	0	0	.18	D5 7024	Point Piedras Blancas	0	0	.18
F9 3683	Guerneville	0	T	T	E4 7070	Port Chicago NAD	0	T	.16
E8 3714	Half Moon Bay 2 NNW	0	.03	.09	E8 7086	Portola State Park	0	0	.38
D3 3722	Hames Valley	M	M	M	F9 7107	Potter Valley 3 NNW	0	0	.20
E4 3863	Hayward 6 ESE	0	0	.07	F9 7108	Potter Valley 3 SE	0	0	.20
F9 3875	Healdsburg	0	T	.01	F9 7109	Potter Valley PH	0	0	.27
F9 3878	Healdsburg 2 E	0	.02	.01	D2 7150	Priest Valley	0	T	.25
D1 3928	Hernandez 7 SE	0	.10	.91	D1 7190	Quien Sabe Hay Camp	0	T	.24
D1 4022	Hollister	0	T	.21	D1 7249	Rancho Quien Sabe	0	0	.12
01 4022-10	Hollister Costa	T	.02	.13	E7 7339	Redwood City	0	T	.29
D1 4025	Hollister No. 2	0	0	.30	E4 7414	Richmond	0	.03	.13
D1 4035	Hollister 10 ENE	0	0	.27	D4 7539-01	Roosevelt Ranch	0	.03	.04
F9 4100	Hopland Largo Station	0	T	.15	E3 7643	St. Helena	0	.02	.01
F9 4277	Inverness-Mery	0	0	0	E3 7646	St. Helena 4 WSW	0	0	0
F9 4480	Kellogg	0	.02	.09	E4 7661	St. Mary's College	0	T	.30

TABLE A-2

INTERIM MONTHLY PRECIPITATION 1963

IN INCHES

STATION NUMBER	STATION NAME	JULY	AUG.	SEPT.	STATION NUMBER	STATION NAME	JULY	AUG.	SEP.
D2 7668	Salinas 2 E	0	.02	.36					
02 7669	Salinas FAA Airport	T	T	.34					
D3 7672	Salinas Dam	0	.20	.38					
E2 7707-01	San Anselmo	0	0	.02					
D3 7714	San Antonio Mission	0	0	.09					
D2 7716	San Ardo	0	0	.07					
D1 7719	San Benito	0	0	.05					
D4 7731	San Clemente Dam	0	0	.09					
D1 7755	San Felipe Highway Station	0	0	.22E					
E8 7767	San Fraocisco Richmond Sunset	0	0	.36					
E7 7769	San Francisco WBAP	0	0	.07					
E7 7772	San Francisco Fed. Off. Bldg.	0	0	.06					
E8 7807	San Gregorio 3 SE	.02	.04	.35					
E6 7821	San Jose	0	T	.25					
E6 7824	San Jose Decid FFS	0	0	.29					
D1 7835	San Juan Bautista Mission	0	0	.20					
D2 7845-10	San Lucas Guidici	0	0	.12					
E7 7864	San Mateo	0	T	.17					
E2 7880	San Rafael	0	0	0					
E2 7880-08	San Rafael National Bank	0	T	.03					
E6 7912	Santa Clara University	0	T	.25					
D0 7916	Santa Cruz	.02	.06	.16					
D2 7959-10	Santa Rita Mather	.01	.03	.41					
F9 7964	Santa Rosa Sewage Plant	0	T	.07					
F9 7965	Santa Rosa	0	.01	.09					
F9 7965-03	Santa Rosa Pedranzini	T	T	0					
E6 7998-01	Saratoga - Clarke	0	.01	.22					
E6 7998-03	Saratoga - Kriege	0	.01	.24					
E6 8068	Searsville Lake	0	T	.35					
F9 8072	Sebastopol 4 SSE	0	0	.09					
F9 8272	Skaggs Spgs. Las Lomas Ranch	0	0	.04					
02 8276	Slack Canyon	0	0	.17					
02 8338	Soledad	0	T	.29					
02 8338-01	Soledad CTF	0	0	0					
E2 8351	Sonoma	0	T	.03					
D2 8446	Spreckels Highway Bridge	0	T	.29					
D2 8446-01	Spreckels	0	0	.36					
E6 8447	Spreckels Hill-Laguna Seca	0	0	.15					
E6 8519	Stevens Creek Reservoir	0	0	.36					
D6 8627	Suey Ranch	0	0	.40					
01 8680	Sunset Beach State Park	0	0	.27					
F9 8776-01	Talmage	0	0	.03					
E2 8779	Tamalpais Valley	0	.03	.18					
D3 8849	Templeton	0	.03	.19					
F9 8885	The Geysers	0	0	.05					
E2 8920-21	Tiburon - Topham	0	0	.10					
E3 9006	Travis Air Force Base	0	0	.23					
F9 9122	Ukiah	0	0	T					
F9 9124	Ukiah 4 WSW	.01	.01	.09					
06 9179	Upper Morro Creek	0	.02	.23					
E4 9185	Upper San Leandro Filters	0	.05	.23					
D1 9189	Upper Tres Pinos	0	0	.20					
D3 9221	Valleton	0	0	.23E					
E6 9270	Vasona Reservoir	0	T	.32					
F9 9273	Venado	0	0	.09					
E3 9305	Veteran's Home	0	0	.05					
E4 9420	Walmar School	0	0	.05					
E4 9423	Walnut Creek 2 ESE	0	0	.23					
E4 9426	Walnut Creek 2 ENE	0	0	.21					
E4 9427	Walnut Creek 4 E	0	0	.20					
01 9473	Watsonville Water Works	0	.04	.30					
00 9675	Wilder Ranch	0	0	.25					
E3 9675-41	Wild Horse Valley	0	T	.38					
F9 9770	Woodacre	0	0	.03					
E6 9814	Wrights	0	0	.18					
F8 9851	Yorkville	0	0	0					
E3 9861	Yountville Gamble	T	0	.01					

TABLE A-3

SEASONAL PRECIPITATION 1963-64

IN INCHES

NUMBER	STATION NAME	TOTAL	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
E6 0053	Alamitos Perc. Pond	11.98	1.31	3.64	.17	4.57	.29	1.16	.24	.26	.21	0	.12	.01
E4 0064	Alamo 1 N	15.54	1.41	4.57	.46	5.38	.01	2.15	.48	.55	.50	T	.03	0
E6 0125	Almaden Reservoir	21.14	1.88	7.13	.22	7.50	.37	2.24	.38	.74	.57	0	.11	0
F9 0135	Alpine Dam	33.66	2.60	12.70	2.53	8.25	.20	4.42	.45	.76	1.75	0	0	0
E3 0212	Angwin Pac. Union College	25.71	2.87	10.16	.81	7.09	.22	3.03	.09	.55	.89	0	0	0
D2 0322	Arroyo Seco	12.95	1.05	4.87	.12	3.48	.16	2.27	.08	.69	.08	0	.15	0
D3 0360-01	Atascadero HMS	11.12	.95	3.47	.13	2.70	.11	1.45	1.51	.61	.19	0	0	0
E3 0372	Atlas Road	18.13	3.32	E7.95	E.96	0	0	3.20	0	.80	.80	1.10	0	0
D0 0674	Ben Lomond	36.03	3.67	14.68	.46	8.69	.53	4.91	.23	1.46	1.25	0	.15	0
E4 0693	Berkeley	14.06	1.61	3.38	.60	4.96	.16	2.21	.05	.32	.76	T	.01	0
E6 0706	Berryessa 1 E (Toyon Ave.)	M	2.55	4.80	.32	4.40	.40	2.25	.30	.82	.80	M	M	M
D4 0790	Big Sur State Park	29.40	3.38	10.22	.41	5.57	.40	4.63	.72	2.69	1.02	0	0	.36
E6 0850	Black Mountain 2 SW	23.45	2.24	7.58	.58	6.21	.31	3.02	.48	1.59	1.31	.04	.09	T
F9 0876	Blakes Landing	M	3.41	6.38	1.05	4.09	.24	2.17	.23	.15	1.40	M	M	M
F9 0969	Bon Tempe Dam	25.60	2.64	9.24	1.48	5.83	.35	3.49	.60	.82	1.15	0	0	0
F8 0973	Boonville HMS	M	4.27	8.06	1.30	M	.34	3.34	.40	1.38	.44	T	.02	0
F8 0973-02	Boonville-Farrer	M	4.40	9.95	1.66	9.02	.35	4.26	.38	1.81	.47	M	.1	M
D4 0998-27	Bouchers Gap	M	4.15	10.87	.99	8.72	.65	5.52	1.54	2.86	RE			
D3 1034	Bradley	6.88	1.03	2.41	.06	1.78	.13	.64	.72	.11	0	0	0	0
D1 1170	Buena Vista	11.07	1.52	E2.32	.53	2.38	.31	2.74	0	.54	.49	0	.24	0
E7 1206	Burlingame	13.43	1.27	3.53	.48	4.92	.24	1.97	.13	.42	.45	0	.02	0
E4 1216	Burton Ranch	15.74	1.70	4.71	.55	5.20	.18	1.62	.61	.76	.40	T	.01	0
D1 1247	Buzzard Lagoon	M	3.60	8.09	.31	7.90	.20	4.61	.03	.61	.77	M	M	M
E5 1281	Calaveras Reservoir	13.37	2.09	E3.04	.36	3.82	.24	1.95	.37	.70	.71	0	.04	.05
E6 1285	Calero Reservoir	14.87	1.26	5.27	.22	4.88	.26	1.74	.28	.32	.54	0	.10	0
E3 1312	Calistoga	21.97	2.34	8.89	.60	5.49	.24	2.69	.16	.68	.88	T	0	T
E6 1341-10	Cambrian Park	12.14	1.31	3.76	.14	4.56	.30	.97	.35	.39	.19	0	.15	.02
E6 1377-01	Campbell Water Co.	10.90	.91	3.80	.04	3.61	.30	1.27	.36	.28	.17	T	.16	0
D4 1534	Carmel Valley	13.78	1.30	3.25	.35	3.47	.20	2.74	.46	1.36	.40	0	.25	T
F9 1602	Cazadero	44.02	6.86	18.50	.46	12.04	.72	3.07	.22	1.62	.51	.02	T	0
D1 1739	Chittendeo Pass	M	1.71	4.46	.19	4.32	.18	2.36	.20	.42	M	M	.05	M
D1 1739-01	Chittendeo	13.50	1.62	4.33	.22	4.12	.18	2.54	.08	.25	0	0	.16	0
D1 1766	Cienaga	M	1.56	2.74	.34	4.21	.32	3.20	.12	.44	.34	M	M	M
F9 1838	Cloverdale 3 SSE	30.65	4.71	11.52	1.68	6.06	.51	3.24	.66	1.17	1.05	.05	0	0
F9 1840	Cloverdale 11 W	43.22	6.71	16.75	1.94	10.67	.44	4.25	.29	1.45	.72	0	0	0
E4 1962	Concord 3 E	11.58	1.32	3.59	.47	3.88	.06	1.12	.49	.22	.40	0	.03	0
E3 1976	Conn	M	M	M	M	M	M	M	M	M	M	M	M	M
F9 2105	Coyote Dam-Lake Mendocino	24.06	4.10	7.05	1.64	5.91	.23	2.95	.76	.90	.34	.16	0	0
E6 2109	Coyote Reservoir	15.20	2.46	4.90	.15	4.43	.16	1.97	.18	.48	.34	T	.06	.07
D0 2159	Crest Ranch	M	4.00	14.85	.60	9.75	.35	4.66	.99	2.13	.10	M	M	M
E4 2177	Crockett	13.47	1.99	3.98	.47	3.77	.12	1.24	.28	.29	1.31	0	.02	0
D0 2290	Davenport	17.02	1.85	6.36	.27	4.05	.16	2.29	.48	.64	.77	.02	.09	.04
D2 2362	Del Monte	9.33	.91	2.50	.31	2.09	.32	2.21	.06	.46	.17	.04	.26	0
E3 2580	Duttons Landing	13.67	2.19	3.91	.59	3.38	.58	2.02	.12	.14	.70	T	.04	0
E6 2919	Evergreen-Silver Ck. Road	10.58	1.49	2.46	.08	3.76	.24	1.48	.38	.26	.35	0	.08	0
E3 2933	Fairfield	13.53	1.68	3.99	.36	4.00	.06	1.86	.13	.23	.88	.04	.30	0
E3 2934	Fairfield Police Station	11.97	1.96	3.38	.60	1.06	.28	1.91	.04	1.03	1.48	0	.23	0
F8 3161	Fort Bragg	31.53	4.98	9.48	1.87	7.58	.79	3.99	.64	1.29	.60	.18	.07	.06
F8 3164	Fort Bragg Aviation	29.73	5.05	9.77	1.87	8.01	.51	2.93	.18	.87	.41	.13	0	0
F8 3191	Fort Ross	26.11	4.38	10.69	1.22	5.59	.33	2.39	.10	.70	.68	.03	T	0
D1 3232	Freedom 8 NNW	M	3.46	9.33	.32	M	.25	3.67	.04	.89	.97	0	.14	0
D1 3238	Fremont Peak State Park	15.77	1.96	3.38	.60	4.06	.28	2.71	.04	1.03	1.48	0	.23	0
E5 3387	Gerber Ranch	11.52	.85	3.68	.25	4.36	.12	1.18	.25	.24	.36	0	.08	.15
D1 3417	Gilroy	14.64	1.37	5.54	.23	4.04	.12	1.75	.38	.58	.49	0	.05	.09
D1 3419	Gilroy 8 NE	14.01	1.86	4.81	.16	4.18	.11	2.00	0	.43	.31	0	.15	0
D1 3422	Gilroy 14 ENE	12.65	1.17	4.57	.11	3.85	.07	1.56	.41	.34	.32	0	T	.19
D2 3502	Gonzales 9 ENE	M	1.32	2.12	.53	2.57	.22	M	M	M	1.04	0	.31	0
F9 3577	Graton	23.81	2.09	9.76	1.21	5.84	.45	2.43	.44	.45	.94	.17	.03	0
F9 3578	Graton 1 W	25.18	2.20	10.48	1.28	5.88	.43	2.95	.30	.47	.97	.20	.02	0
E3 3612-01	Green Valley	20.93	1.94	7.31	.94	5.61	.29	2.70	.11	.49	1.36	.07	.11	0
E6 3681	Guadalupe Reservoir	18.96	1.92	6.63	.18	6.38	.32	1.61	.48	.88	.40	0	.15	.01
F9 3683	Guerneville	31.34	2.56	12.90	1.61	8.85	.64	3.00	.51	.63	.60	.04	T	0
E8 3714	Half Moon Bay 2 NNW	17.10	2.48	4.00	1.04	5.32	.52	2.46	.23	.47	.58	0	T	T
D3 3722	Hames Valley	M	M	M	M	2.07	.11	1.48	.63	.34	0	0	.05	0
E4 3863	Hayward 6 ESE	18.43	2.10	5.38	.45	5.33	.19	3.12	.06	1.01	.64	.04	.11	0
F9 3875	Healdsburg	26.50	3.14	12.09	1.26	5.74	.22	2.68	.26	.62	.46	.03	0	T
F9 3878	Healdsburg 2 E	24.95	2.96	11.07	1.26	5.43	.23	2.23	.57	.67	.47	.06	0	0
D1 3928	Hernandez 7 SE	12.25	1.21	4.67	.20	2.94	.03	2.25	.22	.51	.39	0	.13	0
D1 4022	Hollister	8.29	1.28	1.89	.18	2.38	.31	1.56	.03	.29	.24	0	.17	0
D1 4022-10	Hollister Costa	9.53	1.45	1.24	1.79	2.28	.07	1.56	.36	.47	.16	0	.15	0

TABLE A-3

SEASONAL PRECIPITATION 1963-64

IN INCHES

NUMBER	STATION NAME	TOTAL	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
D1 4025	Hollister No. 2	8.05	1.41	1.93	.13	2.14	.28	1.42	0	.32	.21	0	.21	0
D1 4035	Hollister 10 ENE	M	1.89	E3.96	.49	3.72	.29	2.94	.48	M	1.05	0	.22	0
F9 4100	Hopland Largo Station	M	3.74	7.58	1.66	6.80	.30	2.53	.55	1.12	.48	M	0	0
F9 4277	Inverness-Mery	26.40	2.55	10.70	1.65	6.70	.40	2.95	0	.35	1.10	0	0	0
F9 4480	Kellogg	33.84	3.86	13.00	1.16	8.53	.32	3.47	.47	1.73	1.16	.05	T	.09
E2 4500	Kentfield	29.33	3.28	9.49	1.49	7.42	.27	4.26	.54	.67	1.88	T	.03	0
D2 4555	King City	M	.76	1.73	.06	1.40	0	M	.01	.28	0	0	.13	0
E4 4633	Lafayette 2 NNE	16.66	1.65	4.76	.55	5.33	.16	1.89	.95	.68	.67	0	.02	0
F9 4652	Lagunitas Lake	33.37	3.26	11.89	1.71	8.11	.45	4.48	.89	1.09	1.49	0	0	0
E8 4660	La Honda	23.41	2.46	6.36	.65	7.12	.40	3.32	.26	1.58	.86	.30	.10	0
E3 4677	Lake Curry	M	2.79	6.24	.74	4.57	.16	2.55	.14	.29	.89	.03	M	M
E6 4916	Leroy Anderson Dam	13.59	1.62	4.63	.14	4.19	.21	1.67	.43	.19	.35	0	.16	0
E6 4922	Lexington Reservoir	23.85	2.78	8.42	.37	6.93	.23	2.82	.41	.87	.79	0	.22	.01
D3 4963	Linn Ranch	9.12	1.08	2.93	0	2.24	.20	1.51	.86	.25	.01	0	.04	0
E5 4996	Livermore Sewage Plant	10.39	.91	3.38	.17	2.78	.10	1.83	.05	.50	.46	0	.21	0
E5 4997	Livermore 2 SSW	9.49	.93	3.18	.19	2.37	.08	1.57	.21	.48	.32	T	.12	.04
D3 5017	Lockwood 2 N	9.23	.89	2.96	0	1.98	.17	1.59	.95	.49	0	0	.20	0
E6 5123	Los Gatos	16.91	2.00	6.62	.13	5.68	.20	1.31	.23	.41	.15	0	.18	0
E6 5123-04	Los Gatos-Old Orchard Rd.	13.06	1.51	4.52	.16	4.72	.22	1.08	.32	.27	.16	0	.10	0
D0 5125	Los Gatos 4 SW	27.98	3.72	10.75	.92	6.91	.33	3.55	.30	.12	1.15	0	.23	0
D4 5184	Lucia Willow Springs	18.78	2.18	7.14	.20	3.82	.12	3.54	.28	.79	.60	0	.11	0
E3 5333	Mare Island	M	1.76	3.97	.51	3.71	.23	1.46	.11	.42	.82	0	.04	M
E4 5371	Martinez 3 S	14.97	1.69	4.09	.55	4.65	.13	1.86	.50	.27	1.23	0	0	0
E4 5372	Martinez 3 SSE	M	1.61	3.80	.60	4.53	.10	1.71	M	.33	1.07	0	.02	0
E4 5377	Martinez Fire Station	13.29	1.48	3.48	.43	3.97	.14	1.56	.71	.42	1.10	T	T	0
E2 5647	Mill Valley	M	2.12	6.07	1.23	4.43	.17	2.16	.53	.49	1.26	M	M	M
D4 5795	Monterey	13.66	1.46	3.77	.53	3.50	.42	2.23	.22	.86	.22	.09	.35	.01
E6 5844	Morgan Hill 2 E	M	1.40	4.82	.20	4.28	.24	1.62	.41	.19	M	0	.14	M
E6 5846	Morgan Hill 6 WNW	17.92	1.14	7.14	.21	5.70	.35	2.29	.07	.35	.57	0	.10	0
D1 5853	Morgan Hill SCS	14.05	1.30	5.25	.14	4.40	.25	1.92	.03	.14	.42	0	.20	0
D6 5869	Morro Bay 3 N	10.92	1.58	3.94	T	1.70	.13	2.65	.12	.65	.05	0	.10	0
E4 5915	Mt. Diablo North Gate	16.20	1.80	4.95	.48	5.17	0	1.85	.29	.59	.91	.02	.14	0
E5 5933	Mt. Hamilton	15.10	1.47	3.18	.81	3.61	.32	2.97	.66	1.30	.66	T	.12	0
D1 5973	Mount Madonna	25.37	3.00	7.73	.38	8.16	.25	3.86	.11	.94	.73	0	.21	0
D1 5973-11	Mt. Madonna Co. Park	24.49	2.80	7.57	.51	7.40	.33	3.01	.38	1.13	.86	.06	.23	.21
E2 5996	Mt. Tamalpais 2 SW	25.37	2.56	8.31	1.95	6.85	.23	3.14	*	V.61	1.67	0	.05	0
E2 6027	Muir Woods	23.48	2.93	7.69	2.02	5.87	.13	2.21	.35	.59	1.66	0	.03	0
E3 6065	Napa	M	2.65	5.43	.73	3.52	.15	1.72	.12	.16	.60	.10	M	0
E3 6068	Napa Haven	NR	2.65	4.83	.76	3.66	.12	1.96	.18	.17	.74	0	RE	
E3 6074	Napa State Hospital	16.07	2.83	5.71	.73	3.46	.19	2.09	.10	.15	.65	.10	.06	0
F9 6105	Navarro 1 NW	27.72	3.87	8.98	1.50	7.50	.60	3.65	.12	1.28	.22	0	0	0
E5 6144	Newark	10.25	1.21	2.93	.24	3.54	0	1.31	.07	.45	.41	0	.09	0
F9 6187	Nicasio	26.73	2.38	9.92	1.17	8.55	.22	3.02	.06	.25	1.16	0	0	0
E2 6290	Novato 8 WNW	M	E2.11	7.23	1.17	4.86	.16	M	M	M	1.20	0	0	0
E2 6290-02	Novato Fire House	M	2.01	5.81	.90	4.09	.15	2.01	.44	.31	1.95	M	M	M
E4 6335	Oakland WBAP	11.88	1.44	3.19	.42	3.90	.23	1.94	.03	.24	.43	.03	.03	0
E3 6351	Oakville 1 WNW	M	1.84	5.61	.70	6.04	.32	M	0	M	.32	M	M	M
E3 6356	Oakville 4 SW No. 2	M	3.02	9.88	.98	6.90	M	M	.11	.57	.80	.10	.02	0
F9 6370	Occidental	32.40	2.86	14.01	1.68	7.96	.48	3.05	.37	.89	1.04	.02	.04	0
D1 6610	Paicines Ohrwall Ranch	10.38	1.07	2.27	.34	3.21	.20	2.38	.08	.39	.20	0	0	.24
E7 6646	Palo Alto City Hall	9.42	.88	2.95	.14	3.17	.21	.97	0	.53	.45	0	.12	0
D2 6650	Paloma	19.96	1.16	6.30	.88	3.28	.72	4.30	.86	2.10	.21	T	.15	0
D3 6703	Parkfield	M	1.00	2.87	T	2.21	.05	1.12	.67	.56	M	0	0	.28
D3 6706	Parkfield 7 NNW	M	E1.20	3.72	.10	1.22	.09	.57	.09	.49	0	0	M	0
E6 6791-43	Penetencia Rain Cage	12.15	2.01	3.46	.29	3.40	.33	1.34	.32	.44	.56	0	0	0
E2 6826	Petaluma F.S. No. 2	15.97	1.52	5.60	.92	4.63	.26	1.81	.08	.21	.84	.10	T	0
E2 6826-01	Petaluma-Burns	M	1.75	7.25	1.05	5.30	.20	2.20	.20	.25	1.30	M	M	M
E2 6829	Petaluma 1 N	M	E1.57	5.06	.72	4.21	.23	1.88	.12	.25	M	M	M	M
F9 6853	Phoenix Lake Dam	31.50	3.42	11.95	1.30	7.35	.30	4.25	.60	.85	1.40	0	0	.08
D2 6926	Pinnacles National Mon.	11.42	1.28	1.91	.26	3.01	.08	3.06	.43	.73	.40	0	.26	0
E5 6991-05	Pleasanton Nursery	13.71	1.06	4.63	.30	4.10	.11	2.33	.11	.74	.27	0	.06	0
F8 7009	Point Arena	29.38	5.55	E10.69	1.46	5.63	.48	3.19	.37	1.14	.79	.08	0	0
D5 7024	Point Piedras Blancas	M	.37	4.07	.16	2.77	.38	2.83	.52	M	.12	0	.11	0
E4 7070	Port Chicago NAD	10.03	1.27	2.95	.35	3.41	.03	.98	.18	.14	.70	0	.02	0
E8 7086	Portols State Park	M	2.61	8.90	.80	7.15	.42	3.65	1.00	1.84	.91	M	M	M
F9 7107	Potter Valley 3 NNW	M	4.89	9.46	1.77	8.07	.43	3.82	*	V1.20	.20	M	0	M
F9 7108	Potter Valley 3 SE	20.29	3.85	5.71	1.45	5.72	.33	2.14	.20	.30	.54	.05	0	0
F9 7109	Potter Valley PH	32.22	5.63	10.10	1.96	8.18	.49	3.82	.52	1.13	.34	.05	0	0
D2 7150	Priest Valley	13.07	1.53	5.11	.20	2.98	.07	1.95	.53	.43	.09	T	.13	.05
D1 7190	Quien Sabe Hay Camp	13.14	1.39	2.59	.61	3.38	.30	2.58	.38	.92	.70	T	0	.29

TABLE A-3

SEASONAL PRECIPITATION 1963-64

IN INCHES

NUMBER	STATION NAME	TOTAL	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
D1 7249	Rancho Quien Sabe	M	1.39	2.72	.51	3.96	.14	3.41	.22	.88	.87	M	M	M
E7 7339	Redwood City	12.25	.95	3.98	.26	3.60	.27	1.67	.13	.56	.75	T	.08	0
E4 7414	Richmond	13.04	1.82	3.81	.49	3.90	.23	1.40	.37	.22	.79	T	.01	0
D4 7539-01	Roosevelt Ranch	21.81	3.30	7.14	.40	4.10	.31	3.58	.41	1.65	.70	T	0	.22
E3 7643	St. Helena	20.12	1.84	8.00	.74	5.32	.15	2.69	.11	.48	.75	.04	T	0
E3 7646	St. Helena 4 WSW	27.98	2.47	10.27	.75	7.68	.32	3.62	.19	.96	1.10	.02	0	0
E4 7661	St. Mary's College	19.32	1.94	5.43	.66	6.36	.38	2.85	.35	.88	.39	.08	T	0
D2 7668	Salinas 2 E	10.61	1.46	2.42	.26	2.29	.10	2.46	.31	.75	.36	0	.20	T
D2 7669	Salinas FAA Airport	10.26	1.53	2.39	.34	1.97	.11	2.45	.21	.66	.40	T	.20	T
D3 7672	Salinas Dam	12.66	1.21	3.62	.10	3.30	.18	1.96	1.26	.71	.16	T	0	.16
E2 7707-01	San Anselmo	M	2.89	9.92	.93	5.65	.15	3.16	.66	.65	1.55	M	M	M
D3 7714	San Antonio Mission	9.39	.74	3.56	0	3.14	.06	1.50	0	.39	0	T	0	0
D2 7716	San Ardo	6.64	.92	2.66	0	1.48	.10	.70	.50	.15	0	0	0	.13
D1 7719	San Benito	M	1.14	1.93	.14	2.09	.29	2.36	.02	.14	.37	0	M	0
D4 7731	San Clemente Dam	15.87	1.30	4.33	.46	4.00	.46	2.70	.77	1.38	.17	0	0	.30
D1 7755	San Felipe Highway Sta.	M	1.56	3.62	E.25	3.34	.08	M	.03	.50	M	0	.17	0
E8 7767	San Fran. Richmond Sunset	12.08	1.78	3.12	.86	3.45	.29	1.79	.02	.18	.52	.06	.01	0
E7 7769	San Francisco WBAP	12.72	1.34	3.29	.55	4.38	.27	1.95	.01	.32	.60	0	.01	T
E7 7772	San Fran. Fed. Off. Bldg.	12.27	1.39	3.52	.87	3.37	.19	2.12	.01	.22	.57	0	.01	T
E8 7807	San Gregorio 3 SE	20.33	2.95	6.32	.79	5.22	.42	2.59	.11	.92	.77	.15	.09	T
E6 7821	San Jose	10.01	1.17	3.00	.12	3.20	.23	1.14	.21	.38	.56	T	T	0
E6 7824	San Jose Decid FFS	11.08	1.42	3.53	.16	3.57	.20	1.08	.43	.34	.22	0	.13	0
D1 7835	San Juan Bautista Miss.	11.76	1.44	4.01	.25	3.38	.18	1.60	.07	.40	.24	0	0	.19
D2 7845-10	San Lucas Guidici	5.48	.84	.68	1.16	1.20	.06	1.36	.09	.09	0	T	0	
E7 7864	San Mateo	13.44	1.16	4.72	.41	4.18	.27	1.85	.11	.30	.36	0	.08	0
E2 7880	San Rafael	23.10	2.52	7.87	.95	4.73	.20	3.28	.56	.68	2.28	T	.03	0
E2 7880-08	San Rafael Nat. Bank	20.54	2.72	7.37	.77	3.48	.13	2.59	.65	.60	2.20	0	T	.03
E6 7912	Santa Clara University	10.29	1.24	2.97	.20	3.41	.19	1.23	.29	.31	.27	T	.18	0
D0 7916	Santa Cruz	19.03	1.85	6.72	.33	5.33	.20	3.26	.16	.44	.37	0	.17	.20
D2 7959-10	Santa Rita Muther	9.77	1.69	1.02	1.95	2.06	.06	1.79	.22	.39	.34	.01	.24	T
F9 7964	Santa Rosa Sewage Plant	19.08	2.18	7.53	.89	4.24	.32	2.24	.19	.34	1.14	0	.01	0
F9 7965	Santa Rosa	20.29	2.61	7.53	.81	5.19	.33	1.97	.33	.40	1.10	T	.02	0
F9 7965-03	Santa Rosa Pedranzini	17.32	1.75	4.97	2.66	3.99	.09	2.09	.24	.32	1.15	.04	.02	0
E6 7998-01	Saratoga Clarke	12.33	1.27	4.55	.10	3.73	.18	1.34	.35	.44	.20	0	.17	0
E6 7998-03	Saratoga Kriege	14.28	1.46	5.13	.10	4.36	.21	1.67	.36	.51	.28	0	.20	0
E6 8068	Searsville Lake	19.07	1.34	5.92	.74	6.15	.26	2.55	.37	.90	.79	T	.05	0
F9 8072	Sebastopol 4 SSE	19.47	1.51	7.36	1.03	5.10	.27	2.17	.31	.37	1.25	.10	0	0
F9 8272	Skaggs Spg. Las Lomas Ranch	41.16	6.34	14.69	1.74	11.11	.33	3.64	.48	1.96	.87	0	0	0
D2 8276	Slack Canyon	10.10	1.59	3.80	.08	2.15	.13	1.81	.13	.28	0	0	.13	0
D2 8338	Soledad	7.28	1.14	1.30	.17	1.64	.09	1.54	.38	.61	.21	T	T	.20
D2 8338-01	Soledad CTF	7.02	1.00	1.29	.15	1.48	.06	1.45	.32	.60	.27	0	.20	.20
E2 8351	Sonoma	19.53	2.30	6.99	.96	5.62	.20	2.18	.21	.25	.75	.04	.03	0
D2 8446	Spreckels Hwy. Br.	10.60	1.35	2.38	.42	2.24	.18	2.31	.39	.67	.42	T	T	.24
D2 8446-01	Spreckels	10.52	1.36	2.34	.31	1.98	.12	2.62	.38	.56	.45	0	.30	0
E6 8447	Spreckels Hill-Laguna Seca	11.04	.99	4.01	.15	3.87	.28	1.06	.14	0	.44	0	.10	0
E6 8519	Stevens Creek Reservoir	18.32	1.92	5.58	.23	5.75	.22	2.67	.24	.95	.60	0	.14	.02
D6 8627	Suey Ranch	10.17	1.83	2.87	.21	1.10	.14	2.20	1.01	.38	.33	T	.10	0
D1 8680	Sunset Beach State Park	12.62	2.38	3.73	.33	3.31	.26	2.03	.11	.27	.10	0	.10	0
F9 8776-01	Talmage	20.96	3.60	7.18	1.36	5.11	.28	2.26	.65	.48	0	0	0	0
E2 8779	Tamalpais Valley	M	2.49	6.95	1.60	4.85	.18	2.47	.51	.73	1.62	M	M	M
D3 8849	Templeton	M	1.16	3.90	.04	2.59	.12	1.48	M	.92	.14	0	.09	0
F9 8885	The Geysers	34.96	5.15	12.16	.98	9.86	.30	4.17	.30	1.34	.58	0	0	.12
E2 8920-21	Tiburon-Topham	M	.90	6.87	.74	4.25	.05	1.34	.49	.43	1.34	M	M	M
E3 9006	Travis Air Force Base	M	1.03	3.67	.44	3.09	.03	M	M	M	M	M	M	M
F9 9122	Ukiah	25.10	3.68	7.75	1.68	6.77	.34	3.17	.46	.92	.19	.14	0	0
F9 9124	Ukiah 4 WSW	33.66	4.32	9.52	2.36	9.60	.56	4.05	.67	1.99	.50	.04	.05	0
D6 9179	Upper Morro Creek	M	1.91	6.77	.25	3.18	.09	5.12	.06	1.09	.71	M	M	M
E4 9185	Upper San Leandro Filters	15.97	1.81	4.12	.58	5.26	.19	2.35	.32	.50	.75	.04	.05	0
D1 9189	Upper Tres Pinos	M	.76	1.59	.36	2.45	.22	M	.30	.36	M	0	.23	0
D3 9221	Valleton	7.10	1.42	2.63	0	1.62	0	1.08	.20	.05	0	0	.10	0
E6 9270	Vasona Reservoir	13.08	1.31	4.96	.12	4.28	.18	1.37	.26	.23	.19	0	.18	0
F9 9273	Venado	36.25	4.86	15.38	1.45	8.95	.32	3.36	.32	1.16	.43	.02	0	0
E3 9305	Veterans Home	19.15	2.63	6.66	.76	4.76	.23	2.90	.26	.16	.56	.20	.03	0
E4 9420	Walnar School	13.65	1.25	4.56	.21	4.28	.10	1.64	.27	.62	.72	0	0	0
E4 9423	Walnut Creek 2 ESE	13.57	1.34	3.82	.40	4.85	.10	1.73	.50	.40	.40	0	.03	0
E4 9426	Walnut Creek 2 ENE	11.94	1.24	3.64	.36	4.16	.13	1.53	.27	.33	.27	T	.01	0
E4 9427	Walnut Creek 4 E	11.49	1.27	3.23	.43	4.16	.12	1.23	.29	.48	.27	T	.01	0
D1 9473	Watsonville Water Works	14.47	2.59	4.48	.26	4.68	.18	1.89	0	.23	0	0	.05	.11
D0 9675	Wilder Ranch	M	1.48	5.58	.33	4.82	.23	3.28	.41	.47	.70	M	M	M
E3 9675-41	Wild Horse Valley	28.04	2.83	10.05	1.11	6.51	.39	4.14	.38	1.00	1.57	.06	0	0

TABLE A-3

SEASONAL PRECIPITATION 1963-64

IN INCHES

NUMBER	STATION NAME	TOTAL	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
F9 9770	Woodacre	28.37	3.55	10.24	1.19	6.40	.31	3.81	.43	.82	1.58	T	.04	0
E6 9814	Wrights	27.67	3.83	9.85	.22	7.21	.30	3.13	.30	1.23	1.32	0	.28	0
F8 9851	Yorkville	30.20	5.13	10.13	1.57	7.61	.33	3.04	.28	1.39	.70	.02	0	0
E3 9861	Yountville Gamble	17.28	2.32	6.44	.82	4.27	.18	2.23	.14	.21	.61	.03	.03	0

TABLE A-4

INTERIM MONTHLY TEMPERATURE 1963

IN DEGREES FAHRENHEIT

STATION NUMBER	STATION NAME		JULY	AUG.	SEPT.	STATION NUMBER	STATION NAME		JULY	AUG.	SEP.
E6 0053	Alamitos Perc Pond	Max	96	94	98	F9 3578	Graton 1W	Max	97	97	96
		Min	46	46	50			Min	42	43	44
		Avg Max	81.4	82.1	81.9			Avg Max	82.2	85.3	82.0
		Avg Min	51.6	52.2	55.4			Avg Min	48.0	47.7	49.4
		Avg	66.5	67.2	68.6			Avg	65.1	66.5	65.7
E4 0064	Alamo 1N	Max	97	99	100	E8 3714	Half Moon Bay 2NNW	Max	69	73	73
		Min	34	43	47			Min	46	46	48
		Avg Max	84.0	86.9	84.6			Avg Max	65.0	64.1	67.0M
		Avg Min	51.3	52.4	54.3			Avg Min	51.5	51.0	52.3M
		Avg	67.6	69.6	69.4			Avg	58.3	57.6	59.7M
E3 0212	Angwin Pac. Uninn Col.	Max	96	98	99	E2 3734	Hamilton AFB	Max	95	92	96
		Min	40	45	47			Min	45	48	48
		Avg Max	85.4	86.2M	83.0			Avg Max	76.1	80.8	80.1
		Avg Min	50.5	54.8M	56.3			Avg Min	51.5	53.1	54.1
		Avg	68.0	70.5M	69.7			Avg	63.8	67.0	67.1
D3 0360-01	Atascadero HMS	Max	102	102	105	F9 3875	Nealdsburg	Max	102	104	105
		Min	44	44	50			Min	41	47	48
		Avg Max	91.2	91.0	89.6			Avg Max	88.5	90.6	89.5
		Avg Min	53.4	53.6	55.5			Avg Min	50.6	52.9	54.0
		Avg	72.3	72.3	72.6			Avg	69.6	71.8	71.8
D0 0674	Ben Lomond	Max	93	95	98	D1 4022	Hollister	Max	94	96	103
		Min	41	44	42			Min	44	42	47
		Avg Max	80.6	81.5	83.6			Avg Max	79.1	79.8M	84.5
		Avg Min	46.9	47.8	47.5			Avg Min	49.5	50.2M	51.8
		Avg	63.8	64.7	65.6			Avg	64.3	65.0M	68.2
E4 0693	Berkeley	Max	88	82	87	F9 4277	Inverness-Nery	Max	NR	NR	NR
		Min	51	51	53			Min	NR	NR	NR
		Avg Max	70.7	70.8	73.6			Avg Max	NR	NR	NR
		Avg Min	54.3	53.8	56.4			Avg Min	NR	NR	NR
		Avg	62.6	62.3	65.0			Avg	NR	NR	NR
E7 1206	Burlingame	Max	92	85	89	E2 4500	Kentfield	Max	97	96	98
		Min	44	44	47			Min	44	46	47
		Avg Max	75.8	75.9	78.4			Avg Max	80.2	82.8M	83.4M
		Avg Min	50.6	49.8	53.5			Avg Min	50.8	50.6M	53.6M
		Avg	63.2	62.9	66.0			Avg	65.5	66.7M	68.5M
D4 1534	Carmel Valley	Max	93	93	96	D2 4555	King City	Max	97	97	105
		Min	41	39	44			Min	35	44	43
		Avg Max	76.2	77.1	81.4			Avg Max	82.7	83.5	87.0
		Avg Min	45.6	47.6	50.8			Avg Min	48.9	49.6	51.6
		Avg	60.9	62.4	66.1			Avg	65.8	66.6	69.3
F9 1838	Cloverdale 3SSE	Max	103	102	104	E6 4922	Lexington Reservoir	Max	97	98	97
		Min	46	46	48			Min	41	41	46
		Avg Max	87.4	89.2	86.8			Avg Max	84.2	85.4	84.7
		Avg Min	52.7	53.3	53.8			Avg Min	48.7	50.0	51.9
		Avg	70.1	71.3	70.3			Avg	66.7	67.1	68.3
F9 2105	Coyote Dam (Lake Mendocino)	Max	102	104	106	D3 4963	Linn Ranch	Max	99	100	100
		Min	41	42	44			Min	47	46	49
		Avg Max	86.9	91.0	90.0			Avg Max	90.3	89.0	88.0
		Avg Min	49.0	50.6	49.2			Avg Min	53.1	53.5	54.8
		Avg	68.0	70.8	69.6			Avg	71.7	71.3	71.4
E6 2109	Coyote Reservoir	Max	96	98	108	E5 4996	Livermore Sewage Plant	Max	98		105
		Min	44	40	45			Min	42	39	44
		Avg Max	84.7	85.4	86.5			Avg Max	83.3		85.3
		Avg Min	49.2	49.6	50.7			Avg Min	47.2	48.0	52.7
		Avg	67.0	67.5	69.1			Avg	65.2		68.8
E4 2177	Crockett	Max	98	96	102	E5 4997	Livermore 2SSW	Max	99	102	105
		Min	51	51	53			Min	43	43	45
		Avg Max	82.2	84.1	83.6			Avg Max	85.8	88.1	86.1
		Avg Min	54.3	55.2	57.7			Avg Min	49.8	50.3	52.0
		Avg	68.3	69.7	70.7			Avg	67.8	69.2	69.1
D0 2290	Davenport	Max	73	73	77	E6 5123	Los Gatos	Max	95	95	101
		Min	45	48	50			Min	40	41	44
		Avg Max	63.7	64.0	68.9			Avg Max	81.4	83.6	82.9
		Avg Min	50.3	53.0	53.3			Avg Min	48.0	48.0	51.6
		Avg	57.0	58.5	61.1			Avg	64.7	65.8	67.3
E3 2580	Duttons Landing	Max	95	96	101	E3 5333	Mare Island Naval SY	Max	97	93	99
		Min	45	48	49			Min	56	56	55
		Avg Max	79.2M	79.8	83.2			Avg Max	82.2	81.6	83.0
		Avg Min	51.7M	52.6	53.8			Avg Min	60.2	60.2	62.3
		Avg	65.5M	66.2	68.5			Avg	71.2	70.9	72.6
E3 2934	Fairfield Police Sta.	Max	101	102	104	E4 5377	Martinez Fire Sta.	Max	102	100	98
		Min	45	52	50			Min	48	49	50
		Avg Max	86.7	88.7	89.5			Avg Max	85.2	86.0	84.4
		Avg Min	54.2	56.8	56.9			Avg Min	54.1	54.5	56.4
		Avg	70.5	72.8	73.2			Avg	69.7	70.3	70.4
D1 3238	Fremont Peak State Pk.	Max	94	94	102	D4 5795	Monterey	Max	M	M	M
		Min	43	43	45			Min	M	M	M
		Avg Max	83.3	82.0	79.8			Avg Max	M	M	M
		Avg Min	59.4	61.9	60.2			Avg Min	M	M	M
		Avg	71.4	72.0	70.0			Avg	M	M	M
D1 3417	Gilroy	Max	98	99	108	E4 5915	Mt. Diablo North Gate	Max	97	99	105
		Min	46	42	44			Min	45	47	49
		Avg Max	85.9	87.4	87.9			Avg Max	83.8	86.3	83.8
		Avg Min	50.4	51.2	53.6			Avg Min	55.5	60.0	58.5
		Avg	68.2	69.3	70.8			Avg	69.7	73.2	71.2
F9 3557	Graton	Max	97	95	96	E5 5933	Mt. Hamilton	Max	84	86	90
		Min	42	44	46			Min	43	42	43
		Avg Max	81.2	83.5	83.3			Avg Max	75.1M	76.5	76.0M
		Avg Min	50.2	49.2	51.7			Avg Min	58.0M	60.5	58.7M
		Avg	65.7	66.4	67.5			Avg	66.6M	68.5	67.4M

TABLE A-4

INTERIM MONTHLY TEMPERATURE 1963

IN DEGREES FAHRENHEIT

STATION NUMBER	STATION NAME		JULY	AUG.	SEPT.	STATION NUMBER	STATION NAME		JULY	AUG.	SEP.
E3 6068	Napa - Haven	Max	98	100	102	E4 7661	Saint Mary's College	Max	97	99	99
		Min	43	46	46			Min	47	44	43
		Avg Max	82.9	84.1	85.6			Avg Max	81.3	83.9	83.2
		Avg Min	49.7	51.1	51.8			Avg Min	52.0	52.3	53.0
		Avg	66.3	67.6	68.7			Avg	66.7	68.1	68.1
E3 6074	Napa State Hospital	Max	99	100	105	D2 7668	Salinas 2E	Max	90	84	93
		Min	44	41	46			Min	48	42	48
		Avg Max	82.4	83.8	86.3			Avg Max	72.2	72.9	77.9
		Avg Min	51.5	51.8	53.3			Avg Min	51.6	51.9	52.9
		Avg	67.0	67.8	69.8			Avg	61.9	62.4	65.4
E5 6144	Newark	Max	M	M	94	02 7669	Salinas FAA Airport	Max	M	83	95
		Min	M	M	51			Min	M	48	49
		Avg Max	M	M	79.3			Avg Max	M	72.3	77.2
		Avg Min	M	M	56.0			Avg Min	M	53.2	53.3
		Avg	M	M	67.7			Avg	M	62.8	65.3
E4 6335	Oakland WBAP	Max	94	88	87	D3 7714	San Antonio Mission	Max	103	103	106
		Min	50	53	55			Min	38	40	43
		Avg Max	71.7	72.5	74.3			Avg Max	94.6	95.7	94.1M
		Avg Min	55.5	55.3	58.8			Avg Min	46.4	49.6	50.1M
		Avg	63.6	63.9	66.6			Avg	70.5	72.7	72.1M
E7 6646	Palo Alto City Hall	Max	96	89	95	E8 7767	San Fran. Richmond Sunset	Max	75	68	79
		Min	45	45	48			Min	50	48	52
		Avg Max	77.6	77.7	79.0			Avg Max	64.3	63.5	69.1
		Avg Min	52.9	52.8	54.9			Avg Min	53.0	52.4	55.2
		Avg	65.3	65.3	67.0			Avg	58.7	58.0	62.2
E2 6826	Petaluma F.S. No. 2	Max	99	98	102	E7 7769	San Francisco WBAP	Max	94	86	93
		Min	45	41	46			Min	50	50	53
		Avg Max	80.2	84.0	85.8			Avg Max	70.9	73.0	76.2
		Avg Min	50.5	49.7	52.2			Avg Min	53.5	53.9	56.4
		Avg	65.4	66.9	69.0			Avg	62.2	63.5	66.3
D2 6926	Pinnacles National Mon.	Max	102	102	105	E7 7772	San Francisco Federal Office Building	Max	88	79	88
		Min	41	42	45			Min	52	51	54
		Avg Max	92.6	93.9	93.1			Avg Max	65.3	65.9	72.0
		Avg Min	47.7	50.2	51.8			Avg Min	54.1	53.6	57.4
		Avg	70.2	72.1	72.5			Avg	59.7	59.8	64.7
E5 6991-05	Pleasanton Nursery	Max	99	102	102	E8 7807	San Gregorio 3SE	Max	89	78	88
		Min	43	42	46			Min	41	41	44
		Avg Max	86.2	88.4	86.1			Avg Max	68.8	68.8	73.8
		Avg Min	50.6	50.9	53.1			Avg Min	48.8	47.8	49.9
		Avg	68.4	69.6	69.6			Avg	58.8	58.3	61.9
F8 7009	Point Arena	Max	72	70	80	E6 7821	San Jose	Max	97	93	98
		Min	39	47	45			Min	49	50	53
		Avg Max	65.6	64.0	69.2			Avg Max	79.3	88.2	80.0
		Avg Min	48.7	50.1	51.4			Avg Min	54.8	55.6	57.8
		Avg	57.2	57.1	60.3			Avg	66.9	67.2	69.3
D5 7024	Point Piedras Blancas	Max	69	70	73	E6 7824	San Jose Decid FFS	Max	97	93	100
		Min	46	50	51			Min	47	50	52
		Avg Max	64.9	65.9M	67.6			Avg Max	82.4	83.5	83.2
		Avg Min	50.1	52.0	53.7			Avg Min	53.8	55.1	57.1
		Avg	57.5	59.0M	60.7			Avg	68.1	69.3	70.2
E4 7070	Port Chicago NAD	Max	99	99	100	E7 7864	San Mateo	Max	97	91	96
		Min	43	45	47			Min	51	51	50
		Avg Max	85.3	87.5	84.7			Avg Max	76.1	77.5	79.7
		Avg Min	52.4	52.5	53.9			Avg Min	54.5	54.1	56.3
		Avg	68.9	70.0	69.3			Avg	65.3	65.8	68.0
F9 7109	Potter Valley P.H.	Max	100	103	102	E2 7880	San Rafael	Max	98	98	99
		Min	38	42	40			Min	47	47	50
		Avg Max	M	91.9M	91.3M			Avg Max	79.6M	81.6M	84.5M
		Avg Min	M	49.1M	47.9M			Avg Min	53.5M	53.1M	56.1M
		Avg	M	70.5M	69.6M			Avg	66.6M	67.4M	70.3M
D2 7150	Priest Valley	Max	100	102	104	E6 7912	Santa Clara University	Max	97	NR	96
		Min	35	35	38			Min	46	NR	50
		Avg Max	91.3	91.5	89.0			Avg Max	80.3m	NR	81.1M
		Avg Min	45.0	45.2	46.3			Avg Min	52.7m	NR	54.7M
		Avg	68.2	68.4	67.7			Avg	66.5m	NR	67.9M
D1 7190	Quien Sabe Hay Camp	Max	91	93	101	D0 7916	Santa Cruz	Max	95	91	96
		Min	34	32	38			Min	43	42	45
		Avg Max	81.3	75.3	81.8			Avg Max	77.0	76.4	81.0
		Avg Min	42.7	44.0	46.6			Avg Min	48.7	49.3	51.0
		Avg	62.0	59.6	64.2			Avg	62.9	62.9	66.0
E7 7339	Redwood City	Max	98	98	99	D2 7959-10	Santa Rita Muther	Max	M	M	81
		Min	46	46	50			Min	M	M	44
		Avg Max	83.0	83.9	85.1			Avg Max	M	M	68.9
		Avg Min	52.6	52.5	54.6			Avg Min	M	M	49.8
		Avg	67.8	68.2	69.9			Avg	M	M	59.4
E4 7414	Richmond	Max	88	84	95	F9 7964	Santa Rosa Sewage Plt.	Max	96	93	98
		Min	53	52	54			Min	42	44	45
		Avg Max	71.1	70.7	76.6			Avg Max	77.7	80.4	82.1
		Avg Min	56.1	55.7	58.7			Avg Min	48.4	49.4	50.9
		Avg	63.6	63.2	67.7			Avg	63.0	64.9	66.5
D4 7539-01	Roosevelt Ranch	Max	86	92	90	F9 7965	Santa Rosa	Max	99	99	103
		Min	51	51	56			Min	43	44	45
		Avg Max	73.2	74.2	77.9			Avg Max	82.8	86.0	85.9
		Avg Min	57.4	58.8	64.1			Avg Min	49.2	49.5	50.8
		Avg	65.3	66.5	71.0			Avg	66.0	67.8	68.4
E3 7643	Saint Helena	Max	102	103	103	D2 8338-01	Soledad CTF	Max	91	86	103
		Min	42	44	46			Min	45	42	46
		Avg Max	86.9	89.1	88.6			Avg Max	74.7	74.5	80.7
		Avg Min	50.9	52.3	52.0			Avg Min	49.8	49.7	51.3
		Avg	68.9	70.7	70.3			Avg	62.3	62.1	66.0

TABLE A-4

INTERIM MONTHLY TEMPERATURE 1963

IN DEGREES FAHRENHEIT

STATION NUMBER	STATION NAME		JULY	AUG.	SEPT.
E2 8351	Sonoma	Max	100	103	103
		Min	41	43	44
		Avg Max	86.1	89.0	89.2
		Avg Min	48.1	48.8	50.5
		Avg	67.1	68.9	69.9
D2 8446-01	Spreckels	Max	90	85	90
		Min	48	45	46
		Avg Max	72.1	72.8	77.4
		Avg Min	51.7	50.5	51.8
		Avg	61.9	61.6	64.6
D3 8849	Templeton	Max	100	103	107
		Min	41	43	47
		Avg Max	88.9	89.6	89.8
		Avg Min	49.9	50.6	52.9
		Avg	69.4	70.1	71.3
F9 9122	Ukiah	Max	103	103	103
		Min	44	46	47
		Avg Max	88.5	90.4	88.8
		Avg Min	51.9	53.2	51.8
		Avg	70.2	71.9	70.3
E4 9185	Upper San Leandro Filters	Max	92	88	93
		Min	49	50	52
		Avg Max	72.5	74.6	76.9
		Avg Min	52.9	53.2	55.3
		Avg	62.7	63.9	66.1
E3 9305	Veterans Home	Max	101	101	101
		Min	41	40	40
		Avg Max	88.4	88.9	85.9
		Avg Min	52.2	51.9	51.7
		Avg	70.3	70.4	68.8
E4 9423	Walnut Creek 2ESE	Max	99	101	101
		Min	46	47	45
		Avg Max	84.9	88.0	85.3
		Avg Min	51.1	51.0	52.3
		Avg	68.0	69.5	68.8
D1 9473	Watsonville Water Wks.	Max	89	83	90
		Min	45	41	47
		Avg Max	71.6	70.2	75.8
		Avg Min	49.8	49.6	51.2
		Avg	60.7	59.9	63.5
E3 9675-41	Wild Horse Valley	Max	96	96	M
		Min	48	48	M
		Avg Max	82.9	83.7	M
		Avg Min	54.9	58	M
		Avg	68.9	70.8	M
F9 9770	Woodacre	Max	100	98	101
		Min	38	41	44
		Avg Max	81.9	82.6	84.0
		Avg Min	47.8	48.9	49.9
		Avg	64.9	65.8	66.9

STATION NUMBER	STATION NAME		JULY	AUG.	SEP.

TABLE A-5

MONTHLY TEMPERATURES 1963-64
IN DEGREES FAHRENHEIT

NUMBER	STATION NAME		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
E6-0053	Alamitos Perc. Pond	Max	87	70	72	64	75	79	87	82	99	95	101	99
		Min	39	36	29	30	30	26	35	34	41	45	48	44
		Avg Max	73.4	62.6	55.5	57.0	63.9	63.8	69.1	69.9	76.3	82.9	81.5	81.4
		Avg Min	51.0	42.9	35.1	37.6	38.0	39.0	42.8	45.1	50.2	53.9	54.1	51.8
		Avg	62.2	52.8	45.3	47.3	51.0	51.4	56.0	57.5	63.2	68.4	67.8	66.6
E4-0064	Alamo 1 N	Max	92	71	59	61	72	76	87	86	101	101	99	96
		Min	39	35	30	29	29	29	34	37	42	46	42	43
		Avg Max	73.2	60.5	48.6	54.3	60.7	63.0	70.3	71.6	79.0	87.5	89.7	81.0
		Avg Min	48.6	41.4	34.8	35.4	35.4	37.1	40.8	44.3	50.4	52.1	54.3	49.5
		Avg	60.9	51.0	41.7	44.9	48.1	50.0	55.6	58.0	64.7	69.8	72.0	65.2
E3-0212	Angwin Pacific Union College	Max	92	66	62	61	71	74	83	82	99	99	99	98
		Min	40	36	33	29	26	29	28	27	37	43	44	38
		Avg Max	68.1	56.6	54.9	50.5	60.3	57.6	66.5	70.6	78.3	87.8	88.0	81M
		Avg Min	50.9	44.7	40.3	36.7	39.9	38.3	39.9	41.6	48.8	53.2	53.1	49M
		Avg	59.5	50.7	47.6	43.6	50.1	48.0	53.2	56.1	63.6	70.5	70.6	65M
D3-0360-01	Atascadero HMS	Max	96	80	73	76	76	80	94	88	106	105	104	100
		Min	38	32	24	24	25	24	31	34	42	46	46	40
		Avg Max	79.3	65.9	67.6	62.8	66.5	65.5	70.8	74.8	85.8	93.9	94.7	83.2
		Avg Min	48.9	39.3	30.2	31.0	29.9	34.4	39.3	41.7	50.9	55.1	56.2	47.4
		Avg	64.1	52.6	48.9	46.9	48.2	50.0	55.0	58.2	68.4	74.5	75.4	65.3
D0-0674	Ben Lomond	Max	92	71	67	63	72	72	84	82	88	93	93	98
		Min	36	32	28	29	30	29	33	33	42	41	45	40
		Avg Max	75.2	60.9	61.0	57.0	63.7	64.4	67.2	68.8	76.4	83.1	82.4	79.5
		Avg Min	45.9	40.5	34.2	35.3	33.4	35.8	39.7	42.9	49.9	49.4	48.0	47.2
		Avg	60.6	50.7	47.6	46.2	48.6	50.1	53.5	55.9	63.2	66.3	65.2	63.4
E4-0693	Berkeley	Max	75	68	63	62	75	75	85	72	83	82	82	91
		Min	45	41	34	37	39	36	40	43	49	51	53	51
		Avg Max	68.3	61.0	54.6	54.7	61.5	59.7	62.6	61.9	68.3	69.9	69.5	71.0
		Avg Min	52.9	48.0	39.7	41.7	43.5	43.5	46.3	48.1	52.4	53.8	55.4	55.0
		Avg	60.6	54.5	47.2	48.2	52.5	51.6	54.5	55.0	60.4	61.9	62.5	63.0
E7-1206	Burlingame	Max	81	70	62	61	75	76	85	78	89	95	94	95
		Min	41	37	29	31	31	33	34	37	45	46	47	44
		Avg Max	72.0	62.7	53.7	57.2	63.8	63.9	67.1	67.8	73.9	78.0	78.8	78.4
		Avg Min	50.5	44.3	37.1	38.8	37.8	41.5	42.4	45.4	50.6	52.3	51.9	49.3
		Avg	61.3	53.5	45.4	48.0	50.8	52.7	54.8	56.6	62.3	65.2	65.4	63.9
D4-1534	Carmel Valley	Max	81	80	78	69	82	80	92	76	85	88	91	98
		Min	38	32	29	30	28	29	32	33	37	39	39	36
		Avg Max	74.9	67.3	67.3	61.6	66.6	63.2	65.7	66.1	72.6	75.3	77.5	77.3
		Avg Min	47.8	43.1	38.6	36.8	35.0	36.4	39.2	40.5	46.0	47.6	47.0	47.0
		Avg	61.4	55.2	53.0	49.2	50.8	49.8	52.5	53.3	59.3	61.5	62.3	62.2
F9-1838	Cloverdale 3 SSE	Max	90	74	64	68	81	82	92	87	104	105	104	107
		Min	42	34	29	30	29	33	34	38	44	47	48	42
		Avg Max	71.9	61.7	52.9	55.1	66.3	64.3	69.6	73.3	81.9	91.9	91.9	85.6
		Avg Min	48.4	41.3	34.3	36.2	36.1	39.2	41.8	44.4	51.7	52.2	53.5	49.7
		Avg	60.2	51.5	43.6	45.7	51.2	51.8	55.7	58.9	66.8	72.1	72.7	67.2
F9-2105	Coyote Dam (Lake Mendo.)	Max	101	75	72	69	81	81	91	82	102	106	103	104
		Min	34	32	25	26	24	27	32	32	42	44	47	38
		Avg Max	77.7	62.5	65.2	55.1	68.2	64.3	71.5	70.4	80.7	89.0	92.0	87.0
		Avg Min	45.5	38.8	32.1	34.5	29.8	33.5	36.5	40.9	48.9	50.8	51.4	44.6
		Avg	61.6	50.6	48.6	44.8	49	48.9	54.0	55.7	64.9	69.9	72.7	65.8

TABLE A-5

MONTHLY TEMPERATURES 1963-64

IN DEGREES FAHRENHEIT

NUMBER	STATION NAME		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
E6-2109	Coyote Reservoir	Max	93	74	68	63	72	78	90	88	104	102	100	102
		Min	32	27	24	23	25	28	28	33	40	39	41	36
		Avg Max	74.1	61.5	57.6	55.1	62.3	62.2	67.9	71.8	80.2	88.0	86.8	82.1
		Avg Min	45.5	38.2	31.3	32.4	31.1	34.0	36.7	40	46.7	48.4	48.1	44.8
		Avg	59.8	49.8	44.4	43.8	46.7	48.1	52.3	55.9	63.5	68.2	67.4	63.4
E4-2177	Crockett	Max	83	71	56	63	77	78	85	80	99	100	97	99
		Min	44	38	31	31	33	34	37	42	50	50	53	48
		Avg Max	74.0	60.5	46.5	54.6	64.0	63.1	68.1	70.1	77.6	84.5	84.1	80.4
		Avg Min	52.8	45.4	36.6	37.9	38.3	41.5	44.2	47.0	53.2	54.4	56.2	54.4
		Avg	63.4	53.0	41.6	46.3	51.2	52.3	56.2	58.6	65.4	69.5	70.2	67.4
D0-2290	Davenport	Max	72	73	77	72	72	70	74	62	69	72	68	81
		Min	46	42	39	37	38	38	39	41	45	46	48	45
		Avg Max	65.9	61.1	60.2	56.3	59.4	56.2	57.0	56.0	61.2	77.7	63.5	66.2
		Avg Min	52.4	48.7	45.6	42.8	43.3	42.5	43.3	44.8	49.3	50.1	51.7	50.4
		Avg	59.2	54.9	52.9	49.6	51.4	49.4	50.2	50.4	55.2	63.9	57.6	58.3
E3-2580	Duttons Landing	Max	82	71	57	64	79	80	88	81	94	93	91	99
		Min	38	36	30	29	30	32	34	35	43	43	49	42
		Avg Max	72.3	61.8	50.4	55.5	65.2	64.3	69.0	68.7	75.3	78.6	78.8	80.0
		Avg Min	48.7	42.0	35.1	35.6	35.4	40.0	41.1	43.2	50.2	52.0	53.5	49.9
		Avg	60.5	51.9	48.7	45.6	50.0	52.2	55.1	56	62.8	65.0	66.2	65.0
E3-2934	Fairfield Police Sta.	Max	96	73	57	65	NR	80	89	88	102	103	103	102
		Min	39	34	25	29	31	32	33	40	47	51	50	48
		Avg Max	76.8	62.0	48.1	55.9	M	66.8	72.7	73.8	81.6	88.7	89.3	86.4
		Avg Min	50.3	42.7	35.5	35.6	M	40.9	44.0	47.5	53.7	55.8	56.3	53.4
		Avg	63.6	52.4	41.8	45.8	M	53.9	58.4	60.7	67.7	72.3	72.8	69.9
D1-3238	Fremont Peak State Park	Max	90	80	83	71	82	82	86	92	102	97	94	89
		Min	42	27	24	26	26	26	28	32	35	42	36	31
		Avg Max	71.4	58.9	64.1	55.6	62.8	57.2	62.0	63.5	73.3	83.5	79.4	72.8
		Avg Min	52.4	45.8	43.5	37.2	37.3	37.7	42.7	44.9	51.8	60.8	57.6	48.2
		Avg	61.9	52.4	53.8	46.4	50.0	47.4	52.4	54.2	62.6	72.2	68.5	60.5
D1-3417	Gilroy	Max	90	75	71	66	76	80	93	92	103	103	103	105
		Min	36	30	27	24	27	28	34	31	40	42	39	42
		Avg Max	76.6	64.1	58.3	58.8	65.5	65.2	70.7	73.7	81.9	88.4	88.3	83.2
		Avg Min	49.4	41.5	31.6	32.3	30.7	36.5	39.6	43.0	47.9	50.4	51.0	47.6
		Avg	63.0	52.8	45.0	45.6	48.1	50.9	55.2	58.4	64.9	69.4	69.7	65.4
F9-3557	Graton	Max	88	72	59	65	78	79	92	84	98	104	102	106
		Min	38	35	28	31	31	32	30	33	39	41	43	38
		Avg Max	72.9	61.4	50.0	54.7	65.2	63.6	70.5	71.3	79.8	85.2	86.7	84.7
		Avg Min	49.9	43.7	38.7	38.3	36.1	38.5	37.9	42.1	48.0	49.5	50.0	47.0
		Avg	61.4	52.6	44.4	46.5	50.7	51.0	54.2	56.7	63.9	67.4	68.4	65.9
F9-3578	Graton 1 W	Max	86	69	57	63	78	78	87	81	99	99	99	101
		Min	36	33	25	28	27	27	30	33	40	40	42	38
		Avg Max	69.9	59.1	48.6	53.7	64M	63.0	69.3	70.7	79.3	85.4	85.9	82.9
		Avg Min	48.4	42.4	35.6	35.4	33M	34.7	37.6	40.9	47.2	48.1	48.7	46.7
		Avg	59.2	50.8	42.1	44.6	49M	48.9	53.5	55.8	63.3	66.8	67.3	64.8
E8-3714	Half Moon Bay 2 NNW	Max	75	68	70	69	72	73	77	64	68	72	69	84
		Min	43	41	35	35	36	33	38	37	42	46	48	46
		Avg Max	67.5	62.0	62.0	59.0	64.4	59.6	57.7	57.9	62.2	64.4	66M	66.2
		Avg Min	51.5	48.8	41.4	39.8	40.3	40.9	44.3	45.7	49.8	51.8	52M	50.9
		Avg	59.5	55.4	51.7	49.4	52.4	50.3	51.0	51.8	56.0	58.1	59M	58.6

TABLE A-5

MONTHLY TEMPERATURES 1963-64
IN DEGREES FAHRENHEIT

NUMBER	STATION NAME		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
F9-3875	Healdsburg	Max	97	77	60	67	82	85	93	89	105	106	105	108
		Min	42	35	29	31	31	34	34	37	44	46	47	42
		Avg Max	76.0	63.3	51.0	56.4	68.0	66.8	73.8	75.5	83.5	91.1	90.9	87.7
		Avg Min	50.8	44.4	37.0	36.8	35.6	39.8	42.8	45.0	51.2	52.1	52.9	51.4
		Avg	63.4	53.9	44.0	46.6	51.8	53.3	58.3	60.3	67.4	71.6	71.9	69.6
D1-4022	Hollister	Max	82	75	69	68	79	80	93	84	90	92	95	103
		Min	34	28	25	24	26	27	31	M	41	43	43	40
		Avg Max	75.2	64.4	60.5	59.7	66.6	65.5	69.9	70.0	74.9	80.5	82M	81.0
		Avg Min	48.1	39.4	30.5	34.4	31.2	35.1	39.8	42M	46.9	49.1	49M	M
		Avg	61.7	51.9	45.5	47.1	48.9	50.3	54.9	56M	60.9	64.8	65M	M
F9-4277	Inverness Mery	Max	NR	NR	NR	68	80	76	82	74	90	82	92	92
		Min	NR	NR	NR	32	33	32	34	38	40	40	42	40
		Avg Max	NR	NR	NR	60.0	65.6	61.2	64.7	63.8	70.8	74.4	74.8	74.6
		Avg Min	NR	NR	NR	41.0	38.3	40.4	42.1	45.4	48.8	50.9	51.2	49.8
		Avg	NR	NR	NR	50.5	52.0	50.8	53.4	54.6	59.8	62.6	63.0	62.2
E2-4500	Kentfield	Max	85	70	59	64	78	79	87	84	95	98	99	100
		Min	40	37	30	31	33	33	34	37	44	45	47	42
		Avg Max	72.1	61.4	49.7	55.3	64.6	64M	68M	69.4	76.6	83.3	83M	79.8
		Avg Min	50.2	44.6	37.5	37.7	37.3	39M	41M	44.5	50.1	51.1	52M	49..
		Avg	61.2	53.0	43.6	46.5	51.0	52M	54M	57.0	63.4	67.2	67M	64.6
D2-4555	King City	Max	87	82	77	74	79	83	95	87	N	101	95	104
		Min	34	29	25	23	25	26	32	32	N	46	M	40
		Avg Max	78.5	68M	67M	62M	69M	68.3	73M	73.0	M	M	86.6 M	84M
		Avg Min	48.7	41M	32M	35M	32M	35.7	40M	42.5	48.7	M	M	46M
		Avg	63.6	54M	50M	48M	51M	52.0	57M	57.8	M	M	M	65M
E6-4922	Lexington Reservoir	Max	90	74	68	65	71	79	86	85	102	101	100	101
		Min	36	31	27	27	29	29	31	33	39	40	40	38
		Avg Max	73.5	61.3	56.4	56.0	62.9	61.8	67.8	70.7	78.8	86.7	84.8	81.6
		Avg Min	47.0	40.9	33.3	35.5	34.4	36.1	39.1	40.7	45.8	48.9	48.7	47.3
		Avg	60.2	51.1	44.8	45.8	48.7	49.0	53.4	55.7	62.3	67.8	66.8	64.4
D3-4963	Linn Ranch	Max	93	72	72	70	71	80	89	89	105	M	M	M
		Min	37	30	24	24	26	25	32	33	44	M	M	M
		Avg Max	74.4	61.9	59.8	56.8	63.6	63.4	70.2	74.4	85.2	M	M	M
		Avg Min	49.4	40.7	29.9	32.4	31.1	33.8	39.2	43.0	50.7	M	M	M
		Avg	61.9	51.3	44.9	44.6	47.4	48.6	54.7	58.7	68.0	M	M	M
E5-4996	Livermore Sewage Treatment Plant	Max	98	74	66	63	74	80	86	86	102	102	101	100
		Min	22	30	22	22	24	26	30	34	42	45	44	36
		Avg Max	75.9	64.9	54.0	57.2	63.3	60.1	69.8	70.7	79.1	86.5	86.7	83.4
		Avg Min	44.6	38.0	31.6	32.7	30.8	36.9	37.6	42.5	49.5	52.6	51.7	47.5
		Avg	60.0	51.4	42.8	45.0	47.0	48.5	53.7	56.6	64.3	69.6	69.2	65.5
E5-4997	Livermore 2 SSW	Max	98	72	61	64	73	79	90	90	105	105	104	100
		Min	35	28	20	22	26	25	29	34	41	42	43	44
		Avg Max	75.9	62.5	50.4	55.7	62.4	63.1	70.0	72.9	79.2	88.9	88.6	83.0
		Avg Min	45.6	37.5	29.2	31.5	31.0	34.9	37.5	40.1	47.2	50.4	52.1	49.9
		Avg	60.8	50.0	39.8	43.6	46.7	49.0	53.8	56.5	63.2	69.7	70.4	66.5
E6-5123	Los Gatos	Max	85	69	69	63	71	81	89	84	100	99	98	98
		Min	40	31	30	31	31	31	35	37	45	46	47	44
		Avg Max	73.5	61.5	55.1	57.6	62.8	64.5	69.6	70.2	78.5	83.5	83.7	81.2
		Avg Min	47.8	41.2	35.0	36.2	35.0	39.5	42.1	44.9	49.9	53.6	53.4	50.3
		Avg	60.7	51.4	45.1	46.9	48.9	52.0	55.9	57.6	64.2	68.6	68.6	65.8

TABLE A-5

MONTHLY TEMPERATURES 1963-64
IN DEGREES FAHRENHEIT

NUMBER	STATION NAME		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
E3-5333	Mare Island	Max	84	72	55	62	76	80	90	87	95	95	M	M
		Min	48	42	33	37	40	38	41	43	51	55	M	M
		Avg Max	72.9	60.6	47.0	54.4	63.8	65.8	70.7	73.5	78.9	82.0	M	M
		Avg Min	57.1	49.4	39.8	42.6	44.2	46.7	49.1	51.8	57.3	59.6	M	M
		Avg	65.0	55.0	43.4	48.5	54.0	56.2	59.9	62.6	68.1	70.8	M	M
E4-5377	Martinez Fire Sta.	Max	88	72	58	62	80	80	90	86	102	102	100	102
		Min	40	36	28	30	33	33	35	40	47	49	52	48
		Avg Max	73.8	61.0	47.3	54.2	64.0	64.2	69.8	72.9	79.6	86.6	86.7	82.2
		Avg Min	50.5	43.4	35.9	35.7	37.0	40.7	43.6	47.6	53.3	55.0	55.7	52.8
		Avg	62.2	52.2	41.6	45.0	50.5	52.5	56.7	60.3	66.5	70.8	71.2	67.5
D4-5795	Monterey	Max	80	76	75	64	73	75	84	69	76	84	81	95
		Min	46	42	34	36	38	37	39	42	47	48	48	48
		Avg Max	68.5	63.7	61.3	57.7	62.1	58.4	59.1	59.1	64.7	66.3	66.3	69.3
		Avg Min	53.1	48.8	44.6	42.5	43.1	42.8	44.2	46.1	50.1	51.6	52.2	51.7
		Avg	60.8	56.3	53.0	50.1	52.6	50.6	51.7	52.6	57.4	59.0	59.3	60.5
E4-5915	Mt. Diablo North Gate	Max	90	72	74	73	68	77	85	84	101	104	100	100
		Min	39	34	32	31	33	31	31	32	40	45	46	44
		Avg Max	70.8	58.7	60.2	54.4	60.3	58.8	66.3	68.3	76.4	87.9	88.9	81.5
		Avg Min	51.6	45.1	42.3	37.6	40.8	39.3	41.8	43.9	50.4	58.8	59.0	54.6
		Avg	61.2	51.9	51.3	46.0	50.6	49.1	54.1	56.1	63.4	73.4	74.0	68.1
E5-5933	Mt. Hamilton	Max	87	69	68	58	63	65	75	75	89	89	88	89
		Min	34	28	26	25	24	22	25	27	34	38	38	38
		Avg Max	64M	52M	55M	45M	52M	47M	56M	58M	67M	78M	78M	72M
		Avg Min	M	40M	42M	33M	36M	33M	38M	43M	49M	61M	62M	54M
		Avg	M	46M	49M	39M	44M	40M	47M	51M	58M	70M	70M	63M
E3-6068	Napa - Haven	Max	90	80	60	64	80	80	89	88	100	100	RE	
		Min	35	30	24	26	28	26	31	34	40	44	RE	
		Avg Max	74.5	62.8	52.7	55.4	65.1	64.7	71.7	72.2	77.1	84.6	RE	
		Avg Min	47.1	40.2	33.3	34.6	32.7	36.5	39.0	46.6	47.5	50.4	RE	
		Avg	60.8	51.5	43.0	45.0	48.9	50.6	55.4	59.4	62.3	67.5	RE	
E3-6074	Napa State Hospital	Max	89	72	62	66	80	85	90	85	98	101	98	104
		Min	36	33	28	28	30	29	31	33	42	46	49	42
		Avg Max	75.5	63.7	53.8	56.8	66.4	66.6	70.9	72.3	78.4	83.6	83.2	83.0
		Avg Min	49.1	42.6	34.2	36.0	35.9	36.8	40.9	43.5	49.7	52.9	53.4	49.7
		Avg	62.3	53.2	44.0	46.4	51.2	51.7	55.9	57.9	64.1	68.3	68.3	66.4
E5-6144	Newark	Max	81	70	62	61	78	76	85	76	94	92	92	94
		Min	41	39	30	30	30	29	37	40	49	52	54	50
		Avg Max	71.7	62.3	54.0	56.7	62.7	61.2	66.0	65.0	72.8	75.5	76M	76.0
		Avg Min	52.3	45.4	36.5	38.6	36.9	40.4	44.3	47.3	52.8	57.0	58M	55.8
		Avg	62.0	53.9	45.3	47.7	49.8	50.8	55.2	56.2	62.8	66.3	67M	65.9
E4-6335	Oakland WBAP	Max	76	67	61	62	72	74	78	65	83	84	83	89
		Min	46	44	35	36	41	43	39	44	51	53	55	53
		Avg Max	67.8	59.2	50.4	53.4	59.6	58.2	61.3	60.0	65.6	68.3	70.1	71.6
		Avg Min	56.1	48.8	40.3	43.3	45.0	47.4	48.7	50.4	54.6	56.1	57.8	56.6
		Avg	62.0	54.0	45.4	48.4	52.3	52.8	55.0	55.2	60.1	62.2	64.0	64.1
E7-6646	Palo Alto City Hall	Max	81	71	62	64	75	76	85	77	93	93	93	95
		Min	37	33	27	29	30	33	31	37	43	45	47	44
		Avg Max	71.1	61.9	53.2	55.9	62.9	62.3	66.8	66.7	72.9	77M	77.6	77.2
		Avg Min	48.7	42.8	34.8	36.2	35.0	40.2	41.8	45.0	50.5	55M	54.4	49.2
		Avg	59.9	52.4	44.0	46.1	49.0	51.3	54.3	55.9	61.7	66M	66.0	63.2

TABLE A-5

MONTHLY TEMPERATURES 1963-64
IN DEGREES FAHRENHEIT

NUMBER	STATION NAME		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
E2-6826	Petaluma F. S. No. 2	Max	90	73	60	65	80	79	88	80	99	99	100	104
		Min	36	31	25	25	28	29	29	35	41	42	42	42
		Avg Max	74.6	63.0	50.9	56.5	65.9	63.9	68.1	68.7	76.2	82.4	83.6	83.0
		Avg Min	48.8	42.5	35.9	35.0	34.4	37.1	39.9	43.5	48.2	50.1	50.4	49.0
		Avg	61.7	52.8	43.4	45.8	50.2	50.5	54.0	56.1	62.2	66.3	67.0	66.0
D2-6926	Pinnacles Nat'l Mon.	Max	101	82	78	77	79	82	92	89	107	105	102	104
		Min	32	26	24	24	25	26	29	31	40	42	42	38
		Avg Max	80.7	66.0	67.6	60.4	67.8	65.4	72.8	75.3	85.6	95.5	95.1	89.2
		Avg Min	44.7	38.3	32.0	32.2	30.3	35M	37.7	40.5	46M	50.8	50.2	44.4
		Avg	62.7	52.2	49.8	46.3	49.1	50M	55.3	57.9	66M	73.2	72.7	66.8
E5-6991-05	Pleasanton Nursery	Max	96	78	61	60	74	86	90	90	106	104	103	101
		Min	33	30	25	24	26	28	32	35	40	44	47	43
		Avg Max	74.6	60.7	51.5	55.8	63.9	63.8	71	73	79.7	88.9	88.7	83.9
		Avg Min	47.5	40.5	34.2	34.7	32.0	37.2	39.9	43.6	48.9	51.5	51.6	48.3
		Avg	61	50.6	42.8	45.2	48.0	50.5	55.4	58.3	64.3	70.2	70.2	66.1
F8-7009	Point Arena	Max	72	67	73	71	72	65	60	64	82	72	76	91
		Min	37	36	33	31	30	31	33	34	45	43	44	39
		Avg Max	65.9	59.9	57.8	54.5	58.6	54.9	56.2	57.9	63.3	64.4	66.0	65.9
		Avg Min	48.6	45.0	41.7	38.7	37.7	38.2	39.9	42.7	48.0	48.9	50M	46.3
		Avg	57.3	52.5	49.8	46.6	48.2	46.6	48.1	50.3	55.7	56.7	58M	56.1
D5-7024	Point Piedras Blancas	Max	72	72	72	64	70	70	71		68	70	74	76
		Min	50	43	41	40	40	38	36	M	43	42	44	41
		Avg Max	67M	63.5	63.0	60.1	62.2	59.0	59.7	M	63.2	64.3	65.8	66.0
		Avg Min	53.9	50.2	46.5	45.5	45.4	43.7	41.8	M	45.3	45.4	48.5	47.9
		Avg	60M	56.9	54.8	52.8	53.8	51.4	50.8	M	54.3	54.9	57.2	57.0
E4-7070	Port Chicago NAD	Max	91	71	57	62	77	80	87	87	102	104	100	99
		Min	37	33	28	M	28	28	30	35	47	49	48	45
		Avg Max	74.7	61.4	47.3	55M	64.1	64.2	70.8	72.7	80.0	87.5	87.2	82.7
		Avg Min	48.4	40.8	34.7	36M	33.2	35.8	39.5	44M	51.0	53.5	53.8	50.5
		Avg	61.6	51.1	41.0	46M	48.7	50.0	55.2	58M	65.5	70.5	70.5	66.6
F9-7109	Potter Valley P.H.	Max	99	71	M	71	81	80	89	88	104	108	104	105
		Min	30	27	21	23	24	22	28	28	40	44	39	38
		Avg Max	76M	61M	M	54M	68M	M	72M	77M	M	95M	95.4	M
		Avg Min	47M	37M	M	30M	28M	M	33M	40M	M	51M	50.3	M
		Avg	60M	49M	M	42M	48M	M	53M	58M	M	73M	72.9	M
D2-7150	Priest Valley	Max	97	73	72	76	69	76	86	87	104	103	101	99
		Min	25	23	19	15	16	18	24	22	32	36	40	30
		Avg Max	74.4	61.1	61.9	55.2	61.6	60.9	68.0	73M	83.8	93.7	93.1	86.2
		Avg Min	40.1	33.1	24.5	25.4	23.8	28.1	32.0	36M	42.9	49.0	49.0	38.7
		Avg	57.3	47.1	43.2	40.3	42.7	44.5	50.0	54M	63.4	71.4	71.1	62.5
D1-7190	Quien Sabe Hay Camp	Max	93	76	74	71	71	75	88	85	101	101	95	101
		Min	24	23	18	15	14	21	20	27	32	35	39	32
		Avg Max	71.1	61.5	63.4	58.4	60.4	59.4	66.6	68.7	76.5	85.6	83.1	79.9
		Avg Min	40.8	35.5	27.2	28.8	23.8	29.8	32.6	35.8	43.7	47.3	47.3	40.8
		Avg	56.0	48.5	45.3	44.1	42.1	44.6	49.6	52.2	60.1	66.5	65.2	60.4
E7-7339	Redwood City	Max	83	71	65	65	76	79	89	86	97	98	98	99
		Min	40	35	29	31	30	32	36	39	45	45	48	45
		Avg Max	74.3	63.9	55.5	58.2	65.1	65.0	70.4	71.9	78.5	83.6	84.3	82.8
		Avg Min	50.6	44.2	36.3	38.7	36.8	40.5	42.3	45.4	50.4	52.4	53.6	49.9
		Avg	62.5	54.1	45.9	48.5	51.0	52.8	56.4	58.7	64.5	68.0	69.0	66.4

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IN DEGREES FAHRENHEIT

NUMBER	STATION NAME		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
E4-7414	Richmond	Max	78	71	63	64	78	78	87	72	83	85	84	95
		Min	44	40	33	35	37	37	38	44	50	51	54	52
		Avg Max	70.7	63.1	54.3	56.6	64.0	61.8	64.7	63.5	68.7	68.8	69.9	73.0
		Avg Min	53.9	47.5	38.9	41.1	42.2	44.1	47.5	50.3	54.2	54.7	56.8	55.8
		Avg	62.3	55.3	46.6	48.9	53.1	53.0	56.1	56.9	61.5	61.8	63.4	64.4
D4-7539-01	Roosevelt Ranch	Max	79	72	71	73	72	75	85	78	85	84	86	90
		Min	51	48	48	44	43	41	42	43	49	50	52	50
		Avg Max	69.2	62.3	63.3	60.7	63.2	59.8	63.2	63.5	69.2	73.5	73.9	70.5
		Avg Min	57.1	53.9	54.0	50.9	49.7	47.7	50.1	49.4	54.5	57.9	58.1	56.1
		Avg	63.2	58.1	58.6	55.8	56.4	53.8	56.6	56.4	61.8	65.7	66.0	63.3
E3-7643	Saint Helena	Max	97	74	65	68	80	82	91	88	104	105	105	106
		Min	37	32	26	26	27	29	30	33	42	44	45	40
		Avg Max	74.6	62.2	53.8	55.3	67.1	65.0	73.2	74.6	81.6	90.3	90.2	86.3
		Avg Min	48.8	41.3	34.2	34.4	34.0	36.4	39.2	43.2	50.0	51.8	51.9	48.9
		Avg	61.7	51.8	44.0	44.9	50.6	50.7	56.2	58.9	65.8	71.1	71.1	67.6
E4-7661	Saint Mary's College	Max	91	67	59	61	74	77	87	86	102	101	99	96
		Min	36	30	24	25	25	27	29	34	45	45	44	41
		Avg Max	71.5	58.5	48.8	53.7	63.0	61.8	68.1	68.1	77.4	83.2	82.8	79.0
		Avg Min	47.0	39.9	33.8	33.5	31.6	35.0	38.3	43.2	50.2	54.0	53.6	49.5
		Avg	59.3	49.2	41.3	43.6	47.3	48.4	53.2	55.7	63.8	68.6	68.2	64.3
D2-7668	Salinas 2 E	Max	82	79	78	71	80	78	90	71	82	86	84	97
		Min	38	34	28	27	29	30	30	40	45	47	45	37
		Avg Max	74.1	66.6	65.6	61.0	67.4	63.4	65M	64.7	70.0	71.8	72.7	74.3
		Avg Min	50.3	43.1	37.5	36.5	35.2	38.6	42M	45.6	50.3	52.0	53.1	49.4
		Avg	62.2	54.9	51.6	48.8	51.3	51.0	53M	55.2	60.2	61.9	62.9	61.9
D2-7669	Salinas FAA Airport	Max	83	78	77	67	80	80	91	72	83	87	85	98
		Min	39	36	30	28	31	32	36	40	47	50	47	46
		Avg Max	73M	65.5	64.8	59.9	66.8	63.8	64.8	65.2	70.9	71.4	72.2	73.7
		Avg Min	52M	44.4	38.1	37.8	37.4	40.3	42.9	46.9	52.5	53.8	53.9	51.5
		Avg	62M	55.0	51.5	48.9	52.1	52.1	53.9	56.1	61.7	62.6	63.1	62.6
D3-7714	San Antonio Mission	Max	97	80	75	76	75	82	90	92	108	106	105	104
		Min	31	26	22	21	23	22	28	25	38	39	39	37
		Avg Max	80.1	66.5	66M	60M	67.3	67M	73.7	78.5	88.4	98.0	97.5	91.1
		Avg Min	43.5	36.4	29M	29M	28.0	31M	34.3	36.6	44.9	49.6	47.9	43.0
		Avg	61.8	51.5	48M	44M	47.7	49M	54.0	57.6	66.7	73.8	72.7	67.1
E8-7767	San Fran. Richmond Sunset	Max	75	69	60	69	72	72	77	63	69	68	69	90
		Min	44	42	36	35	36	34	38	42	47	46	49	47
		Avg Max	M	62.8	54.2	57.1	61.5	57.8	59.3	58.3	61.9	62.1	64.8	67.3
		Avg Min	52.9	47.7	40.7	41.7	42.2	42.6	45.6	47.9	50.8	52.3	55.0	55.3
		Avg	M	55.3	47.5	49.4	51.9	50.2	52.5	53.1	56.4	57.2	59.9	61.3
E7-7769	San Francisco WBAP	Max	82	68	64	61	72	74	85	70	91	91	89	92
		Min	45	39	33	33	36	36	40	43	49	51	52	48
		Avg Max	70.4	61.9	53.3	56.3	61.6	60.6	63.4	63.7	69.7	71.6	73.1	73.2
		Avg Min	54.0	46.9	39.2	40.0	40.0	43.1	45.0	47.9	52.8	54.5	55.4	53.7
		Avg	62.2	54.4	46.3	48.2	50.8	51.9	54.2	55.8	61.3	63.1	64.3	63.5
E7-7772	San Fran. Fed. Off. Bldg.	Max	78	69	61	66	75	75	82	66	81	81	80	92
		Min	52	45	37	42	44	43	44	44	49	50	52	50
		Avg Max	68.7	61.6	53.1	56.1	62.4	58.9	59.7	58.3	63.6	64.6	65.5	69.0
		Avg Min	57.1	51.7	43.4	45.8	47.6	47.4	47.8	48.4	52.0	53.1	54.5	55.8
		Avg	62.9	56.6	48.3	51.0	55.0	53.2	53.8	53.4	57.8	58.9	60.0	62.4

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MONTHLY TEMPERATURES 1963-64
IN DEGREES FAHRENHEIT

NUMBER	STATION NAME		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
E8-7807	San Gregorio 3 SE	Max	78	M	77	68	74	74	83	65	80	83	83	89
		Min	36	M	30	29	27	28	33	32	40	40	41	39
		Avg Max	69.4	M	63.3	58.4	62.8	58.5	60.4	59.8	66.0	68.2	69.6	71M
		Avg Min	48.0	M	38.7	38.0	34.8	37.6	39.9	42.8	47.7	49.6	49.4	48M
		Avg	58.7	M	51.0	48.2	48.8	48.1	50.2	51.3	56.9	58.9	59.5	60M
E6-7821	San Jose	Max	M	M	M	65	76	80	87	80	95	94	94	98
		Min	M	M	M	34	36	35	39	41	48	48	48	46
		Avg Max	M	M	M	58.6	64.9	63.9	68.4	68.7	75.7	79.9	79.4	80M
		Avg Min	M	M	M	41.2	40.6	43.3	45.3	47.8	52.8	55.1	55.1	54M
		Avg	M	M	M	49.9	52.8	53.6	56.8	58.3	64.3	67.5	67.3	67M
E6-7824	San Jose Decid. FFS	Max	88	72	67	64	77	82	93	84	99	96	100	101
		Min	42	37	31	32	34	34	38	41	47	48	49	48
		Avg Max	75.6	64.7	57.6	59.1	66.0	66.2	72.2	70.3	79.0	82.6	83.9	83.0
		Avg Min	53.4	45.6	37.2	40.2	38.5	42.0	44.8	47.6	52.7	55.3	55.8	53.1
		Avg	64.5	55.2	47.4	49.6	52.2	54.0	58.5	59.0	65.8	69.0	69.9	68.1
E7-7864	San Mateo	Max	81	71	65	63	72	76	85	73	92	94	91	96
		Min	45	41	31	35	37	36	38	42	49	50	52	44
		Avg Max	72.2	63.7	55.9	57.6	64.1	62M	64.8	65.0	72.4	76M	76M	76.2
		Avg Min	54.4	48.1	39.9	42M	41.4	43M	45.3	48.4	56.6	57.9	58M	54.6
		Avg	63.3	55.9	47.9	50M	52.8	52M	55.1	56.7	64.5	67M	67M	65.4
E2-7880	San Rafael	Max	82	71	60	64	80	81	89	85	97	97	97	101
		Min	44	41	32	33	36	36	36	40	46	47	48	42
		Avg Max	74M	63M	52M	57M	66M	66M	70M	71.2	78M	83.4	83.4	82.5
		Avg Min	51M	48M	38M	39M	40M	41M	43M	45.7	52M	52.5	52.7	51.4
		Avg	62M	55M	45M	48M	53M	54M	56M	58.5	65M	68.0	68.1	67.0
E6-7912	Santa Clara University	Max	85	71	68	65	76	80	88	82	96	92	96	96
		Min	38	36	31	32	35	35	38	40	46	48	50	47
		Avg Max	74M	62M	56M	58.6	65.4	66M	71M	71M	77M	82M	84.5	81M
		Avg Min	50M	45M	37M	40.3	39.3	41M	43M	47M	52M	54M	57.3	53M
		Avg	62M	54M	46M	49.5	52.4	54M	57M	59M	65M	68M	70.9	67M
D0-7916	Santa Cruz	Max	83	79	80	65	77	78	91	77	81	89	85	96
		Min	37	33	28	29	30	28	34	34	41	41	42	40
		Avg Max	73.5	65.2	63.0	59.0	65.5	63.9	67.4	69.2	74.4	78.2	76.3	77.2
		Avg Min	48.3	41.7	36.0	36.4	35.3	37.0	40.4	42.7	47.3	49.1	49.7	47.1
		Avg	60.9	53.5	49.5	47.7	50.4	50.5	53.9	56.0	60.9	63.7	63.0	62.2
D2-7959-10	Santa Rita Muther	Max	78	68	75	M	M	M	M	M	M	M	M	M
		Min	40	33	31	M	M	M	M	M	M	M	M	M
		Avg Max	67.5	60.2	60.9	56.4	M	57.7	59.3	59.7	62.9	63.0	63.0	66.5
		Avg Min	48.3	40.5	36.2	34.7	M	36.8	41.9	46.4	50.2	50.7	50.9	49.5
		Avg	57.9	50.4	48.6	45.6	M	47.3	50.6	53.1	56.6	56.9	57.0	58.0
F9-7964	Santa Rosa Sewage Plant	Max	90	71	67	65	81	80	86	78	97	96	95	96
		Min	32	32	25	27	28	29	30	34	41	44	45	42
		Avg Max	71.7	61.0	51.5	55.1	64.7	62.1	68.9	68.2	76.5	78.9	78.4	76.8
		Avg Min	47.1	44.2	34.6	33.8	33.8	33.9	38.5	42.5	49.0	49.7	51.2	49.2
		Avg	59.4	52.6	43.0	44.4	49.2	48.0	53.7	55.4	62.8	64.3	64.8	63.0
F9-7965	Santa Rosa	Max	92	74	61	66	83	83	90	81	99	99	102	104
		Min	35	32	26	28	29	28	30	36	41	45	45	42
		Avg Max	74.9	63.4	51.6	55.8	66.7	65.2	70.9	71.0	78.9	84.5	86.0	83.4
		Avg Min	46.3	39.3	34.0	33.0	32.3	34.6	38.9	43.3	48.3	49.9	50.5	49.0
		Avg	60.6	51.3	42.8	44.4	49.5	49.9	54.9	57.2	63.6	67.2	68.3	66.2

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MONTHLY TEMPERATURES 1963-64
IN DEGREES FAHRENHEIT

NUMBER	STATION NAME		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
D2-8338-01	Soledad CTF	Max	84	79	77	M	M	M	M	M	M	M	M	M
		Min	42	36	28	M	M	M	M	M	M	M	M	M
		Avg Max	73.1	65.4	65.2	59.7	65.6	63.1	66.2	65.7	72.2	74.5	75.0	76.0
		Avg Min	48.8	42.4	35.1	35.1	33.5	31.4	40.2	43.4	48.8	51.0	52.5	56.6
		Avg	61.0	53.9	50.2	47.8	49.6	47.3	53.2	54.6	60.5	62.8	63.8	66.3
E2-8351	Sonoma	Max	96	73	60	65	81	82	90	88	103	104	100	102
		Min	34	32	25	28	28	28	28	30	39	42	43	39
		Avg Max	76.0	62.0	51.1	55.8	66.9	67.0	73.0	74.4	81.5	88.6	88.5	86M
		Avg Min	46.5	41.5	35.3	35.4	33.9	36.2	37.9	41.0	47.1	48.6	49.1	46.5
		Avg	61.3	51.8	43.2	45.6	50.4	51.6	55.5	57.7	64.3	68.6	68.8	66M
D2-8446-01	Spreckels	Max	80	77	80	78	76	76	M	70	M	80	102	M
		Min	36	33	29	28	30	31	M	39	M	44	44	M
		Avg Max	72.0	65.3	63.5	62.9	66.9	60.4	M	63.3	M	71.8	77.6	M
		Avg Min	48.6	43.4	33.7	34.7	33.7	38.2	M	44.7	M	52.9	50.1	M
		Avg	60.3	54.4	48.6	48.8	50.3	49.3	M	54.0	M	62.4	63.8	M
D3-8849	Templeton	Max	94	77	73	75	74	M	M	90	107	106	104	101
		Min	35	29	23	22	24	M	M	32	40	39	42	36
		Avg Max	75.9	64.6	64.8	59.3	64.9	M	M	73.4	84.5	93.1	91.1	84.3
		Avg Min	48.2	38.9	29.7	31.8	30.4	M	M	41.6	48.1	50.7	51.2	44.5
		Avg	62.0	51.8	47.2	45.6	47.6	M	M	57.5	66.3	71.9	71.2	64.4
F9-9122	Ukiah	Max	101	73	69	65	82	81	92	88	105	110	106	108
		Min	35	31	27	27	27	27	32	34	43	46	48	42
		Avg Max	74.5	61.9	59.5	55.1	67.7	64.4	71.6	73.8	82.0	90.9	92.5	88.1
		Avg Min	47.6	41.4	35.6	34.2	32.0	35.5	38.7	43.1	49.8	53.9	53.7	47.2
		Avg	61.1	51.7	47.6	44.7	49.9	50.0	55.2	58.5	65.9	72.4	73.1	67.7
E4-9185	Upper San Leandro Filters	Max	80	71	62	62	76	78	86	75	90	90	90	96
		Min	43	40	32	35	36	33	37	40	46	50	51	45
		Avg Max	70.2	62.2	55.1	55.5	62.8	60.9	64.8	63.6	69.2	73.3	74.3	73.9
		Avg Min	52.2	45.9	37.6	39.7	41.1	40.3	44.0	45.5	50.6	52.5	53.9	53.0
		Avg	61.2	54.1	46.4	47.6	52.0	50.6	54.4	54.6	59.9	62.9	64.1	63.5
E3-9305	Veterans Home	Max	88	69	63	64	76	78	90	91	104	105	100	100
		Min	38	36	30	30	31	30	32	34	42	46	48	42
		Avg Max	72.7	63.0	55.0	56.1	62.5	64.3	72.6	77.5	84.8	90.2	88.0	83.4
		Avg Min	48.0	44.5	38.2	38.7	36.7	41.0	42.7	44.6	50.4	53.6	54.4	50.3
		Avg	60.4	53.8	46.6	47.4	49.6	52.6	57.6	61.1	67.6	71.9	71.2	66.8
E4-9423	Walnut Creek 2 ESE	Max	93	71	59	64	77	80	90	88	103	103	101	99
		Min	34	31	24	25	25	27	31	34	42	45	45	40
		Avg Max	74.8	61.6	49.6	55.0	64.8	65.1	70.9	72.5	79.2	87.5	88.1	82.6
		Avg Min	46.8	39.7	34.0	32.9	31.3	34.9	38.7	42.9	49.4	52.4	52.6	47.6
		Avg	60.8	50.7	41.8	44.0	48.1	50.0	54.8	57.7	64.3	70.0	70.4	65.1
D1-9473	Watsonville Water Works	Max	82	80	73	72	77	75	89	71	76	83	80	91
		Min	40	31	29	30	31	30	34	36	41	45	43	40
		Avg Max	71.5	64.0	61.6	59.4	64.8	61.7	64.2	63.3	68.2	70.0	70.3	71.6
		Avg Min	48.5	41.5	35.6	37.1	36.0	38.0	41.8	44.7	49.0	50.3	50.5	47.3
		Avg	60.0	52.8	48.6	48.3	50.4	49.9	53.0	54.0	58.6	60.2	60.4	59.5
E3-9675-41	Wild Horse Valley	Max	M	M	M	M	M	M	M	M	M	M	M	M
		Min	M	M	M	M	M	M	M	M	M	M	M	M
		Avg Max	M	M	M	M	M	M	M	M	M	M	M	M
		Avg Min	M	M	M	M	M	M	M	M	M	M	M	M
		Avg	M	M	M	M	M	M	M	M	M	M	M	M

TABLE A-5

MONTHLY TEMPERATURES 1963-64
IN DEGREES FAHRENHEIT

NUMBER	STATION NAME		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.
F9-9770	Woodacre	Max	92	70	60	61	78	79	87	80	98	97	99	100
		Min	32	30	23	25	23	25	28	34	41	42	42	38
		Avg Max	71.8	60.1	48.8	53.5	63.7	62.2	69.6	65.9	75.1	81.6	82.4	80.7
		Avg Min	47.2	41.7	35.6	34.9	32.2	34.8	37.1	41.9	47.7	49.9	49.1	45.6
		Avg	59.5	50.9	42.2	44.2	48.0	48.5	53.4	53.9	61.4	65.8	65.8	63.2
E3-9861	Yountville Gamble	Max	91	N	66	M	M	M	M	M	M	M	M	M
		Min	41	M	23	M	M	M	M	M	M	M	M	M
		Avg Max	75.3	M	52.2	54.2	63.1	61.3	68.2	69.7	79.5	83.9	83.5	81.7
		Avg Min	48.9	M	31.8	33.8	29.7	31.4	33.2	37.3	42.6	47.0	46.1	43.0
		Avg	62.1	M	42.0	44.0	46.4	46.4	50.7	53.5	61.1	65.5	64.8	62.4
		Max												
		Min												
		Avg Max												
		Avg Min												
		Avg												
		Max												
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		Avg Max												
		Avg Min												
		Avg												

TABLE A-6

INTERIM MONTHLY EVAPORATION 1963

NUMBER	STATION NAME		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
E6 0053	Alamitos Perc. Pond	Evap.										9.37	8.40	6.38
		Wind Movement										1,861	1,658	963
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR
E7 1206	Burlingame	Evap.										NR	6.84	4.86
		Wind Movement										1,347	1,123	700
		Water Temp Avg. Max.										86.5	85.0	84.2
		Water Temp Avg. Min.										57.3	58.0	60.9
F9 2105	Coyote Dam (Lake Mendocino)	Evap.										11.10	10.56	7.45
		Wind Movement										1,878	1,586	1,306
		Water Temp Avg. Max.										84	84	80
		Water Temp Avg. Min.										53	53	52
E6 2109	Coyote Reservoir	Evap.										8.42	7.13	5.36
		Wind Movement										458	397	468
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR
E3 2580	Duttons Landing	Evap.										9.32	8.36	6.36
		Wind Movement										3,859	3,110	2,383
		Water Temp Avg. Max.										84.2	83.5	NR
		Water Temp Avg. Min.										53.9	54.2	NR
D1 4022-10	Hollister Costa	Evap.										7.50	7.04	6.02
		Wind Movement										NR	NR	NR
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR
E6 4922	Lexington Reservoir	Evap.										8.67	7.95	6.22
		Wind Movement										694	932	605
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR
E5 4996	Livermore Sewage Plant	Evap.										11.48	10.64	7.68
		Wind Movement										2,650	2,390	1,810
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR
E5 6144	Newark	Evap.										NR	NR	6.55
		Wind Movement										NR	NR	1,662
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR
D2 7845-10	San Lucas Guidici	Evap.										9.72	7.58	4.50
		Wind Movement										NR	NR	NR
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR

TABLE A-6

INTERIM MONTHLY EVAPORATION 1963

NUMBER	STATION NAME		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
D2 7959-10	Santa Rita Muther	Evap.										6.10	5.17	4.17
		Wind Movement										NR	NR	NR
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR
F9 7964	Santa Rosa Sewage Plant	Evap.										10.09	8.59	6.71
		Wind Movement										2,937	2,367	2,059
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR
F9 7965-03	Santa Rosa Pedranzini	Evap.										6.90	4.79	3.74
		Wind Movement										NR	NR	NR
		Water Temp Avg. Max.										NR	NR	NR
		Water Temp Avg. Min.										NR	NR	NR
D2 8338-01	Soledad C.T.F.	Evap.										8.96	8.26	6.99
		Wind Movement										5,027	4,109	3,506
		Water Temp Avg. Max.										78.0	77.7	77.7
		Water Temp Avg. Min.										49.9	49.6	51.7
E3 9861	Yountville Gamble	Evap.										8.43	5.72	4.29
		Wind Movement										1,686	1,522	1,077
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												

TABLE A-7

MONTHLY EVAPORATION 1963-64

NUMBER	STATION NAME		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
E6 0053	Alamitos Perc. Pond	Evap.	3.85	1.90	1.09	1.71	3.36	4.59	6.68	7.24	9.11	9.81	9.18	7.20
		Wind Movement	965	1,087	619	1,070	662	1,069	1,674	1,721	1,558	1,182	1,538	1,707
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
E7 1206	Burlingame	Evap.	3.29	1.04	0.93B	0.83B	2.68	3.76	5.58	6.13	6.86	8.04	7.47	6.08
		Wind Movement	509	472	269	438	612	870	1,086	958B	898	950	932	639
		Water Temp Avg. Max.	78.5	63.2	54.4	56.8	66.5	73.1	78.3	83.5	86.2	88.6	88.5	85.2
		Water Temp Avg. Min.	56.0	48.3	41.1	42.6	43.1	46.6	49.3	53.0	55.6	57.7	57.5	54.6
F9 2105	Coyote Dam (Lake Mendocino)	Evap.	3.85	1.75	0.84	0.97	2.07	3.74	5.81	6.13	9.84	11.44	11.03	8.19
		Wind Movement	971	853	787	953	980	1,524	1,627	1,542	2,000	1,901	1,871	1,654
		Water Temp Avg. Max.	69	55	57	48	55	62	70.5	73.1	79.0	84.9	85.0	77.3
		Water Temp Avg. Min.	48	40	34	34	30	36	40.7	44.0	50.1	54.0	54.0	47.4
E6 2109	Coyote Reservoir	Evap.	3.19	1.24	0.65	1.09	2.06	2.74	4.32	5.76	7.00	8.88	7.84	5.35
		Wind Movement	396	238	89	335	393	560	585	517	412	261	646	543
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
E3 2580	Duttons Landing	Evap.	3.55	1.50	0.82	1.20	3.36	4.53	6.34	8.22B	8.43	9.73	9.37	7.56
		Wind Movement	1,995	1,719	2,022	1,618	1,766	2,483	3,071	4,202	3,950	4,001	3,853	2,907
		Water Temp Avg. Max.	73.6	NR	NR	53.6	63.7	68.5	73.6	NR	79.7	84.0	83.1	80.4
		Water Temp Avg. Min.	51.6	NR	NR	37.0	37.1	41.6	44.1	NR	51.9	54.6	55.0	52.6
D1 4022-10	Hollister Costa	Evap.	5.20	2.27	2.16	2.45	3.25	4.05	5.82	5.29	7.30	8.80	7.82	7.47
		Wind Movement	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
E6 4922	Lexington Reservoir	Evap.	3.64	1.48	1.24	1.41	2.56	3.77	5.33	6.07	7.01	9.25	8.58	6.60
		Wind Movement	826	1,225	568	1,143	1,003	1,166	1,051	907	679	841	1,235	1,371
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
E5 4996	Livermore Sewage Plant	Evap.	5.28	1.76	1.27	1.60	3.66	3.90	5.79	7.47	7.76	12.48	10.33	7.36
		Wind Movement	1,560	1,890	2,550	2,040	2,220	2,240	2,590	2,960	2,550	2,610	2,530	1,710
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
E5 6144	Newark	Evap.	3.88	1.77B	1.04	14.1B	2.68	4.09	5.94	6.70	7.30	10.29	9.64	8.24
		Wind Movement	1,564	1,374	1,270	1,221	1,206	2,047	2,006	2,946	2,696	3,803	3,457	3,087
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
D2 7845-10	San Lucas Guidici	Evap.	4.19	2.09	1.79	1.76	3.58	4.87	7.17	7.04	8.06	10.37	7.23	6.04
		Wind Movement	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE A-7

MONTHLY EVAPORATION 1963-64

NUMBER	STATION NAME		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
D2 7959-10	Santa Rita Muther	Evap.	3.30	2.31	1.93	1.06	4.57	2.72	4.14	4.75	5.61	5.88	5.30	4.96
		Wind Movement	1,432	1,533	1,913	946	1,584	2,243	1,942	2,323	2,063	1,897	1,072	1,053
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
F9 7964	Santa Rosa Sewage Plant	Evap.	3.176	1.634	.634	.99	2.78	1.585	5.995	6.187	7.821	10.131	8.625	7.116
		Wind Movement	1,834	1,789	1,207	1,714	1,698	2,592	2,910	3,119	3238.2	3,213	2,835	2,424
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
F9 7965-03	Santa Rosa Pedranzini	Evap.	2.85	1.60	0.98	0.87	2.89	2.58	5.02	6.05	7.19	9.17	9.73	7.95
		Wind Movement	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
D2 8338-01	Soledad C. T. F.	Evap.	4.49	2.46	2.69	2.36	4.57	5.06	6.06	7.22	8.40	8.21	7.36	7.18
		Wind Movement	3,043	3,159	2,776	3,263	2,962	3,770	3,945	4,435	5,077	4,597	3,036	3,499
		Water Temp Avg. Max.	71.6	61.3	56.3	59.7	65.6	63.1	66.2	65.7	72.2	74.5	75.0	76.0
		Water Temp Avg. Min.	48.4	41.6	34.5	35.8	33.5	31.4	40.2	43.4	48.8	51.0	52.5	56.6
E3 9861	Yountville Gamble	Evap.	3.28	1.04	0.89	1.18	3.44	3.51	5.60	6.31	7.35	8.55	8.32	7.32
		Wind Movement	1,046	1,043	720	1,413	1,802	1,643	1,857	1,836	1,267	1,492	1,099	1,119
		Water Temp Avg. Max.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Water Temp Avg. Min.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												
		Evap.												
		Wind Movement												
		Water Temp Avg. Max.												
		Water Temp Avg. Min.												

APPENDIX B

SURFACE WATER FLOW

ACKNOWLEDGMENTS

The Department of Water Resources gratefully acknowledges the assistance and contributions of the many public agencies, private organizations, and individuals whose cooperation greatly facilitated the preparation of this appendix. Special mention is made of the following agencies:

Federal

United States Geological Survey

United States Bureau of Reclamation

Local

East Bay Municipal Utility District

San Francisco Water Department

City of Vallejo

INTRODUCTION

This appendix presents surface water measurement data collected and assembled by the Department of Water Resources. It contains information collected in the Central Coastal Area during the 1964 water year covering the period from October 1, 1963 through September 30, 1964.

Maximum and Minimum Tides

Along the Pacific Coast, there are usually two high and two low tides in a day. Because tides follow the moon more closely than they do the sun, the lunar or tidal day is about 50 minutes longer than the solar day. When a tide has occurred near the end of a calendar day, the corresponding tide may skip the next day and occur in the early morning of the third day. The two high and two low tides which are usually unequal are commonly designated as higher high, lower high, higher low, and lower low waters.

Table B-1 lists maximum and minimum tides at the Sacramento River at Collinsville and Suisun Bay at Benicia Arsenal, respectively. These data are obtained from graphical charts plotted by continuous water stage recorders. The values are in feet above -13.05 feet USC&GS mean sea level datum of 1929 at Collinsville and above -10.00 feet at Benicia Arsenal. The values in most cases represent higher high water and lower low water. During a calendar day in which three instead of four tides occurred, the high value represents lower high water in the case where higher high tide did not occur and the low value represents higher low water in the case where lower low tide did not occur. The maximum and minimum values at the bottom of each monthly column represent the extremes observed during that month.

At the bottom of each table the maximum gage height of record shown is measured from the same datum as the daily high and low values.

Daily Mean Discharge

Table B-2 presents mean daily discharges in Arroyo de los Coches near Milpitas and in Butano Creek near Pescadero. Each of these stream gaging stations is equipped with a continuous water stage recorder. Each has a stage discharge relationship or rating developed. The rating gives the flow or discharge in cubic feet per second (c.f.s.) for each water stage or gage height at a station. Given the rating and continuous water stage record, mean daily discharges are determined by electronic data processing methods.

The rating is developed by making streamflow measurements with a current meter at various water stages ranging from near minimum to near maximum. Normally, the rating is fairly permanent where there is a fixed channel and a fixed flow regimen at the station. The rating varies, however, where the bed of the channel is of loose shifting sand and gravel or where vegetative growth builds up in the channel changing the flow regime. Where the rating is not permanent and varies periodically, more frequent measurements of discharge are necessary to accurately determine the discharge.

The daily values listed in Table B-2 represent daily mean discharge in cubic feet per second. These values are estimated when the flow is in excess of 140 percent of the highest measurement and when the previous and following flows are reasonably representative of conditions during a short period of missing record. The mean, maximum and minimum values at the bottom of each monthly column are representative of that month and year only. The acre-feet value for each month is a total of the daily values which are converted to acre-feet for the computation. The mean discharge under "Water Year

Summary" is an average of the monthly means. The maximum and minimum discharges are absolute instantaneous extremes that occurred during the year. The total acre-feet is the sum of the monthly acre-feet values.

The streamflow data reported herein are derived through the use of mechanical, arithmetical, and empirical operations and methods. The results are affected by inherent inaccuracies in procedures and equipment. It is, therefore, necessary to establish limits of accuracy for the reported data. The following is a listing of significant figures used in reporting streamflow data:

1. Daily flows - cubic feet per second

   0.0 - 9.9 Tenths

   10 - 99 2 significant figures

   100 - up 3 significant figures

2. Means - cubic feet per second

   0.0 - 99.9 Tenths

   100 - 999 3 significant figures

   1000 - above 4 significant figures

Water year totals are reported to a maximum of four significant figures.

Daily Mean Gage Height

Table B-3 presents the daily mean gage height for Rector Reservoir near Yountville. These gage heights are to USC&GS datum and are indicative of the amount of water in storage.

Imports

Table B-4 presents monthly deliveries of water into the Central Coastal Area. This table indicates the water user and the source of the supply.

Monthly and water year total deliveries in acre-feet, average delivery in cubic feet per second, and monthly use in percent of annual are presented herein.

Numbering System of Recording Stations

To facilitate station identification, each gaging station was assigned a six-digit code. The method used in assigning these code numbers is as follows: The State was first divided into major hydrographic areas and each of these areas was assigned an alphabetic letter which is the first symbol of the six-part code. The second symbol was obtained by dividing the major hydrographic areas into stream basins of primary importance and assigning a digit from 0-9 with 0 generally being the valley floor. The symbol indicates the stream and/or branch on which the station is located. Where a stream crosses a valley floor the third symbol indicates the river basin from which the stream originates, and the fourth symbol now designates the stream. The last three symbols designate the relative number of the station on the stream system, except in the valley floor, where the last two symbols indicate the relative number. Station numbers increase numerically proceeding upstream. When a minor tributary enters the stream system the station numbers progress up the minor tributary and then up the main stem.

The major hydrographic areas and the stream basins which are reported in this volume are as follows:

Hydrographic Area D

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

Hydrographic Area E

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

Hydrographic Area F

F8 - Mendocino Coast
F9 - Russian River

On Plate 2 the first two symbols of the identification code are shown in each sub-area or basin with the last four symbols of the code shown at the recording station locations. All six symbols are indicated on the hydrographic area index, and on the alphabetic index to the streamflow and stage tables, and in the upper right-hand box of the table for each individual gaging station.

Table B-1

DAILY MAXIMUM AND MINIMUM TIDES *

SACRAMENTO RIVER AT COLLINSVILLE

in feet

STATION NO	WATER YEAR
E31110	1964

DATE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	DATE
1	16.42 12.37	NR NR	16.91 11.91	16.90 12.08	15.67 11.97	15.66 12.41	15.98 12.38	15.88 11.81	15.55 11.60	15.31 11.71	16.20 12.74	16.45 12.30	1
2	16.42 12.72	NR NR	16.80 11.76	16.39 13.50	15.63 13.09	15.61 12.40	15.65 11.81E	15.60 11.70E	15.20 11.57	15.41 11.69	16.48 12.29	16.48 11.85	2
3	16.51 12.91	NR NR	16.69 11.80	15.80 11.80	15.60 12.08	15.25 12.02	15.02 11.52	15.63 11.83E	15.28 11.50	15.82 12.01	16.76 12.19	15.20 11.89	3
4	16.78 12.83	NR NR	16.40 13.77	15.35 11.70	15.79 12.57	15.18 11.93	15.25 11.65E	15.20 11.62E	15.39 11.61	15.87 12.20	15.00 12.06	16.56 12.03	4
5	16.71 13.11	NR NR	15.95 11.70	15.58 11.83	15.82 12.64	15.35 11.90	15.43 11.67E	15.18 11.55E	15.76 12.01	16.32 11.66	16.82 11.94	16.65 12.29	5
6	16.56 12.47	NR NR	NR NR	15.76 12.00	15.73 12.16	15.30 11.93	14.89 11.50E	14.68 11.50E	14.75 12.20	14.66 11.89	16.91 11.98	16.66 12.45	6
7	16.63 12.23	16.10 12.37	NR NR	16.02 12.65	15.80 11.98	15.25 11.66E	14.96 11.42E	15.10 11.69E	16.10 12.08	16.65 11.85	16.92 12.02	16.41 12.53	7
8	16.72 12.27	15.73 12.10	NR NR	15.86 12.23	NR NR	15.22 11.50E	15.05 11.50E	15.32 11.82	16.30 11.95	16.85 11.72	16.90 12.13	16.05 12.61	8
9	16.40 12.37	15.70 12.05	NR NR	15.95 12.18	NR NR	15.25 11.67E	15.27 11.69E	15.51 11.98	16.59 11.68	16.80 11.54	16.65 12.11	15.81 12.60	9
10	16.67 12.22	15.79 12.13	NR NR	16.20 12.00	NR NR	15.75 11.69E	15.20 11.69E	15.74 11.86	16.70 11.58	16.72 11.46	16.39 12.30	15.88 12.60	10
11	16.10 12.60	15.82 12.39	16.25 12.48	16.32 11.94	NR NR	16.08 12.15	15.36 11.93	15.99 11.69E	16.79 11.56	16.60 11.53	16.95 12.32	15.90 12.56	11
12	NR NR	16.07 12.56	16.18 12.19	16.46 11.98	NR NR	16.16 12.03	15.49 11.71E	16.33 11.70E	16.75 11.62	16.50 11.81	15.78 12.29	16.06 12.56	12
13	NR NR	16.33 12.81	16.35 12.11	16.66 12.10	NR NR	15.87 11.60E	15.69 11.71E	16.60 11.72E	16.56 11.60	16.29 12.04	16.02 12.63	15.94 12.56	13
14	NR NR	16.88 13.01	16.24 11.91	16.60 11.90	NR NR	15.55 11.81E	15.94 11.69E	16.53 11.51	16.28 11.70	15.89 12.01	16.27 12.90	15.83 12.29	14
15	NR NR	16.58 12.55	16.38 11.93	16.44 11.81	16.06 12.10	15.34 11.86	16.23 11.69E	16.46 11.53	15.99 11.77	15.63 11.88	16.07 12.79	15.92 12.09	15
16	NR NR	16.30 12.19	16.39 11.84	16.43 11.92	15.63 12.70	15.40 11.86	16.49 11.74E	16.46 11.69	15.69 11.81	15.74 12.12	16.19 12.44	16.29 12.11	16
17	NR NR	16.45 12.23	16.30 11.82	16.60 12.52	15.32 11.87	15.80 12.05	16.52 11.87	15.71 11.28	15.80 11.98	16.00 12.53	16.29 12.38	15.35 12.37	17
18	NR NR	16.49 12.24	16.36 14.02	16.49 13.85	15.40 11.90	16.15 11.95	16.28 11.76E	15.40 11.42	15.91 12.34	16.06 12.40	16.29 12.26	16.19 12.19	18
19	NR NR	17.19 14.80	16.21 11.85	16.18 12.40	15.55 11.96	16.15 11.87	16.11 11.86	15.42 11.69	15.93 12.36	16.21 12.16	14.98 12.00	16.09 12.05	19
20	NR NR	16.80 12.71	16.15 11.86	16.80 12.53	15.77 11.70	16.28 12.04	15.42 11.63E	14.75 11.70	15.50 12.15	16.71 12.08	16.33 12.09	16.10 12.20	20
21	NR NR	16.02 12.49	15.50 11.91	16.80 13.47	16.10 11.72E	16.30 12.01	15.31 11.71E	15.39 11.85	16.14 11.92	16.31 11.99	16.70 12.50	15.94 12.10	21
22	NR NR	15.44 11.98	15.26 11.80	17.10 13.54	16.24E 11.63	16.40 12.33	15.56 12.56	15.58 12.17	16.13 11.81	16.36 11.90	16.61 12.31	15.78 12.30	22
23	NR NR	15.70 11.90	15.26 11.69	16.90 12.79	16.33E 11.70	16.33 12.01	15.95 12.09	15.99 12.23	16.32 11.84	16.50 11.86	16.49 12.29	15.94 12.51	23
24	NR NR	15.67 12.13	15.75 11.92	16.73 12.30	16.68 12.08	16.23 11.92	15.53 12.09	16.00 11.96	16.42 11.85	16.51 11.99	16.37 12.37	16.20 12.80	24
25	NR NR	15.70 12.05	16.13 12.38	17.00 12.26	16.37E 11.71E	15.69 11.75E	15.63 11.99	15.98 11.82	16.61 12.08	16.70 12.31	16.08 12.35	16.62 12.50	25
26	NR NR	16.00 12.24	16.50 12.30	17.38 12.46	16.23E 11.79E	15.49 11.80E	15.70 11.87	16.30 11.97	16.77 12.18	16.71 12.30	15.78 12.37	16.66 12.89	26
27	NR NR	16.30 12.50	16.60 12.00	17.28 12.20	16.13 11.89	15.50 11.95	15.79 11.68	16.20 11.61	16.33 11.71	16.40 12.16	15.85 12.48	16.58 12.53	27
28	NR NR	15.35 12.16	16.63 11.92	17.11 12.10	16.21 12.28	15.62 12.18	16.12 12.19	16.01 11.49	16.35 11.73	16.09 12.09	16.01 12.75	16.53 12.30	28
29	NR NR	16.55 12.01	16.75 11.69	1.85 11.94	15.56 11.94	15.65 12.22	16.31 12.03	16.05 11.58	16.92 11.78	15.72 12.20	16.20 12.67	16.31 12.20	29
30	NR NR	16.76 11.92	16.80 11.68	16.48 11.90		15.83 12.29	16.01 11.61E	15.95 11.60	15.51 11.61	15.84 12.34	16.25 12.50	16.18 12.00	30
31	NR NR		16.80 11.77	16.13 11.89		15.98 12.25		15.88 11.61		16.10 12.50	16.78 12.81		31
MAXIMUM	NR NR	NR NR	NR NR	17.38 11.70	NR NR	16.40 11.50E	16.52 11.42E	16.60 11.28	16.79 11.50	16.85 11.46	16.95 11.94	16.66 11.85	MAXIMUM
MINIMUM													MINIMUM

E - Estimated
NR- No Record

In order to machine process the data in this table, it was necessary to avoid negative gage heights.
Subtract 10.00 feet to obtain recorder gage height.

LOCATION			MAXIMUM OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
38°04'25"	121°51'18"	SW27 3N 1E		9.2	4/6/58		June 29-Date	1929 1929		0.00 -3.05	USED USCGS

Station located 0.4 mi. SW of Collinsville, 3.3 mi. NE of Pittsburg.
Maximum gage height does not indicate maximum discharge.

Table B-1

DAILY MAXIMUM AND MINIMUM TIDES *

SUISUN BAY AT BENICIA ARSENAL

in feet

STATION NO	WATER YEAR
E03300	1964

DATE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	DATE
1	NR NR	NR NR	NR NR	NR NR	12.58 7.87	12.85 7.98	12.85 7.98	12.53 7.12	12.21 7.20	12.16 7.34	13.15 8.15	13.35 7.86	1
2	NR NR	NR NR	NR NR	NR NR	12.68 7.81	12.44 7.96	12.27 7.40	12.12 7.04	12.03 7.30	12.36 7.57	13.40 8.20	13.43 7.22	2
3	NR NR	NR NR	NR NR	NR NR	12.58 8.63	12.13 7.71	11.81 7.21	12.22 7.36	12.14 7.39	12.73 8.03	13.67 7.77	13.55 7.20	3
4	NR NR	NR NR	NR NR	NR NR	12.67 8.76	12.01 7.69	11.98 7.61	11.67 7.17	12.43 7.52	12.94 8.30	13.85 7.45	12.34 7.33	4
5	NR NR	NR NR	NR NR	NR NR	12.66 8.62	11.95 7.59	12.03 7.30	11.90 7.30	12.82 8.02	13.38 7.61	13.98 7.15	13.61 7.53	5
6	NR NR	NR NR	NR NR	NR NR	12.57 8.13	11.93 7.69	11.60 7.04	12.05 7.19	11.63 8.05	13.68 7.32	12.20 7.10	13.61 7.83	6
7	NR NR	NF NF	NR NR	NR NR	12.56 7.79	11.98 7.48	11.71 6.87	12.30 7.45	13.13 7.69	13.91 7.07	14.00 7.15	13.36 7.97	7
8	NR NR	NR NR	NR NR	NR NR	12.81 7.56	11.99 7.00	11.79 6.81	11.69 7.50	13.33 7.25	11.85 6.76	13.96 7.32	12.90 8.08	8
9	NR NR	NR NR	NR NR	NR NR	12.96 7.38	12.24 7.06	12.07 6.99	12.48 7.70	13.79 6.94	13.90 6.45	13.62 7.37	12.75 8.28	9
10	NR NR	NR NR	NR NR	NR NR	13.38 7.56	12.54 7.06	12.11 7.10	12.79 7.30	13.86 6.55	13.83 6.40	13.30 7.60	12.75 8.68	10
11	NR NR	NR NR	NR NR	13.32 7.53	13.24 6.98	12.94 7.69	12.25 7.39	13.10 6.93	13.86 6.44	13.74 6.66	12.89 7.79	12.64 8.20	11
12	NR NR	NR NR	NR NR	13.45 7.51	13.22 6.95	13.09 7.43	12.38 7.10	13.42 6.87	13.80 6.57	13.49 7.01	12.81 8.11	12.64 8.19	12
13	NR NR	NR NR	NR NR	13.62 7.53	12.99 6.76	12.86 7.17	12.66 6.89	13.65 6.70	13.48 6.66	13.11 7.41	12.97 8.66	12.46 8.17	13
14	NR NR	NR NR	NR NR	13.51 7.21	13.11 7.00	12.55 7.18	12.97 6.71	13.53 6.50	13.16 6.98	12.68 7.59	13.07 9.01	12.45 8.06	14
15	NR NR	NR NR	NR NR	13.44 7.17	13.03 7.30	12.35 7.39	13.22 6.82	13.40 6.58	12.76 7.28	12.52 7.69	12.88 8.72	12.60 7.78	15
16	NR NR	NR NR	NR NR	13.45 7.33	12.57 7.20	12.46 7.42	13.37 6.90	13.27 7.02	12.60 7.46	12.75 8.82	12.93 8.39	12.78 7.62	16
17	NR NR	NR NR	NR NR	13.55 8.17	12.32 7.40	12.89 7.62	13.32 7.15	12.59 6.66	NR NR	12.99 8.62	13.11 8.22	12.99 7.84	17
18	NR NR	NR NR	NR NR	13.39 7.97	12.42 7.80	13.19 7.51	13.05 7.21	12.26 6.97	NR NR	12.92 8.31	13.14 8.01	12.96 7.79	18
19	NR NR	NR NR	NR NR	13.07 8.27	12.59 7.75	13.15 7.45	12.70 7.29	12.34 7.24	12.93 8.30	13.10 8.05	13.25 7.69	13.09 7.66	19
20	NR NR	12.70 7.40	NR NR	13.89 10.30	12.81 7.45	13.10 7.50	12.09 6.82	12.36 7.39	13.12 7.93	13.21 7.80	12.26 7.74	12.59 7.79	20
21	NR NR	12.17 10.75	12.34 7.29	13.79 9.31	13.00 7.28	13.10 7.49	12.31 7.12	12.57 7.73	13.12 7.70	13.25 6.55	13.63 7.90	12.99 7.70	21
22	NR NR	12.50 7.44	12.09 7.25	13.93 9.19	13.16 7.16	13.29 8.02	12.25 7.81	11.71 8.46	11.73 7.45	13.38 7.42	13.39 7.67	NR NR	22
23	NR NR	12.39 7.77	12.39E 9.26	13.76E 8.16	13.30 7.01	13.25 7.41	12.68 7.55	12.91 7.87	13.30 7.43	11.80 7.38	13.36 7.66	NR NR	23
24	NR NR	12.51 7.65	12.89 7.95	13.63 7.45	13.57 7.27	13.12 7.20	12.47 7.67	12.87 7.48	13.40 7.40	13.42 7.45	13.24 7.76	NR NR	24
25	NR NR	12.81 7.80	13.05 8.29	13.78E 7.30	13.40 6.80	12.67 6.96	12.53 7.45	12.87 7.26	13.53 7.53	13.51 7.59	12.92 7.78	NR NR	25
26	NR NR	13.20 8.00	13.63 7.99	13.93E 7.43	13.30 6.89	12.46 7.18	12.56 7.27	13.19 7.34	13.56 7.48	13.47 7.62	12.67 7.99	NR NR	26
27	NR NR	13.25 7.47	13.56 7.26	14.08E 7.05	13.16 7.12	12.53 7.49	12.69 7.25	13.12 7.12	13.18 7.12	13.23 7.60	12.85 8.40	NR NR	27
28	NR NR	13.65 7.12	13.66 6.71	14.28 6.96	13.11 7.50	12.81 7.78	12.90 7.49	12.83 6.95	13.02 7.38	12.99 7.71	13.04 8.74	NR NR	28
29	NR NR	13.80 6.89	NR NR	13.95 6.80	12.46 7.35	12.68 7.87	12.90 7.35	12.82 7.08	12.80 7.41	12.51 7.82	13.18 8.31	NR NR	29
30	NR NR	13.99 6.79	NR NR	13.55 6.87		12.76 7.78	12.66 7.10	12.63 7.11	12.23 7.31	12.77 8.08	13.68 8.28	NR NR	30
31	NR NR		NR NR	13.12 7.09		12.93 7.89		12.50 7.13		13.03 8.50	13.67 8.38		31
MAXIMUM	NR NR	NR NR	NR NR	NR NR	13.57 6.76	13.29 6.96	13.37 6.71	13.65 6.50	NR NR	13.91 6.40	14.00 7.10	NR NR	MAXIMUM
MINIMUM													MINIMUM

E - Estimated
NR- No Record

* In order to machine process the data in this table, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain recorder gage height.

LOCATION			MAXIMUM OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
38°02'26"	122°08'44"	SW6 2N 2W		6.72	3/5/62		Jun 29-Apr 40 Apr 40-Date	1929 1940 1942	1940 1942	-2.21 -5.00 0.00	USCGS USCGS USCGS

Station located on inshore side of wharf, immediately SE of Benicia.
Maximum gage height listed does not indicate maximum discharge.
Period of record intermittent from 1929-1940.

Table B-2

DAILY MEAN DISCHARGE

ARROYO DE LOS COCHES NEAR MILPITAS

STATION NO	WATER YEAR
E64050	1964

IN SECOND FEET

DAY	OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	DAY
1	0.0	0.0	0.2	0.1	0.1	0.0	0.1*	0.1	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	5
6	0.0	0.1*	0.2	0.1	0.2	0.0	0.1	0.1*	0.0	0.0	0.0	0.0	6
7	0.0	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	7
8	0.0	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.1	0.0*	0.0	0.0	8
9	0.0	0.1	0.3	0.1*	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	9
10	0.0*	0.1	0.1*	0.0	0.2	0.0	0.1	0.0	0.0*	0.0	0.0	0.0	10
11	0.0	0.1	0.1	0.0	0.2	0.0*	0.1	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.1	0.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.1	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.1	0.1	0.0	0.1*	0.1	0.1	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.2	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0*	17
18	0.0	0.1*	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.5	0.1*	1.5	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.2	0.1	2.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.2	0.1	1.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.3	0.1	0.8	0.1	0.1*	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.4	0.1	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.3	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.3	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.3	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0*	0.0	27
28	0.0	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0*	0.0	0.0	28
29	0.0	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.2	0.1	0.2		0.1	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0		0.1	0.1		0.1		0.0		0.0	0.0		31
MEAN	0.0	0.2	0.1	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	0.5	0.3	2.0	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	MAX
MIN.	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC.FT.		9	6	18	7	4	5	1					AC.FT.

E - Estimated
NR - No Record
* - Discharge measurement or observation of no flow made on this day.
‡ - E and *

WATER YEAR SUMMARY

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE-FEET
0.1	27	2.85	1	20	2140	0.0	1.42	10	1	0000	53

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.&R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37°26'38"	121°51'45"	NW4 6S 1E	3.5E	2.71	2/14/62	9-16-59-Date	Sep 59-Date	1959		0.00	Local

Station located 200 ft. above Calaveras Road Bridge. 2.6 miles NE of Milpitas. Tributary to Coyote Creek via Penitencia Creek. Recorder installed Sep. 16, 1959.

Table B-2

DAILY MEAN DISCHARGE

Butano Creek at Pescadero

IN SECOND FEET

STATION NO	WATER YEAR
E8 5200	1964

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	DAY
1	2.4	2.8	9.5	5.9	8.4	4.5	5.8	2.5	1.2	0.9	0.0	0.6	1
2	2.5	3.0	9.0	5.9	8.0	6.2	4.9*	2.4	1.4	1.1	0.2	0.6	2
3	2.3	3.2	8.7	5.9	7.6	4.4	4.4	3.4	1.2	1.6	0.1	0.6	3
4	2.5	5.7	8.4	5.9	7.5	4.3	4.3	3.2	1.2	2.2	0.1	0.6	4
5	3.0	15	8.1	5.9	7.5	4.2	4.3	2.7	1.0	2.2	0.1	0.7	5
6	3.4	27*	8.1	5.9	7.4	4.1	4.2	2.8*	1.0	1.9	0.1	0.8	6
7	2.6	17	7.9	7.6	7.2	4.0	4.1	2.3	1.2	1.7	0.1	0.8	7
8	2.2*	15	7.9	6.6	7.2	3.6	4.0	2.5	2.5	1.7	0.3	0.7	8
9	2.9	14	9.5	5.9	7.1	3.6	3.8	2.3	5.5	1.5*	0.3	1.0	9
10	2.9	13	8.4	5.9	7.0	3.6	3.5	2.0	2.9*	1.1	0.4	1.0	10
11	16	13	7.9	5.9	7.0	3.8	3.5	1.9	1.9	1.2	0.2	0.8	11
12	5.7	13	7.6	5.7	7.0	8.4*	3.5	1.5	1.6	1.4	0.1	0.8	12
13	4.1	13	7.4	5.9	7.1*	5.0	3.5	1.6	1.5	1.1	0.2	0.6	13
14	3.5	28	7.1	6.1	7.0	4.3	3.4	1.6	1.4	0.9	0.3	0.9	14
15	5.7	38	6.9	5.9	7.8	4.0	3.3	1.4	1.4	0.8	0.5	1.1	15
16	7.9	21	6.9	5.7	6.9	3.7	3.1	1.8	1.2	0.8	0.7	0.9	16
17	5.0	19	6.9	6.1	6.4	3.5	2.9	2.6	1.7	0.7	0.3	0.9*	17
18	4.1	18	6.9	11	5.9	3.6	2.9	1.7	1.3	0.6	0.3	0.9	18
19	3.7	65	7.1	12	5.7	3.4	2.9	1.9	1.3	0.9	0.2	0.7	19
20	3.5	54	7.4	57	5.3	3.4	2.8	1.3	1.4	0.8	0.3	0.6	20
21	3.4	24	7.1	242*	5.1	3.5	2.6	1.3	1.5	0.9	0.4	0.4	21
22	3.4	17	6.9	65*	5.0	9.1	2.6	1.6	1.0	1.1	0.5	0.6	22
23	3.7	19	6.9	34	4.9	11	2.6	1.5	1.0	0.8	0.5	0.4	23
24	3.5	18	6.9	23	4.8	9.4*	2.8	1.3	0.9	0.8	0.5	0.4	24
25	3.2	15	6.9	17	4.8	8.1	2.7	1.3	0.9	0.9	0.7	0.4	25
26	3.2	13	6.9	14	4.8	7.1	2.5	1.1	0.9	1.3	0.7	0.6	26
27	3.2	12	6.6	12	4.8	6.6	2.5	2.5	0.9	1.2	0.7*	0.6	27
28	3.0	11	6.4	11	4.3	6.1	2.5	1.8	1.5	0.6	0.5	0.8	28
29	3.0	11	6.4	9.9	4.3	5.4	2.4	1.2	1.2	0.0*	0.4	1.0	29
30	3.0	10	6.4	9.4		5.1	2.3	1.1	1.4	0.0	0.5	0.9	30
31	2.8		6.1	8.8		4.9		1.3		0.0	0.6		31
MEAN	3.9	18.3	7.5	20.3	6.3	5.2	3.4	1.9	1.5	1.1	0.4	0.7	MEAN
MAX	16.0	65.0	9.5	242.0	8.4	11.0	5.8	3.4	5.5	2.2	0.7	1.1	MAX
MIN.	2.2	2.8	6.1	5.7	4.3	3.4	2.3	1.1	0.9	0.0	0.0	0.4	MIN
AC.FT.	241	1090	458	1250	365	321	200	118	89	65	21	43	AC.FT.

E - Estimated
NR - No Record
* - Discharge measurement or observation of no flow made on this day
\# - E and *

WATER YEAR SUMMARY

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE-FEET
5.9	705	12.00	1	21	0300	0.0		6	27	0830	4260

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37° 13' 49"	122° 21' 51"	SW14 8S 4W	1340	16.21	1/31/63	June 62-Date	June 62-Date	1962		0.00	Local

Station located 1.7 mi. SW intersection Pescadero Road and Old Stage Road in Pescadero.
Tributary to Pescadero Creek. Recorder installed June 22, 1962.

IN FEET

DAY	OCT.	NOV.	DEC	JAN.	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		358.10	361.88	361.78	370.21	370.04	369.81	368.35	365.15	361.94	357.60	352.98	1
2		358.13	361.94	361.75	370.19	370.05	369.75	368.35	365.10	361.89	357.42	352.76	2
3		358.15	361.96	361.74	370.12	370.05	369.64	368.35	365.04	361.81	357.25	352.61	3
4		358.33	361.97	361.69	370.13	370.05	369.56	368.32	364.97	361.75	357.08	352.47	4
5		358.44	361.98	361.66	370.13	370.05	369.46	368.30	364.93	361.67	356.95	352.33	5
6		358.81	361.99	361.62	370.06	370.05	369.37	368.18	364.88	361.60	356.79	352.19	6
7		358.90	362.03	361.58	370.07	370.04	369.27	368.00	364.82	361.44	356.68	352.05	7
8		358.94	362.08	361.53	370.10	370.03	369.17	367.91	364.79	361.28	356.59	351.90	8
9		358.98	362.12	361.48	370.10	370.03	369.10	367.78	364.80	361.13	356.50	351.76	9
10		359.01	362.12	361.46	370.09	370.03	369.04	367.68	364.80	360.98	356.44	351.62	10
11		359.02	362.12	361.44	370.08	370.02	369.02	367.55	364.78	360.81	356.28	351.48	11
12		359.02	362.12	361.38	370.08	370.09	369.02	367.47	364.65	360.68	356.10	351.34	12
13		359.02	362.09	361.35	370.08	370.09	369.00	367.35	364.51	360.53	355.94	351.19	13
14		359.11	362.08	361.32	370.09	370.09	368.97	367.25	364.39	360.35	355.77	351.05	14
15		359.43	362.08	361.31	370.08	370.10	368.95	367.10	364.25	360.20	355.61	350.87	15
16		359.54	362.08	361.30	370.07	370.05	368.93	366.97	364.11	360.05	355.47	350.71	16
17		359.61	362.08	361.30	370.07	370.03	368.90	366.83	363.99	359.87	355.28	350.58	17
18		359.63	362.05	361.30	370.08	369.99	368.86	366.71	363.83	359.73	355.15	350.42	18
19		359.82	362.04	361.35	370.06	369.97	368.86	366.58	363.70	359.55	354.96	350.24	19
20		360.24	362.03	362.26	370.00	369.89	368.86	366.43	363.55	359.40	354.78	350.09	20
21		360.42	362.02	366.30	369.98	369.79	368.81	366.30	363.40	359.28	354.64	349.88	21
22		360.41	362.00	369.69	370.00	369.75	368.79	366.19	363.25	359.19	354.47	349.71	22
23		360.73	361.97	370.38	369.98	369.75	368.75	366.07	363.10	359.01	354.30	349.56	23
24		361.17	361.95	370.30	369.98	369.69	368.72	365.92	362.96	358.85	354.18	349.41	24
25		361.37	361.95	370.26	369.98	369.65	368.69	365.78	362.82	358.70	354.03	349.26	25
26		361.47	361.93	370.26	369.96	369.65	368.67	365.63	362.67	358.55	353.76	349.15	26
27		361.55	362.90	370.22	369.97	369.66	368.63	365.52	362.51	358.37	353.70	349.00	27
28		361.65	362.89	370.23	369.98	369.67	368.53	365.52	362.35	358.23	353.57	348.85	28
29		361.75	362.85	370.22	369.98	369.69	368.48	365.42	362.21	358.01	353.42	348.72	29
30		361.83	362.81	370.22		369.71	368.42	365.36	362.07	357.81	353.26	348.58	30
31			361.78	370.22		369.72		365.30		357.73	353.14		31

Clock out of Order
Range: September 31 - November 1 359.25 to 358.10

E - Estimated
NR - No Record
NF - No Flow

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-23-64	0000	370.39									

TABLE B-4
SURFACE WATER IMPORTS TO THE CENTRAL COASTAL AREA

IMPORT	1964 WATER YEAR												
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
CITY OF VALLEJO FROM CACHE SLOUGH													
Total acre-feet	988	833	753	844	601	619	448	778	1,200	1,530	1,460	1,120	11,174
Average cubic feet per second	16	14	12	14	11	10	7	13	20	25	24	19	15
Monthly quantities in percent of seasonal	7.9	7.5	6.7	7.6	5.4	5.5	4.0	7.0	10.7	13.7	13.1	10.7	
CONTRA COSTA CANAL													
Total acre-feet	5,108	3,455	3,172	3,231	2,902	3,293	3,516	4,042	6,799	8,811	10,247	8,047	62,623
Average cubic feet per second	82	58	51	52	52	53	59	65	113	142	165	134	86
Monthly quantities in percent of seasonal	8.2	5.5	5.1	5.2	4.6	5.3	5.6	6.5	10.9	14.1	16.4	12.8	
HETCH HETCHY AQUEDUCT													
Total acre-feet	10,255	7,476	3,457	12,319	13,961	15,981	15,324	16,121	15,560	16,185	16,236	15,713	158,588
Average cubic feet per second	165	125	56	199	249	258	255	260	259	261	262	262	217
Monthly quantities in percent of seasonal	6.5	4.7	2.2	7.8	8.8	10.1	9.7	10.2	9.8	10.2	10.2	9.9	
MOKELUMNE RIVER AQUEDUCT													
Total acre-feet	16,737	14,865	15,994	16,292	14,833	16,269	15,800	17,985	17,614	18,125	18,043	17,402	199,959
Average cubic feet per second	270	248	258	263	265	262	263	290	294	292	291	290	274
Monthly quantities in percent of seasonal	8.3	7.1	7.9	8.0	8.0	8.0	8.0	8.8	8.9	8.9	8.9	8.8	
POTTER VALLEY POWERHOUSE FROM EEL RIVER													
Total acre-feet	17,540	18,480	18,530	18,480	16,820	16,170	17,900	18,190	13,020	12,560	13,300	12,360	193,350
Average cubic feet per second	283	308	299	298	300	261	298	293	217	202	215	206	265
Monthly quantities in percent of seasonal	9.1	9.6	9.6	9.6	8.7	8.4	9.3	9.4	6.7	6.5	6.9	6.4	
PUTAH SOUTH CANAL *													
Total acre-feet	3,973	173	119	228	254	3,453	13,162	25,801	21,777	29,702	25,224	17,330	141,196
Average cubic feet per second	65	3	2	4	4	56	221	420	366	483	410	291	194
Monthly quantities in percent of seasonal	2.8	0.1	0.1	0.2	0.2	2.4	9.3	18.3	15.4	21.0	17.9	12.3	
SOUTH BAY AQUEDUCT													
Total acre-feet	2,301	487	382	1,277	1,040	1,315	621	2,808	2,986	2,754	2,348	2,537	20,856
Average cubic feet per second	37	8	6	21	19	21	10	45	50	44	38	42	29
Monthly quantities in percent of seasonal	9.6	2.3	1.8	6.1	5.0	6.3	3.0	13.5	14.3	13.2	11.3	12.2	

* A portion of this water is delivered to the Central Coastal Area by the Solano Irrigation District.

APPENDIX C

GROUND WATER MEASUREMENTS

ACKNOWLEDGMENTS

The Department of Water Resources gratefully acknowledges the assistance and contributions of the many public agencies, private organizations, and individuals whose cooperation greatly facilitated the preparation of this appendix. Special mention is made of the following agencies:

Federal

United States Geological Survey

Local

Alameda County Flood Control and Water Conservation District

Alameda County Water District

Campbell Water Company

Cupertino, City of

Gilroy, City of

Monterey County Flood Control and Water Conservation District

Mountain View, City of

Napa County

North Los Altos Water Company

Pacheco Pass Water District

Palo Alto, City of

San Benito County

San Jose Water Works

San Luis Obispo County Flood Control and Water Conservation District

Santa Clara, City of

Santa Clara Valley Water Conservation District

Santa Cruz County

Solano County

South Santa Clara Valley Water Conservation District

Stanford University

Sunnyvale, City of

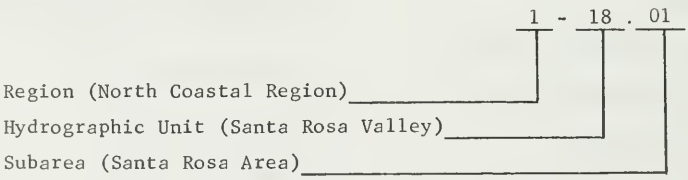
Watsonville, City of

INTRODUCTION

This appendix includes a figure and three tables. Figure C-1, "Fluctuations of Water Levels in Wells", presents hydrographs of 21 selected wells in 19 selected basins or areas. Table C-1, "Ground Water Level Conditions in the Central Coastal Area, Spring 1964", presents average depths to ground waters and average changes by basin and region from the spring of 1963 to the spring of 1964. Table C-2, "Description of Selected Wells", provides a description of 204 wells for which ground water level data are presented in Table C-3, "Ground Water Levels at Wells". A description of the items in Tables C-2 and C-3 follows.

DESCRIPTION OF SELECTED WELLS

Table C-2, "Description of Selected Wells", is arranged in region, basin, and well number order. The water pollution control board regions used in this report and shown on Plate 3, "Ground Water Basins or Units in the Central Coastal Area", are geographic areas defined in Section 13040 of the Water Code. Regions, ground water basins or units and subareas are listed by a numbering system as follows:



State Well Number

The state well numbering system used in this report is based on the township, range, and section subdivision of the Public Land Survey. It is the

system used in all ground water investigations made by the Department of Water Resources. In this report, the number of a well, assigned in accordance with this system, is referred to as the State Well Number. Under the system each section is divided into 40-acre tracts lettered as follows:

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

Wells are numbered within each 40-acre tract according to the chronological sequence in which they have been assigned State Well Numbers. For example, a well which has the number 16N/12W-17K1,M would be in Township 16 North, Range 12 West, Section 17, Mount Diablo Base and Meridian and would be further designated as the first well assigned a State Well Number in Tract K.

Agency Well Number

The agency well number is the number assigned to a well by any agency other than the Department of Water Resources in accordance with the numbering system used by that agency. Agencies that use the state well numbering system normally coordinate assignment of well numbers with the Department. These numbers, when common, are not shown in the "Agency Well Number" column; when different, the last five digits are shown in the "Agency Well Number" column.

Agency Supplying Data

Each number in this column is the code number for a cooperating agency. The agency code consists of a five digit number, the first of which

is a region number. Thus, 32100 refers to Agency 2100 in Region 3. Because of the limitations of punch-card space, the agency code has been shown as a four-digit number without the region number. Therefore, the four-digit agency code should always be referred to the region in which the well is located.

The first digit of the four-digit agency code, as listed below, designates the type of well numbering system used by the agency.

Code	Well Numbering System
1	Location numbers
2	Monterey County Flood Control and Water Conservation District or Santa Clara Valley Water Conservation District
3	Serial numbers
4	Local numbers
5	State or U. S. Geological Survey
6	U. S. Bureau of Reclamation
7	South San Joaquin Irrigation District

The last three digits of the agency code, as listed below, are numbers that designate, within specified serial limits, the type of agency from which the data were obtained.

Code	Type of Agency
000-049	Federal
050-099	State
100-199	County
200-399	Municipal
400-699	District - Water, Irrigation, Conservation, etc.
700-999	Private

The agencies and code numbers assigned to them in each of the regions are listed in the following tabulation:

Agency Code	Agency
	North Coastal Region
5000	U. S. Geological Survey
5050	Department of Water Resources
	San Francisco Bay Region
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
5101	Napa County
5109	Solano County
5401	Alameda County Water District
	Central Coastal Region
2100 and 5100 1/	Monterey County Flood Control and Water Conservation District
2400	Santa Clara Valley Water Conservation District
5050	Department of Water Resources
5101	San Benito County
5102	Santa Cruz County
5400	South Santa Clara Valley Water Conservation District

1/ In the Paso Robles subbasin of Salinas Valley (3-4.06), this agency number refers to the San Luis Obispo County Flood Control and Water Conservation District.

Well Use

The well use is indicated as follows:

Code	Well Use
1	Domestic
2	Irrigation
3	Municipal
4	Industrial
5	Injection
6	Drainage
7	Domestic and Irrigation
8	Test
9	Stock
0	Unused

Well Depth in Feet

Well depths shown were reported by the owner, obtained from a driller's log, or measured at the time of the well canvass.

Data Available

Under this heading, code numbers, as listed below, indicate the type of data that are available with respect to well logs, water analyses, and production records.

Data	Code
Log record	
Log	1
Confidential log (Sec. 7076, Water Code)	2
Water Analyses	
Mineral	1

Data	Code
Water Analyses	
Sanitary	2
Heavy Metals	3
Mineral and Sanitary	4
Production record	
Available	1
Pump test available	2

Record Begins and Record Ends

The last two digits of the year the record began or ended are shown.

GROUND WATER LEVELS AT WELLS

Table C-3, "Ground Water Levels at Wells", is arranged in region, basin, well number and date order. It includes measurements of depths to water in wells made from July 1, 1963, through June 30, 1964. Table headings discussed below are only those that were not discussed under "Description of Selected Wells".

Ground Surface Elevation in Feet

The numbers in this column give the elevation in feet of the ground surface from which depth to the water surface in the well is reported. The datum used is mean sea level, USC&GS datum, 1929. Elevations of ground surface are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date

The date shown in the column is the date on which the depth measurement, shown in the next column, was made. If the day of the month is unknown, it is indicated by 00.

Ground Surface to Water Surface in Feet

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 followed with an asterisk superscript to indicate a questionable measurement. Depth to ground water measurements may be questionable for such reasons as (a) well being pumped while undergoing measurement, (b) nearby pump operating, (c) casing leaking or wet, (d) well pumped recently, (e) air gauge measurement, or (f) recharge operation at well or nearby. The specific reason for any asterisk or any given measurement may be obtained from the Department of Water Resources.

Other symbols used are:

Measurement discontinued	#
Well destroyed	@
No measurement for other reasons	□

Water Surface Elevation in Feet

This is the elevation in feet of the water surface in the well based on mean sea level, USC&GS datum, 1929. It was derived by subtraction of the depth measurement from the ground surface elevation. Negative values indicate elevations below datum.

The words FLOW and DRY are shown in this column to indicate a flowing or dry well respectively.

Agency Supplying Data

Each number in this column is the code number for the agency from which the water level data were obtained.

TABLE C-1
GROUND WATER LEVEL CONDITIONS
IN THE CENTRAL COASTAL AREA
SPRING 1964

Ground Water Basin or Unit	Basin Number	Average Change in Ground Water Level 1/ Spring 1963 to Spring 1964 (in feet)	Average Depth to Ground Water Spring 1964 (in feet)
		Region 1	
Potter Valley	1-14.00	-0.7	7.3
Ukiah Valley	1-15.00	-1.5	7.2
Sanel Valley	1-16.00	-3.0	8.3
Alexander Valley	1-17.00	-4.4	8.9
Santa Rosa Valley	1-18.00		
Santa Rosa Area	1-18.01	-1.0	14.0
Healdsburg Area	1-18.02	-3.5	16.0
Lower Russian River Valley	1-98.00	-4.2	13.6
	Region 1 Averages: 2/	-2.0	11.6
		Region 2	
Petaluma Valley	2-1.00	-0.2	23.4
Napa-Sonoma Valley	2-2.00		
Napa Valley	2-2.01	+0.6	11.4
Sonoma Valley	2-2.02	-2.3	18.8
Suisun-Fairfield Valley	2-3.00	-2.1	8.9
Ygnacio Valley	2-6.00	-2.3	17.4
Santa Clara Valley	2-9.00		
East Bay Area	2-9.01	-0.7	60.0
South Bay Area	2-9.02	+6.9	116.3
Livermore Valley	2-10.00	-2.5	66.0
Half Moon Bay Terrace	2-22.00	-2.2	20.9
San Gregorio Valley	2-24.00	-1.3	10.4
Pescadero Valley	2-26.00	-2.1	8.2
	Region 2 Averages: 2/	+0.9	52.4
		Region 3	
Soquel Valley	3-1.00	+1.5	64.1
Pajaro Valley	3-2.00	-4.1	64.8
Gilroy-Hollister Valley	3-3.00		
South Santa Clara County	3-3.01	+8.0	39.3
San Benito County	3-3.02	-3.4	80.3
Salinas Valley	3-4.00	-4.4	59.6
Carmel Valley	3-7.00	-2.3	18.6
West Santa Cruz Terrace	3-26.00	No measurements in 1963	30.8
	Region 3 Averages: 2/	-3.7	60.5
	Central Coastal Area Averages: 3/	-1.9	52.5

1/ + indicates rise in water level.
- indicates decline in water level.

2/ Region Averages - $\frac{\Sigma \text{ (basin average x basin area)}}{\Sigma \text{ basin areas}}$

3/ Central Coastal Area Averages - $\frac{\Sigma \text{ (region average x region area)}}{\Sigma \text{ region areas}}$

TABLE C-2
DESCRIPTION OF SELECTED WELLS

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE: LOG	DATA AVAILABLE: WATER ANAL.	DATA AVAILABLE: PROD. REC.	RECORD BEGINS	RECORD ENDS
NORTH COASTAL REGION									
POTTER VALLEY				1-14.00					
17N/11W-18J01 M		5000	1	35				51	
17N/11W-32J01 M		5000	1	12				51	
UKIAH VALLEY				1-15.00					
15N/12W-08L01 M		5000	1	62				51	
15N/12W-21M01 M		5000	7	46				51	63
15N/12W-35M01 M		5000	2	190				51	
HOPLAND VALLEY				1-16.00					
13N/11W-18E01 M		5000	7	52				53	
13N/11W-19P01 M		5000	2	44				53	
13N/11W-20G01 M		5000	1	135				53	
ALEXANDER VALLEY				1-17.00					
10N/09W-18B01 M		5000	2	180				50	
10N/09W-26L02 M		5000	1	40				50	
10N/09W-33C01 M	33B01	5000	1	20				50	
11N/10W-08P01 M		5000	1	30				51	
11N/10W-17P02 M		5000	2	36				53	
11N/10W-19F02 M		5000	1	334				52	
SANTA ROSA VALLEY				1-18.00					
SANTA ROSA AREA				1-18.01					
6N/08W-07P02 M		5000	7	120				45	
6N/08W-13R01 M		5000	1	250				42	
7N/07W-06R01 M		5050	7	133				51	
SANTA ROSA AREA				1-18.01					
7N/09W-35D02 M		5050	1	167				50	
8N/09W-36N01 M		5000	0	89				49	
HEALDSBURG AREA				1-18.02					
8N/09W-03P01 M		5000	1	110				50	
8N/09W-22L01 M		5000	1	44				51	
9N/09W-28N01 M		5000	2	53				53	
10N/10W-35Q01 M		5000	0	285				54	
LOWER RUSSIAN RIVER VALLEY				1-98.00					
7N/10W-06N01 M	7D01	5000	3	120				58	
7N/11W-14E01 M		5000	1	47				51	

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE: LOG	DATA AVAILABLE: WATER ANAL.	DATA AVAILABLE: PROD. REC.	RECORD BEGINS	RECORD ENDS
SAN FRANCISCO BAY REGION									
PETALUMA VALLEY				2-01.00					
3N/06W-01Q01 M		5050	1	225				50	
5N/07W-20B02 M		5000	9	158				59	
5N/07W-21H01 M		5000	1	92				59	
5N/07W-26R01 M		5000	0	428				50	
5N/07W-35K01 M		5050	2	78				49	
NAPA-SONOMA VALLEY				2-02.00					
NAPA VALLEY				2-02.01					
5N/04W-11M01 M		5000	1	59	1			50	
6N/04W-17A01 M		5000	0	250	1			49	
7N/05W-09Q01 M		5101	2	333	1			49	
7N/05W-09Q02 M	16B02	5000	0	232				49	
7N/05W-09Q03 M		5101	1	25				49	
7N/05W-23D02 M		5101	2	129				49	
8N/06W-10Q01 M		5000	9	184	1			49	
SONOMA VALLEY				2-02.02					
5N/05W-17C01 M		5000	1	70				50	
5N/05W-28N01 M		5050	2	130	1			46	
5N/05W-29N01 M		5000	2	100				51	
SUISUN-FAIRFIELD VALLEY				2-03.00					
4N/02W-06A01 M		5109	0	39				20	
4N/02W-09A01 M		5109	0	37				48	
4N/03W-01D01 M		5109	1	67				18	
5N/01E-36A01 M		5109	9	38				29	

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE: LOG	DATA AVAILABLE: WATER ANAL.	DATA AVAILABLE: PROD. REC.	RECORD BEGINS	RECORD ENDS
SUISUN-FAIRFIELD VALLEY				2-03.00					
5N/01W-07E01 M		5109	9	33				48	
5N/01W-28P01 M		5109	1	40				49	
5N/02W-17D02 M		5109	2	70				48	
5N/02W-27J02 M		5000	0	60				49	
5N/02W-29R01 M		5109	2	120				49	
5N/02W-30J01 M		5000	2	220				49	
5N/03W-26F02 M		5109	1	282				18	
YGNACIO VALLEY				2-06.00					
1N/01W-07K01 M		5050	1					58	
1N/02W-11N01 M		5050	1	81	2			58	
2N/02W-27R01 M		5050	1	131				58	
2N/02W-36E01 M		5050	1	40				58	
SANTA CLARA VALLEY				2-09.00					
SOUTH ALAMEDA COUNTY UPR AQUIFER				2-09.01					
3S/02W-08R05 M		5100	1	85				50	
3S/03W-24Q02 M		5100	9	80				49	
4S/01W-18G01 M		5401	4	160				58	
4S/01W-22P05 M		5100	2	180				48	
4S/01W-29C04 M		5401	0	145				50	
4S/02W-24Q02 M		5100	2					49	
5S/01W-04F01 M		5401	0	97				57	
5S/01W-09Q01 M		5100	9	60				50	

TABLE C-2
DESCRIPTION OF SELECTED WELLS

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE: LOG	DATA AVAILABLE: WATER ANAL.	DATA AVAILABLE: PROD. REC.	RECORD BEGINS	RECORD ENDS
SOUTH ALAMEDA COUNTY LWR AQUIFER			2-09.01						
2S/03W-36R01 M		5100	2	601					59
3S/02W-19A02 M		5050	0	218					50
3S/03W-24J01 M		5100	7	511					49
4S/02W-02Q01 M		5100	2	475					50
4S/02W-35R02 M		5401	7	224	2				58
4S/02W-36K01 M		5401	0	241					49
5S/01W-09M01 M		5100	2	297	1				49
NORTH SANTA CLARA COUNTY			2-09.02						
6S/01E-07E01 M	59	2400	0	525					36
6S/01E-21R01 M	342A	2400	2	560	2				51
6S/01E-23P02 M	127	2400	0	295					36
6S/01E-30M01 M	84	2400	7	250					30
6S/01W-23E01 M		5000	2	425					58
6S/02W-16R01 M	5	2400	2						36
6S/02W-25C01 M	30	2400	1	500					30
6S/02W-35C01 M	20	2400	2	480					30
7S/01E-01K01 M	180A	2400	7	400					36
7S/01E-08L01 M	274	2400		235					36
7S/01E-09D02 M	120	2400	3						36
7S/01E-16C05 M		5000	3	908					58
7S/01E-31A02 M	148	2400	2						36
7S/02E-07P01 M	403	2400	3	525					57
7S/02E-17H01 M	304	2400		400					31

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE: LOG	DATA AVAILABLE: WATER ANAL.	DATA AVAILABLE: PROD. REC.	RECORD BEGINS	RECORD ENDS
NORTH SANTA CLARA COUNTY			2-09.02						
7S/01W-35C01 M	117	2400	3	438					36
7S/02W-03Q01 M	23A	2400	2	800					36
7S/02W-04B01 M	13	2400	2	450					36
7S/02W-22A01 M	37	2400	2	620					36
8S/01E-07H02 M	166A	2400		350					54
8S/01E-13H01 M	257	2400	7	110					36
8S/02E-20F03 M	297	2400							40
8S/02E-22D01 M	233	2400	7						36
8S/01W-15B01 M	129	2400		64					36
9S/02E-01J01 M	238B	2400	7	135					36
9S/02E-01M01 M	279	2400		114					37
LIVERMORE VALLEY			2-10.00						
2S/02E-25N01 M		5100							48
2S/01W-26C01 M		5100	2	360					48
3S/01E-11H01 M		5100	7	303					49
3S/02E-02R01 M		5100	2	437	1				48
3S/02E-10H01 M		5100	2	376					48
HALF MOON BAY TERRACE			2-22.00						
5S/05W-20L01 M		5050	0	69					53
5S/05W-29N01 M		5050	2	82					53
6S/05W-08B01 M		5050	2	85					53

DESCRIPTION OF SELECTED WELLS

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE: LOG	DATA AVAILABLE: WATER ANAL.	DATA AVAILABLE: PROD. REC.	RECORD BEGINS	RECORD ENDS
	SAN GREGORIO VALLEY			2-24.00					
	7S/05W-13E01 M	5050	0	45					58
	7S/05W-15C01 M	5050	2	85					58
	7S/05W-15E01 M	5050	7						53
	7S/05W-15E02 M	5050	1						53
	7S/05W-15H02 M	5050	1						60
	PESCADERO VALLEY			2-26.00					
	8S/05W-09H01 M	5050	2						53
	8S/05W-11M01 M	5050	1	36					53

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE: LOG	DATA AVAILABLE: WATER ANAL.	DATA AVAILABLE: PROD. REC.	RECORD BEGINS	RECORD ENDS
	CENTRAL COASTAL REGION								
	SOQUEL VALLEY			3-01.00					
	11S/01W-09L01 M	5050	0						48
	11S/01W-15H01 M	5050	0						48
	PAJARO VALLEY			3-02.00					
	12S/01E-24G01 M	5050	2	200					47
	12S/02E-16J01 M	5050	2						47
	12S/02E-31K01 M	5050	2	219					47
	12S/02E-31K01 M	5100	2	219					47
	13S/02E-05B01 M	5050	0	225					56
	GILROY-HOLLISTER VALLEY			3-03.00					
	SOUTH SANTA CLARA COUNTY			3-03.01					
	9S/03E-27C02 M 374	2400	7	300					43
	9S/03E-29B01 M	5050	0	170					48
	10S/03E-34L01 M	5050	7			1			48
	10S/04E-18G02 M	5050	7	184					48
	10S/04E-35E01 M	5050	2	447					48
	11S/03E-01B01 M	5400	2						57
	SAN BENITO COUNTY			3-03.02					
	11S/05E-13D01 M	5050	2	125			2		37
	12S/04E-20C01 M	5101	2	736	1				49
	12S/05E-33A01 M	5050	2	150					24
	13S/05E-11Q01 M	5101	0	44					24

TABLE C-2

DESCRIPTION OF SELECTED WELLS

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE			RECORD BEGINS	RECORD ENDS
					LOG	WATER ANAL.	PROD. REC.		
SALINAS VALLEY				3-04.00					
PRESSURE AREA 180 FOOT AQUIFER				3-04.01					
14S/02E-03C01 M	2B 001	2100	2						31
14S/02E-15L01 M	2C 025A	2100	2	176					16
15S/02E-01Q01 M	2D 023	2100	7	196	1				31
15S/03E-16M01 M	3D 040	2100	2						31
15S/04E-33A01 M	4D 056	2100	2	279	1				31
16S/04E-11D01 M	4E 030D	2100	1						31
PRESSURE AREA 400 FOOT AQUIFER				3-04.01					
13S/02E-31Q01 M	1B 011A	2100	2	500	1				31
14S/03E-18J01 M	2C 119	2100	2	513	1				31
EAST SIDE AREA				3-04.02					
16S/05E-17R01 M	5E 026	2100	2	299					16
ARROYO SECO CONE				3-04.04					
18S/06E-15M01 M	7G 029	2100	2	288	1				31
19S/06E-11C01 M	7H 036	2100	2	320					44
UPPER VALLEY AREA				3-04.05					
19S/07E-10P01 M	8H 031	2100	2	245					31
20S/08E-05R01 M	9I 004	2100	2	372					16
21S/09E-06K01 M	10J 001	2100	2						16
21S/10E-32N01 M	11K 002	2100	2						31
22S/10E-16K01 M	12K 003	2100	2						31

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE			RECORD BEGINS	RECORD ENDS
					LOG	WATER ANAL.	PROD. REC.		
PASO ROBLES				3-04.06					
24S/10E-11C01 M		5100							
24S/11E-25N01 M		5100							
24S/11E-33R01 M		5100							
24S/11E-35J01 M		5100							
24S/12E-17N01 M		5100							
24S/15E-33C01 M		5100							
25S/11E-35G01 M		5100							
25S/12E-17J01 M		5100							
25S/12E-17R01 M		5100							
25S/12E-26K01 M		5100							
25S/13E-11E01 M		5100							
25S/16E-17L01 M		5100							
25S/16E-30M01 M		5100							
26S/12E-04N01 M		5100							
26S/12E-26E01 M		5100							
26S/12E-35M01 M		5100							
26S/13E-10D01 M		5100							
26S/13E-34B01 M		5100							
26S/14E-16L01 M		5100							
26S/14E-35D01 M		5100							
26S/15E-02B01 M		5100							
26S/15E-28Q02 M		5100							
26S/15E-29N01 M		5100							
27S/12E-21N01 M		5100							

DESCRIPTION OF SELECTED WELLS

STATE WELL NUMBER	AGENCY WELL NUMBER	AGENCY SUPPLYING DATA	WELL USE	WELL DEPTH IN FEET	DATA AVAILABLE: LOG	DATA AVAILABLE: WATER ANAL.	DATA AVAILABLE: PROD. REC.	RECORD BEGINS	RECORD ENDS
	PASO ROBLES			3-04.06					
27S/13E-24N01 M		5100							
27S/13E-32B01 M		5100							
27S/15E-10R02 M		5100							
27S/15E-13A01 M		5100							
27S/16E-21E02 M		5100							
28S/12E-10G01 M		5100							
28S/12E-10R02 M		5100							
28S/12E-13N01 M		5100							
28S/12E-14G01 M		5100							
28S/13E-04K01 M		5100							
28S/13E-04K02 M		5100							
28S/14E-07E01 M		5100							
28S/16E-23M01 M		5100							
29S/13E-05F03 M		5100							
29S/13E-05K02 M		5100							
29S/13E-06A01 M		5100							
29S/13E-19H01 M		5100							
	CARMEL VALLEY			3-07.00					
16S/01E-25B01 M		5100	7	60				52	
	WEST SANTA CRUZ TERRACE			3-26.00					
11S/02W-22K01 M		5050	2					54	

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION					
POTTER VALLEY			1-14.00		
17N/11W-18J01 M	955.0	7-09-63	.5	954.5	5000
		8-19-63	.6	954.4	
		9-17-63	.3	954.7	
		10-23-63	.4	955.4	
		11-20-63	.9	955.9	
		12-19-63	.9	955.9	
		1-15-64	◻		
		2-25-64	.9	954.1	
		3-17-64	◻		
		4-14-64	◻		
		5-12-64	1.1	953.9	
		6-16-64	.3	954.7	
17N/11W-32J01 M	895.0	7-09-63	1.9	893.1	5000
		8-19-63	2.8	892.2	
		9-17-63	2.6	892.4	
		10-23-63	1.8	893.2	
		11-20-63	.4	894.6	
		12-19-63	1.6	893.4	
		1-15-64	1.5	893.5	
		2-25-64	2.2	892.8	
		3-17-64	2.0	893.0	
		4-13-64	3.1	891.9	
		5-12-64	4.2	890.8	
		6-16-64	4.1	890.9	
UKIAH VALLEY			1-15.00		
15N/12W-08L01 M	665.0	7-09-63	21.6	643.4	5000
		8-13-63	23.0	642.0	
		9-17-63	24.5	640.5	
		10-22-63	25.4	639.6	
		11-19-63	13.8	651.2	
		12-19-63	20.6	644.4	
		1-15-64	20.8	644.2	
		2-25-64	18.0	647.0	
		3-17-64	13.8	651.2	
		4-14-64	20.7	644.3	
		5-12-64	21.8	643.2	
		6-16-64	22.8	642.2	
15N/12W-21M01 M	590.0	7-09-63	4.3	585.7	5000
		8-13-63	7.2	582.8	
		9-17-63	10.0	580.0	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION					
UKIAH VALLEY			1-15.00		
15N/12W-21M01 M CONT.	590.0	10-22-63	◉		5000
15N/12W-35M01 M	600.0	7-09-63	◻		5000
		8-13-63	5.4	594.6	
		9-16-63	5.8	594.2	
		10-22-63	◻		
		11-19-63	4.9	595.1	
		12-19-63	◻		
		1-15-64	7.4	592.6	
		2-25-64	5.3	594.7	
		3-17-64	5.4	594.6	
		4-14-64	6.0	594.0	
		5-12-64	6.9	593.1	
		6-16-64	6.6	593.4	
HOPLAND VALLEY			1-16.00		
13N/11W-18E01 M	490.0	7-09-63	12.3	477.7	5000
		8-12-63	◻		
		9-16-63	12.2	477.8	
		10-22-63	12.0	478.0	
		11-19-63	10.8	479.2	
		12-19-63	10.7	479.3	
		1-15-64	12.8	477.2	
		2-25-64	11.0	479.0	
		3-17-64	10.9	479.1	
		4-14-64	◻		
		5-12-64	◻		
		6-16-64	12.6*	477.4	
13N/11W-19P01 M	488.0	7-09-63	12.6	475.4	5000
		8-12-63	15.5	472.5	
		9-16-63	17.7	470.3	
		10-22-63	17.1	470.9	
		11-19-63	10.8	477.2	
		12-19-63	11.3	476.7	
		1-15-64	11.5	476.5	
		2-25-64	9.9	478.1	
		3-17-64	9.7	478.3	
		4-14-64	10.4	477.6	
		5-12-64	11.4	476.6	
		6-16-64	13.9	474.1	
13N/11W-20G01 M	515.0	7-09-63	6.1	508.9	5000
		8-12-63	7.8	507.1	

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION					
HOPLAND VALLEY			1-16.00		
13N/11W-20G01 M	515.0	9-16-63	11.9	503.1	5000
CONT.		10-22-63	10.7	504.3	
		11-19-63	5.0	510.0	
		12-19-63	4.5	510.5	
		1-15-64	4.4	510.6	
		2-25-64	4.2	510.8	
		3-17-64	4.3	510.7	
		4-14-64	4.5	510.5	
		5-12-64	4.8	510.2	
		6-16-64	7.4	507.6	
ALEXANDER VALLEY			1-17.00		
10N/09W-18B01 M	230.0	7-09-63	¤		5000
		8-12-63	¤		
		9-16-63	19.8	210.2	
		10-22-63	19.5	210.5	
		11-19-63	17.7	212.3	
		12-19-63	17.3	212.7	
		1-15-64	18.0	212.0	
		2-25-64	16.9	213.1	
		3-17-64	17.1	212.9	
		4-14-64	18.0	212.0	
		5-12-64	18.9	211.1	
		6-16-64	19.6	210.4	
10N/09W-26L02 M	205.0	7-09-63	7.9	197.1	5000
		8-12-63	12.2	192.8	
		9-16-63	14.1	190.9	
		10-22-63	15.6	189.4	
		11-19-63	8.7	196.3	
		12-19-63	3.6	201.4	
		1-15-64	3.5	201.5	
		2-25-64	2.5	202.5	
		3-17-64	2.3	202.7	
		4-14-64	3.3	201.7	
		5-12-64	4.2	200.8	
		6-16-64	10.8	194.2	
10N/09W-33C01 M	180.0	7-09-63	8.2	171.8	5000
		8-12-63	9.2	170.8	
		9-16-63	7.8	172.2	
		10-22-63	8.3	171.7	
		11-18-63	5.5	174.5	
		12-19-63	5.5	174.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION					
ALEXANDER VALLEY			1-17.00		
10N/09W-33C01 M	180.0	1-15-64	6.5	173.5	5000
CONT.		2-25-64	6.0	174.0	
		3-17-64	6.1	173.9	
		4-14-64	3.0	177.0	
		5-12-64	7.9	172.1	
		6-16-64	8.4	171.6	
11N/10W-08P01 M	305.0	7-09-63	¤		5000
		8-12-63	12.6	292.4	
		9-16-63	¤		
		10-22-63	12.0	293.0	
		11-19-63	11.0	294.0	
		12-19-63	7.8	297.2	
		1-15-64	11.1	293.9	
		2-25-64	10.0	295.0	
		3-17-64	10.8	294.2	
		4-14-64	11.4	293.6	
		5-12-64	12.8	292.2	
		6-16-64	12.7	292.3	
11N/10W-17P02 M	292.0	7-09-63	¤		5000
		8-12-63	10.6	281.4	
		9-16-63	10.1	281.9	
		10-22-63	¤		
		11-19-63	8.7	283.3	
		12-19-63	10.9	281.1	
		1-15-64	9.0	283.0	
		2-25-64	8.3	283.7	
		3-17-64	8.8	283.2	
		4-14-64	9.4	282.6	
		5-12-64	¤		
		6-16-64	10.5	281.5	
11N/10W-19F02 M	346.0	7-09-63	4.1	341.9	5000
		8-12-63	8.3	337.7	
		9-16-63	10.2	335.8	
		10-22-63	10.1	335.9	
		11-19-63	3.7	342.3	
		12-19-63	3.2	342.8	
		1-15-64	3.3	342.7	
		2-25-64	4.0	342.0	
		3-17-64	3.8	342.2	
		4-14-64	4.3	341.7	
		5-12-64	5.3	340.7	
		6-16-64	6.8	339.2	

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION					
SANTA ROSA VALLEY			1-18.00		
SANTA ROSA AREA			1-18.01		
6N/08W-07P02 M	95.0	7-09-63	19.1	75.9	5000
		8-12-63	29.4	65.6	
		9-16-63	24.0	71.0	
		10-22-63	¤		
		11-18-63	23.1	71.9	
		12-19-63	17.9	77.1	
		1-14-64	18.1	76.9	
		2-25-64	15.8	79.2	
		3-17-64	16.8	78.2	
		4-14-64	18.0	77.0	
		5-12-64	17.8	77.2	
		6-16-64	20.0	75.0	
6N/08W-13R01 M	115.0	7-09-63	¤		5000
		8-12-63	18.1	96.9	
		9-16-63	¤		
		10-22-63	20.7	94.3	
		11-18-63	19.8	95.2	
		12-19-63	18.2	96.8	
		1-14-64	17.3	97.7	
		2-25-64	16.2	98.8	
		3-16-64	15.5	99.5	
		4-13-64	15.3	99.7	
		5-11-64	17.4	97.6	
		6-16-64	¤		
7N/07W-06R01 M	275.0	3-24-64	11.6	263.4	5050
7N/08W-31C01 M	85.0	3-23-64	#		5050
7N/09W-35Q02 M	135.0	3-23-64	32.0	103.0	5050
8N/09W-36N01 M	90.0	7-09-63	3.2	86.8	5000
		8-12-63	3.0	87.0	
		9-16-63	8.6	81.4	
		10-22-63	10.2	79.8	
		11-18-63	10.0	80.0	
		12-19-63	8.4	81.6	
		1-14-64	8.5	81.5	
		2-25-64	7.1	82.9	
		3-17-64	7.4	82.6	
		4-14-64	7.8	82.2	
		5-12-64	8.2	81.8	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD. SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION					
SANTA ROSA AREA			1-18.01		
8N/09W-36N01 M CONT.	90.0	6-16-64	9.5	80.5	5000
HEALOSBURG AREA			1-18.02		
8N/09W-03P01 M	77.0	7-09-63	6.0	71.0	5000
		8-12-63	2.4	74.6	
		9-16-63	7.3	69.7	
		10-22-63	¤		
		11-18-63	¤		
		12-19-63	¤		
		1-14-64	7.0	70.0	
		2-25-64	¤		
		3-17-64	9.0*	68.0	
		4-14-64	16.6	60.4	
		5-12-64	5.8	71.2	
		6-16-64	5.8	71.2	
8N/09W-22L01 M	67.0	7-09-63	¤		5000
		8-12-63	8.1	58.9	
		9-16-63	¤		
		10-22-63	¤		
		11-18-63	¤		
		12-19-63	¤		
		1-14-64	21.0	46.0	
		2-25-64	25.3	41.7	
		3-17-64	24.8	42.2	
		4-14-64	¤		
		5-12-64	¤		
		6-16-64	31.8	35.2	
9N/09W-28N01 M	90.0	7-09-63	14.7	75.3	5000
		8-12-63	15.1	74.9	
		9-16-63	19.4	70.6	
		10-22-63	15.0	75.0	
		11-18-63	13.6	76.4	
		12-19-63	14.4	75.6	
		1-14-64	14.7	75.3	
		2-25-64	14.3	75.7	
		3-17-64	14.3	75.7	
		4-14-64	14.6	75.4	
		5-12-64	15.1	74.9	
		6-16-64	15.4	74.6	
10N/10W-35Q01 M	142.0	7-09-63	3.6	138.4	5000
		8-12-63	4.9	137.1	

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION					
HEALDSBURG AREA			1-18.02		
10N/10W-35001 M	142.0	9-16-63	6.3	135.7	5000
CONT.		10-22-63	6.2	135.8	
		11-18-63	4.9	137.1	
		12-19-63	2.4	139.6	
		1-14-64	3.2	138.8	
		2-25-64	2.4	139.6	
		3-17-64	2.8	139.2	
		4-14-64	3.6	138.4	
		5-12-64	4.1	137.9	
		6-16-64	4.8	137.2	
LOWER RUSSIAN RIVER VALLEY			1-98.00		
7N/10W-06N01 M	25.0	7-09-63	20.9	4.1	5000
		8-12-63	20.6	4.4	
		9-16-63	20.1	4.9	
		10-22-63	19.8	5.2	
		11-18-63	19.2	5.8	
		12-19-63	17.6	7.4	
		1-14-64	20.1	4.9	
		2-25-64	19.6	5.4	
		3-17-64	19.9	5.1	
		4-14-64	19.7	5.3	
		5-12-64	21.4	3.6	
		6-16-64	21.1	3.9	
7N/11W-14E01 M	25.0	7-09-63	19.0	6.0	5000
		8-12-63	19.3	5.7	
		9-16-63	19.0	6.0	
		10-22-63	15.8	9.2	
		11-18-63	16.8	8.2	
		12-19-63	17.1	7.9	
		1-14-64	18.4	6.6	
		2-25-64	19.0	6.0	
		3-17-64	18.7	6.3	
		4-14-64	16.8	8.2	
		5-12-64	19.8	5.2	
		6-16-64	20.1	4.9	

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
PETALUMA VALLEY			2-01.00		
3N/06W-01Q01 M	2.0	3-23-64	.5	1.5	5050
5N/07W-20B02 M	41.0	7-09-63	69.5	- 28.5	5000
		8-12-63	68.1	- 27.1	
		9-16-63	67.4	- 26.4	
		10-22-63	61.9	- 20.9	
		11-18-63	39.2	1.8	
		12-19-63	55.1	- 14.1	
		1-14-64	54.1	- 13.1	
		2-25-64	52.8	- 11.8	
		3-16-64	49.9	- 8.9	
		4-13-64	55.3	- 14.3	
		5-11-64	60.5	- 19.5	
		6-16-64	60.9	- 19.9	
5N/07W-21H01 M	65.0	7-08-63	33.8	31.2	5000
		8-12-63	39.0	26.0	
		9-16-63	39.1	25.9	
		10-22-63	41.7	23.3	
		11-18-63	42.7	22.3	
		12-19-63	43.4	21.6	
		1-14-64	43.7	21.3	
		2-25-64	40.0	25.0	
		3-16-64	42.7	22.3	
		4-13-64	40.1	24.9	
		5-11-64	¤		
		6-16-64	41.2	23.8	
5N/07W-26R01 M	53.6	7-08-63	¤		5000
		8-12-63	21.7	31.9	
		9-16-63	¤		
		10-22-63	¤		
		11-18-63	25.4	28.2	
		12-19-63	23.7	29.9	
		1-14-64	24.4	29.2	
		2-25-64	23.2	30.4	
		3-16-64	23.8	29.8	
		4-13-64	15.3	38.3	
		5-11-64	¤		
		6-16-64	26.1	27.5	
5N/07W-35K01 M	18.8	3-23-64	22.8	- 4.0	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
NAPA-SONOMA VALLEY			2-02.00		
NAPA VALLEY			2-02.01		
5N/04W-11M01 M	13.0	7-08-63	8.1	4.9	5000
		8-12-63	7.9	5.1	
		9-16-63	8.5	4.5	
		10-21-63	8.0	5.0	
		11-18-63	7.1	5.9	
		12-20-63	7.2	5.8	
		1-13-64	8.7	4.3	
		2-24-64	7.1	5.9	
		3-16-64	7.6	5.4	
		4-13-64	8.4	4.6	
		5-11-64	8.6	4.4	
		6-15-64	8.5	4.5	
6N/04W-17A01 M	67.0	7-08-63	7.2	59.8	5000
		8-13-63	9.8	57.2	
		9-17-63	12.5	54.5	
		10-21-63	12.0	55.0	
		11-19-63	10.8	56.2	
		12-20-63	9.9	57.1	
		1-13-64	10.1	56.9	
		2-24-64	8.2	58.8	
		3-16-64	8.3	58.7	
		4-13-64	8.6	58.4	
		5-11-64	16.4	50.6	
		6-15-64	15.9	51.1	
7N/05W-09Q01 M	155.0	4-06-64	10.0*	145.0	5101
7N/05W-09Q02 M	155.0	7-08-63	10.3	144.7	5000
		8-13-63	16.2*	138.8	
		9-17-63	13.7	141.3	
		10-21-63	14.8	140.2	
		11-19-63	13.8	141.2	
		12-20-63	12.3	142.7	
		1-13-64	11.9	143.1	
		2-24-64	9.8	145.2	
		3-16-64	10.0	145.0	
		4-13-64	10.4	144.6	
		5-11-64	11.2	143.8	
		6-15-64	13.0	142.0	
7N/05W-09Q03 M	155.0	4-06-64	7.1*	147.9	5101
7N/05W-23D02 M	127.0	4-06-64	2.6	124.4	5101

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
NAPA VALLEY			2-02.01		
8N/06W-10Q01 M	290.0	7-08-63	3.8	286.2	5000
		8-13-63	5.0	285.0	
		9-17-63	6.6	283.4	
		10-21-63	7.4	282.6	
		11-19-63	5.8	284.2	
		12-20-63	3.4	286.6	
		1-13-64	4.2	285.8	
		2-24-64	2.1	287.9	
		3-16-64	2.5	287.5	
		4-13-64	3.2	286.8	
		5-11-64	4.0	286.0	
		6-15-64	5.0	285.0	
SONOMA VALLEY			2-02.02		
5N/05W-17C01 M	85.0	7-08-63	18.8	66.2	5000
		8-12-63	20.3	64.7	
		9-16-63	21.8	63.2	
		10-22-63	20.5	64.5	
		11-00-63	¤		
		12-19-63	17.9	67.1	
		1-00-64	¤		
		2-24-64	13.8	71.2	
		3-24-64	16.2	68.8	
		4-13-64	16.6	68.4	
		5-00-64	¤		
		6-16-64	19.4	65.6	
5N/05W-28N01 M	11.0	3-24-64	6.9	4.1	5050
5N/05W-29N01 M	16.0	7-08-63	9.4	6.6	5000
		8-12-63	10.6	5.4	
		9-16-63	11.6	4.4	
		10-22-63	12.0	4.0	
		11-18-63	11.5	4.5	
		12-19-63	10.0	6.0	
		1-14-64	10.3	5.7	
		2-24-64	8.3	7.7	
		3-16-64	8.8	7.2	
		4-13-64	8.8	7.2	
		5-11-64	9.5	6.5	
		6-16-64	10.1	5.9	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	OATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
SUISUN-FAIRFIELD VALLEY			2-03.00		
4N/02W-06A01 M	35.0	10-11-63	16.5	18.5	5109
		3-16-64	16.4	18.6	
4N/02W-09A01 M	7.0	10-15-63	4.9	2.1	5109
		3-16-64	3.6	3.4	
4N/03W-01D01 M	37.0	10-15-63	8.0	29.0	5109
		3-16-64	5.4	31.6	
5N/01E-36A01 M	24.0	10-16-63	9.8	14.2	5109
		3-16-64	13.2	10.8	
5N/01W-07E01 M	115.0	10-16-63	13.3	101.7	5109
		3-16-64	11.8	103.2	
5N/01W-28P01 M	15.0	10-16-63	¤		5109
		3-16-64	¤		
5N/02W-17D02 M	101.0	10-16-63	#		5109
		3-17-64	¤		
5N/02W-27J02 M	24.0	7-08-63	21.0	3.0	5000
		8-12-63	21.3	2.7	
		9-16-63	23.1	0.9	
		10-21-63	23.0	1.0	
		11-18-63	21.8	2.2	
		12-20-63	14.8	9.2	
		1-13-64	12.3	11.7	
		2-24-64	9.8	14.2	
		3-16-64	9.1	14.9	
		4-13-64	8.8	15.2	
		5-11-64	2.6	21.4	
		6-15-64	13.6	10.4	
5N/02W-29R01 M	46.0	10-16-63	13.7	32.3	5109
		3-16-64	9.9	36.1	
5N/02W-30J01 M	65.0	7-08-63	20.3	44.7	5000
		8-12-63	20.4	44.6	
		9-16-63	23.0	42.0	
		10-21-63	23.6	41.4	
		11-18-63	23.5	41.5	
		12-20-63	23.4	41.6	
		1-13-64	23.9	41.1	
		2-24-64	23.0	42.0	

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
SUISUN-FAIRFIELD VALLEY			2-03.00		
5N/02W-30J01 M	65.0	3-16-64	23.3	41.7	5000
CONT.		4-13-64	23.2	41.8	
		5-11-64	20.2	44.8	
		6-15-64	19.5	45.5	
5N/03W-26F02 M	111.0	10-17-63	¤		5109
		3-18-64	¤		
YGNACIO VALLEY			2-06.00		
1N/01W-07K01 M	83.0	7-18-63	7.2	75.8	5050
		8-24-63	10.2	72.8	
		9-23-63	10.8	72.2	
		10-21-63	10.1	72.9	
		11-19-63	9.5	73.5	
		12-17-63	9.2	73.8	
		1-20-64	9.0	74.0	
		2-17-64	10.8	72.2	
		3-17-64	9.9	73.1	
		4-20-64	10.5	72.5	
		5-18-64	9.7	73.3	
		6-19-64	¤		
1N/02W-11N01 M	63.0	9-23-63	15.2	47.8	5050
		3-17-64	12.9	50.1	
2N/02W-27R01 M	15.0	7-18-63	6.2	8.8	5050
		8-24-63	4.4	10.6	
		9-23-63	4.3	10.7	
		10-21-63	3.5	11.5	
		11-19-63	2.8	12.2	
		12-17-63	2.9	12.1	
		1-20-64	2.5	12.5	
		2-17-64	2.3	12.7	
		3-17-64	2.6	12.4	
		4-20-64	2.8	12.2	
		5-18-64	4.4	10.6	
		6-19-64	5.3	9.7	
2N/02W-36E01 M	48.0	3-17-64	16.0	32.0	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD. SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
SANTA CLARA VALLEY			2-09.00		
SOUTH ALAMEDA COUNTY UPR AQUIFER			2-09.01		
3S/02W-08R05 M	64.0	9-00-63	33.0	31.0	5100
		4-00-64	34.0	30.0	
3S/03W-24Q02 M	8.0	9-00-63	8.5	- 0.5	5100
		4-00-64	7.0	1.0	
4S/01W-18G01 M	41.0	7-19-63	82.7	- 41.7	5401
		8-23-63	85.4	- 44.4	
		9-00-63	¤		
		10-25-63	84.3	- 43.3	
		11-22-63	¤		
		12-20-63	81.3	- 40.3	
		1-24-64	78.3	- 37.3	
		2-28-64	74.3	- 33.3	
		3-27-64	73.6	- 32.6	
		4-17-64	74.3	- 33.3	
		5-15-64	78.5	- 37.5	
		6-12-64	83.6	- 42.6	
4S/01W-22P05 M	80.0	9-00-63	48.2	31.8	5100
		4-00-64	48.2	31.8	
4S/01W-29C04 M	55.0	9-20-63	92.0	- 37.0	5401
		3-20-64	83.6	- 28.6	
4S/02W-24Q02 M	33.4	9-00-63	66.7	- 33.3	5100
		4-00-64	¤		
5S/01W-04F01 M	42.0	7-19-63	72.1	- 30.1	5401
		8-23-63	69.9	- 27.9	
		9-20-63	72.1	- 30.1	
		10-18-63	72.2	- 30.2	
		11-15-63	72.0	- 30.0	
		12-20-63	72.2	- 30.2	
		1-24-64	71.1	- 29.1	
		2-21-64	70.9	- 28.9	
		3-20-64	70.6	- 28.6	
		4-24-64	70.6	- 28.6	
		5-22-64	70.3	- 28.3	
		6-19-64	70.8	- 28.8	

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD. SUR TO WATER SUR. IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
SOUTH ALAMEDA COUNTY UPR AQUIFER 2-09.01					
5S/01W-09Q01 M CONT.	19.5	4-00-64	¤		5100
SOUTH ALAMEDA COUNTY LWR AQUIFER 2-09.01					
2S/03W-36R01 M	45.0	9-00-63	172.0*	- 127.0	5100
		4-00-64	163.5*	- 118.5	
3S/02W-19A02 M	30.0	7-08-63	20.9	9.1	5050
		8-24-63	23.8	6.2	
		9-24-63	25.2	4.8	
		10-21-63	25.0	5.0	
		11-19-63	22.8	7.2	
		12-17-63	21.8	8.2	
		1-22-64	21.1	8.9	
		2-18-64	20.2	9.8	
		3-17-64	20.1	9.9	
		4-21-64	20.0	10.0	
		5-18-64	20.6	9.4	
		6-19-64	21.4	8.6	
3S/03W-24J01 M	11.0	9-00-63	77.6	- 66.6	5100
		4-00-64	76.3	- 65.3	
4S/02W-02Q01 M	26.0	9-00-63	¤		5100
		4-07-64	89.7	- 63.7	
4S/02W-35R02 M	15.0	7-19-63	82.5	- 67.5	5401
		8-23-63	81.8	- 66.8	
		9-20-63	79.4	- 64.4	
		10-00-63	¤		
		11-00-63	¤		
		12-00-63	¤		
		1-00-64	¤		
		2-00-64	¤		
		3-00-64	¤		
		4-00-64	¤		
		5-00-64	¤		
		6-00-64	¤		
4S/02W-36K01 M	24.0	7-19-63	93.2	- 69.2	5401
		8-23-63	94.2	- 70.2	
		9-20-63	92.1	- 68.1	
		10-18-63	87.4	- 63.4	
		11-15-63	81.1	- 57.1	
		12-20-63	72.4	- 48.4	
		1-24-64	64.9	- 40.9	
		2-21-64	66.4	- 42.4	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRD. SUR TO WATER SUR IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
SOUTH ALAMEDA COUNTY LWR AQUIFER 2-09.01					
4S/02W-36K01 M CONT.	24.0	3-20-64	71.5	- 47.5	5401
		4-17-64	74.2	- 50.2	
		5-22-64	84.5	- 60.5	
		6-19-64	83.5	- 59.5	
5S/01W-09M01 M	15.0	9-00-63	89.3	- 74.3	5100
		4-00-64	¤		
NORTH SANTA CLARA COUNTY 2-09.02					
6S/01E-07E01 M	15.8	7-24-63	127.3*	- 111.5	2400
		8-22-63	121.5	- 105.7	
		9-23-63	124.3	- 108.5	
		10-22-63	109.4	- 93.6	
		11-21-63	104.1	- 88.3	
		12-19-63	97.3	- 81.5	
		1-22-64	79.5	- 63.7	
		2-21-64	80.9	- 65.1	
		3-19-64	84.1	- 68.3	
		4-17-64	106.8	- 91.0	
		5-21-64	112.8	- 97.0	
		6-18-64	117.2	- 101.4	
6S/01E-21R01 M	138.0	7-23-63	232.8	- 94.8	2400
		8-21-63	238.2	- 100.2	
		9-20-63	¤		
		10-21-63	234.6	- 96.6	
		11-20-63	225.3	- 87.3	
		12-17-63	219.1	- 81.1	
		1-17-64	213.6	- 75.6	
		2-20-64	209.5	- 71.5	
		3-18-64	¤		
		4-16-64	221.9	- 83.9	
		5-28-64	239.4	- 101.4	
		6-17-64	¤		
6S/01E-23P02 M	240.5	7-22-63	154.7*	85.8	2400
		8-19-63	157.7	82.8	
		9-19-63	158.8	81.7	
		10-18-63	161.6	78.9	
		11-18-63	161.8	78.7	
		12-17-63	163.3	77.2	
		1-17-64	164.8	75.7	
		2-19-64	165.4	75.1	
		3-18-64	164.2	76.3	

TABLE C-3
GROUND WATER LEVELS AT WELLS

SAN FRANCISCO BAY REGION

NORTH SANTA CLARA COUNTY 2-09.02

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
6S/01E-23P02 M	240.5	4-16-64	169.2	71.3	2400
CONT.		5-19-64	175.9	64.6	
		6-16-64	168.3	72.2	
6S/01E-30M01 M	43.0	7-25-63	153.1	- 110.1	2400
		8-22-63	143.4	- 100.4	
		9-23-63	139.7	- 96.7	
		10-23-63	114.7	- 71.7	
		11-21-63	105.1	- 62.1	
		12-19-63	98.4	- 55.4	
		1-23-64	95.5	- 52.5	
		2-24-64	90.0*	- 47.0	
		3-26-64	93.0*	- 50.0	
		4-20-64	120.0*	- 77.0	
		5-21-64	128.7	- 85.7	
		6-19-64	133.8	- 90.8	
6S/01W-23E01 M	21.0	7-15-63	162.3	- 141.3	5000
		8-12-63	131.2	- 110.2	
		9-10-63	158.8	- 137.8	
		10-08-63	130.2	- 109.2	
		11-06-63	104.3	- 83.3	
		12-06-63	93.8	- 72.8	
		1-08-64	□		
		2-07-64	83.3	- 62.3	
		3-00-64	□		
		4-29-64	116.3	- 95.3	
		5-00-64	□		
		6-22-64	131.0	- 110.0	
6S/02W-16R01 M	48.7	7-30-63	142.0	- 94.0	2400
		8-26-63	139.0*	- 91.0	
		9-26-63	135.4	- 87.4	
		10-29-63	130.6	- 82.6	
		11-26-63	125.5	- 77.5	
		12-26-63	122.0	- 74.0	
		1-27-64	120.8	- 72.8	
		2-26-64	119.4	- 71.4	
		3-30-64	120.3	- 72.3	
		4-24-64	133.9	- 85.9	
		5-25-64	132.8	- 84.8	
		6-25-64	134.1	- 86.1	
6S/02W-25C01 M	73.0	7-26-63	156.9	- 83.9	2400
		8-23-63	153.7	- 80.7	

SAN FRANCISCO BAY REGION

NORTH SANTA CLARA COUNTY 2-09.02

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
6S/02W-25C01 M	73.0	9-25-63	149.8	- 76.8	2400
CONT.		10-25-63	141.4	- 68.4	
		11-23-63	139.2	- 66.2	
		12-23-63	127.8	- 54.8	
		1-24-64	128.3	- 55.3	
		2-25-64	127.5	- 54.5	
		3-27-64	132.0*	- 59.0	
		4-29-64	144.5*	- 71.5	
		5-25-64	155.8*	- 82.8	
		6-24-64	149.7	- 76.7	
6S/02W-35C01 M	140.1	7-29-63	□		2400
		8-26-63	255.8	- 115.7	
		9-26-63	262.7*	- 122.6	
		10-28-63	260.4	- 120.3	
		11-23-63	246.7*	- 106.6	
		12-26-63	237.4*	- 97.3	
		1-27-64	231.2*	- 91.1	
		2-26-64	232.9*	- 92.8	
		3-30-64	241.7*	- 101.6	
		4-23-64	250.9*	- 110.8	
		5-25-64	262.8*	- 122.7	
		6-25-64	271.9*	- 131.8	
7S/01E-01K01 M	179.0	7-19-63	199.5	- 20.5	2400
		8-19-63	198.7	- 19.7	
		9-19-63	201.8	- 22.8	
		10-18-63	200.6	- 21.6	
		11-18-63	198.8	- 19.8	
		12-16-63	197.4	- 18.4	
		1-15-64	196.1	- 17.1	
		2-18-64	195.2	- 16.2	
		3-17-64	195.4	- 16.4	
		4-15-64	195.0	- 16.0	
		5-19-64	195.4	- 16.4	
		6-15-64	196.9	- 17.9	
7S/01E-08L01 M	88.0	7-24-63	164.0	- 76.0	2400
		8-27-63	164.7	- 76.7	
		9-26-63	153.3	- 65.3	
		10-28-63	152.9	- 64.9	
		11-27-63	149.2	- 61.2	
		12-27-63	139.5	- 51.5	
		1-29-64	132.9	- 44.9	
		2-27-64	128.2	- 40.2	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
NORTH SANTA CLARA COUNTY		2-09.02			
7S/01E-08L01 M	88.0	3-27-64	127.9	- 39.9	2400
CONT.		4-24-64	141.4	- 53.4	
		5-27-64	149.0	- 61.0	
		6-29-64	156.2	- 68.2	
7S/01E-09D02 M	95.9	7-01-63	177.0	- 81.1	2400
		8-01-63	178.5	- 82.6	
		9-01-63	189.5	- 93.6	
		10-01-63	186.5	- 90.6	
		11-01-63	169.5	- 73.6	
		12-01-63	159.5	- 63.6	
		1-01-64	151.5	- 55.6	
		2-01-64	147.5	- 51.6	
		3-01-64	141.5	- 45.6	
		4-01-64	141.5	- 45.6	
		5-01-64	162.5	- 66.6	
		6-01-64	161.5	- 65.6	
7S/01E-16C05 M	105.0	7-15-63	226.6	- 121.6	5000
		8-12-63	226.2	- 121.2	
		9-10-63	229.9	- 124.9	
		10-08-63	231.4	- 126.4	
		11-05-63	193.9	- 88.9	
		12-06-63	187.9	- 82.9	
		1-08-64	188.9	- 83.9	
		2-07-64	169.7	- 64.7	
		3-06-64	174.0	- 69.0	
		4-02-64	160.5	- 55.5	
		5-00-64	¤		
		6-22-64	213.9	- 108.9	
7S/01E-31A02 M	151.6	7-02-63	162.4	- 10.8	2400
		8-05-63	163.6	- 12.0	
		9-06-63	170.3	- 18.7	
		10-02-63	174.6*	- 23.0	
		11-04-63	169.8	- 18.2	
		12-03-63	153.8	- 2.2	
		1-02-64	157.7*	- 6.1	
		2-03-64	152.9	- 1.3	
		3-03-64	137.8*	13.8	
		4-03-64	145.0*	6.6	
		5-05-64	141.7	9.9	
		6-02-64	153.8	- 2.2	
7S/02E-07P01 M	130.0	7-19-63	144.3	- 14.3	2400

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
NORTH SANTA CLARA COUNTY		2-09.02			
7S/02E-07P01 M	130.0	8-19-63	142.4	- 12.4	2400
CONT.		9-19-63	143.0	- 13.0	
		10-18-63	140.3	- 10.3	
		11-18-63	138.7	- 8.7	
		12-16-63	137.4	- 7.4	
		1-15-64	136.9	- 6.9	
		2-18-64	136.4	- 6.4	
		3-17-64	136.2	- 6.2	
		4-15-64	138.1	- 8.1	
		5-19-64	134.3	- 4.3	
		6-15-64	136.1	- 6.1	
7S/02E-17H01 M	349.0	7-18-63	100.8	248.2	2400
		8-15-63	98.7	250.3	
		9-19-63	97.4	251.6	
		10-16-63	96.6	252.4	
		11-18-63	95.7	253.3	
		12-16-63	96.4	252.6	
		1-15-64	98.3	250.7	
		2-18-64	95.4	253.6	
		3-16-64	96.3	252.7	
		4-15-64	97.2	251.8	
		5-18-64	96.5	252.5	
		6-15-64	97.2	251.8	
7S/02E-33C01 M	462.0	7-18-63	20.2	441.8	2400
		8-15-63	19.5	442.5	
		9-18-63	21.4	440.6	
		10-16-63	20.9	441.1	
		11-15-63	21.3	440.7	
		12-13-63	20.7	441.3	
		1-14-64	21.1	440.9	
		2-18-64	20.8	441.2	
		3-16-64	21.2	440.8	
		4-14-64	20.8	441.2	
		5-18-64	20.6	441.4	
		6-12-64	20.2	441.8	
7S/01W-35C01 M	202.0	7-01-63	198.0	4.0	2400
		8-01-63	196.0	6.0	
		9-01-63	194.0	8.0	
		10-01-63	200.0	2.0	
		11-01-63	194.0	8.0	
		12-01-63	193.0	9.0	
		1-02-64	193.0*	9.0	

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
NORTH SANTA CLARA COUNTY			2-09.02		
7S/01W-35C01 M	202.0	2-03-64	186.0	16.0	2400
CONT.		3-02-64	189.0	13.0	
		4-02-64	195.0	7.0	
		5-01-64	216.0	- 14.0	
		6-01-64	230.0	- 28.0	
7S/02W-03Q01 M	216.7	7-31-63	363.0	- 146.3	2400
		8-02-63	363.0	- 146.3	
		9-01-63	368.0	- 151.3	
		10-01-63	374.0	- 157.3	
		10-30-63	359.0	- 142.3	
		12-01-63	343.0	- 126.3	
		1-02-64	335.0	- 118.3	
		2-01-64	¤		
		3-02-64	333.0	- 116.3	
		4-02-64	336.0*	- 119.3	
		5-03-64	343.0	- 126.3	
		6-01-64	350.0	- 133.3	
7S/02W-04B01 M	218.0	7-30-63	193.3	24.7	2400
		8-28-63	194.9	23.1	
		9-26-63	193.1	24.9	
		10-29-63	194.7*	23.3	
		11-26-63	194.2*	23.8	
		12-27-63	193.9*	24.1	
		1-28-64	193.7*	24.3	
		2-26-64	193.9	24.1	
		3-30-64	193.0*	25.0	
		4-24-64	194.2	23.8	
		5-26-64	197.3	20.7	
		6-26-64	196.7	21.3	
7S/02W-22A01 M	340.0	7-30-63	¤		2400
		8-28-63	15.9	324.1	
		9-27-63	¤		
		10-29-63	17.5	322.5	
		11-26-63	19.0*	321.0	
		12-27-63	20.0	320.0	
		1-28-64	18.0	322.0	
		2-26-64	23.0*	317.0	
		3-31-64	¤		
		4-27-64	29.9	310.1	
		5-26-64	23.3*	316.7	
		6-26-64	22.5	317.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
NORTH SANTA CLARA COUNTY			2-09.02		
8S/01E-07H02 M	207.0	8-06-63	70.2	136.8	2400
CONT.		9-10-63	70.1	136.9	
		10-16-63	73.4	133.6	
		11-05-63	73.3	133.7	
		12-04-63	74.8	132.2	
		1-03-64	76.6	130.4	
		2-04-64	76.4	130.6	
		3-04-64	76.0	131.0	
		4-03-64	79.1	127.9	
		5-06-64	83.9	123.1	
		6-29-64	93.7	113.3	
8S/01E-13H01 M	184.6	7-09-63	31.9	152.7	2400
		8-07-63	30.1	154.5	
		9-12-63	24.5	160.1	
		10-04-63	25.6	159.0	
		11-07-63	23.7	160.9	
		12-05-63	19.9	164.7	
		1-07-64	18.8	165.8	
		2-06-64	15.1	169.5	
		3-09-64	20.5*	164.1	
		4-07-64	24.4	160.2	
		5-07-64	26.8	157.8	
		6-04-64	24.8	159.8	
8S/02E-20F03 M	209.0	7-10-63	31.8	177.2	2400
		8-08-63	28.4	180.6	
		9-12-63	24.5	184.5	
		10-07-63	23.0	186.0	
		11-07-63	22.3	186.7	
		12-06-63	21.1	187.9	
		1-07-64	22.1	186.9	
		2-07-64	21.3	187.7	
		3-09-64	23.8	185.2	
		4-07-64	25.7	183.3	
		5-07-64	24.1	184.9	
		6-04-64	24.1	184.9	
8S/02E-22D01 M	239.7	7-10-63	12.1	227.6	2400
		8-08-63	10.0	229.7	
		9-12-63	10.2	229.5	
		10-07-63	9.9	229.8	
		11-07-63	9.7	230.0	
		12-06-63	10.4	229.3	
		1-08-64	11.7	228.0	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
NORTH SANTA CLARA COUNTY			2-09.02		
8S/02E-22D01 M	239.7	2-07-64	13.3	226.4	2400
CONT.		3-09-64	14.1	225.6	
		4-07-64	12.6	227.1	
		5-08-64	11.7	228.0	
		6-04-64	11.2	228.5	
8S/01W-15B01 M	331.2	7-02-63	31.5	299.7	2400
		8-05-63	30.7	300.5	
		9-10-63	32.4	298.8	
		10-02-63	34.1	297.1	
		11-04-63	33.4	297.8	
		12-03-63	33.4	297.8	
		1-03-64	▫		
		2-04-64	33.9	297.3	
		3-03-64	▫		
		4-03-64	35.3	295.9	
		5-27-64	34.7	296.5	
		6-02-64	34.6	296.6	
9S/02E-01J01 M	314.6	7-15-63	29.3	285.3	2400
		8-12-63	28.0	286.6	
		9-16-63	28.1	286.5	
		10-11-63	30.4	284.2	
		11-08-63	31.7	282.9	
		12-10-63	34.3	280.3	
		1-10-64	32.1	282.5	
		2-08-64	33.6	281.0	
		3-11-64	35.1	279.5	
		4-10-64	36.0	278.6	
		5-11-64	36.9	277.7	
		6-29-64	38.1	276.5	
9S/02E-01M01 M	287.6	7-11-63	20.8	266.8	2400
		8-08-63	20.5	267.1	
		9-13-63	21.9	265.7	
		10-07-63	23.7*	263.9	
		11-08-63	23.9	263.7	
		12-06-63	23.3	264.3	
		1-08-64	23.3	264.3	
		2-08-64	25.8	261.8	
		3-09-64	23.2	264.4	
		4-08-64	23.2	264.4	
		5-08-64	26.1	261.5	
		6-05-64	28.1	259.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN FRANCISCO BAY REGION					
LIVERMORE VALLEY			2-10.00		
2S/02E-25N01 M	555.3	9-00-63	10.7	544.6	5100
		4-00-64	10.2	545.1	
2S/01W-26C01 M	416.9	9-00-63	93.2	323.7	5100
		4-00-64	67.2	349.7	
3S/01E-11H01 M	372.9	9-00-63	137.2	235.7	5100
		4-00-64	123.0	249.9	
3S/02E-02R01 M	562.2	9-00-63	▫		5100
		4-00-64	▫		
3S/02E-10H01 M	551.0	9-00-63	▫		5100
		4-00-64	99.5	451.5	
HALF MOON BAY TERRACE			2-22.00		
5S/05W-20L01 M	73.0	7-19-63	13.5	59.5	5050
		8-23-63	14.3	58.7	
		9-27-63	15.7	57.3	
		10-22-63	14.9	58.1	
		11-22-63	13.8	59.2	
		12-19-63	13.8	59.2	
		1-23-64	12.1	60.9	
		2-20-64	18.3	54.7	
		3-24-64	15.3	57.7	
5S/05W-29N01 M	46.0	3-24-64	31.1	14.9	5050
6S/05W-08B01 M	108.0	4-23-64	53.9	54.1	5050
SAN GREGORIO VALLEY			2-24.00		
7S/05W-13E01 M	80.0	7-19-63	▫		5050
		8-23-63	▫		
		9-27-63	12.0	68.0	
		10-22-63	11.9	68.1	
		11-22-63	11.4	68.6	
		12-19-63	11.5	68.5	
		1-23-64	10.8	69.2	
		2-20-64	11.2	68.8	
		3-19-64	11.3	68.7	
		4-23-64	11.5	68.5	
		5-21-64	11.8	68.2	
		6-19-64	12.1	67.9	

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
		SAN FRANCISCO BAY REGION			
SAN GREGORIO VALLEY			2-24.00		
7S/05W-15C01 M	80.0	3-24-64	12.4	67.6	5050
7S/05W-15E01 M	75.2	3-24-64	6.0	69.2	5050
7S/05W-15E02 M	30.0	7-19-63	□		5050
		8-23-63	14.4	15.6	
		9-27-63	14.4	15.6	
		10-22-63	14.5	15.5	
		11-22-63	13.6	16.4	
		12-19-63	13.8	16.2	
		1-23-64	12.7	17.3	
		2-20-64	13.3	16.7	
		3-19-64	13.6	16.4	
		4-23-64	13.7	16.3	
		5-21-64	14.3	15.7	
		6-19-64	13.8	16.2	
7S/05W-15H02 M	40.0	3-24-64	16.2	23.8	5050
PESCADERO VALLEY			2-26.00		
8S/05W-09H01 M	20.0	7-19-63	5.0	15.0	5050
		8-23-63	□		
		9-27-63	4.9	15.1	
		10-22-63	4.8	15.2	
		11-22-63	4.2	15.8	
		12-19-63	4.3	15.7	
		1-23-64	3.9	16.1	
		2-20-64	4.4	15.6	
		3-19-64	4.7	15.3	
		4-23-64	4.8	15.2	
		5-21-64	4.9	15.1	
		6-19-64	5.0	15.0	
8S/05W-11M01 M	45.0	3-24-64	10.4	34.6	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRDUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL COASTAL REGION					
SOQUEL VALLEY			3-01.00		
11S/01W-09L01 M	124.2	7-19-63	67.1	57.1	5050
		8-23-63	57.3	66.9	
		9-27-63	58.3	65.9	
		10-22-63	57.1	67.1	
		11-21-63	56.9	67.3	
		12-19-63	57.1	67.1	
		1-23-64	57.0	67.2	
		2-19-64	59.3	64.9	
		3-19-64	58.4	65.8	
		4-23-64	57.6	66.6	
		5-20-64	57.9	66.3	
		6-19-64	57.5	66.7	
11S/01W-15H01 M	91.7	11-21-63	59.9	31.8	5050
		12-19-63	60.6	31.1	
		1-23-64	60.3	31.4	
		2-19-64	59.9	31.8	
		3-19-64	58.8	32.9	
		4-23-64	58.4	33.3	
		5-20-64	58.9	32.8	
		6-19-64	58.0	33.7	
PAJARO VALLEY			3-02.00		
12S/01E-24G01 M	9.4	7-18-63	¤		5050
		8-23-63	18.2*	- 8.8	
		9-25-63	22.5*	- 13.1	
		10-22-63	8.5*	0.9	
		11-21-63	6.6*	2.8	
		12-19-63	5.6*	3.8	
		1-22-64	5.5*	3.9	
		2-19-64	6.0*	3.4	
		3-17-64	9.4*	0.0	
		4-22-64	16.1*	- 6.7	
		5-20-64	¤		
		6-18-64	27.9*	- 18.5	
12S/02E-16J01 M	20.5	7-18-63	¤		5050
		8-23-63	¤		
		9-25-63	22.6*	- 2.1	
		10-22-63	16.3*	4.2	
		11-21-63	14.5*	6.0	
		12-19-63	12.6*	7.9	
		1-22-64	12.4*	8.1	
		2-19-64	12.0*	8.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRDUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL COASTAL REGION					
PAJARO VALLEY			3-02.00		
12S/02E-16J01 M	20.5	3-17-64	13.8*	6.7	5050
CONT.		4-22-64	20.7*	- 0.2	
		5-20-64	22.2	- 1.7	
		6-18-64	¤		
12S/02E-31K01 M	30.0	11-21-63	28.4	1.6	5050
		1-10-64	26.5	3.5	5100
		3-19-64	26.0	4.0	5050
13S/02E-05B01 M	136.0	7-18-63	¤		5050
		8-23-63	¤		
		9-25-63	139.3	- 3.3	
		10-22-63	139.1	- 3.1	
		11-21-63	137.8	- 1.8	
		12-19-63	137.6	- 1.6	
		1-22-64	137.3	- 1.3	
		2-19-64	135.3	0.7	
		3-17-64	136.7	- 0.7	
		4-22-64	135.4	0.6	
		5-20-64	136.7	- 0.7	
		6-18-64	137.5	- 1.5	
GILROY-HOLLISTER VALLEY			3-03.00		
SOUTH SANTA CLARA COUNTY			3-03.01		
9S/03E-27C02 M	347.0	7-11-63	86.9	260.1	2400
		8-09-63	88.4*	258.6	
		9-16-63	79.6	267.4	
		10-09-63	87.4	259.6	
		11-12-63	80.1	266.9	
		12-09-63	79.7	267.3	
		1-09-64	73.6	273.4	
		2-10-64	70.2	276.8	
		3-10-64	68.9	278.1	
		4-09-64	69.3	277.7	
		5-11-64	73.3	273.7	
		6-09-64	80.7	266.3	
9S/03E-29B01 M	397.6	3-18-64	13.0	384.6	5050
10S/03E-34L01 M	249.3	7-18-63	7.9	241.4	5050
		8-22-63	7.8	241.5	
		9-24-63	8.2	241.1	
		10-23-63	8.4	240.9	

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL COASTAL REGION					
SOUTH SANTA CLARA COUNTY			3-03.01		
10S/03E-34L01 M	249.3	11-20-63	8.1	241.2	5050
CONT.		12-18-63	9.3	240.0	
		1-22-64	8.2	241.1	
		2-18-64	8.2	241.1	
		3-19-64	8.1	241.2	
		4-01-64	8.1	241.2	
		5-00-64	#		
10S/04E-18G02 M	259.5	7-18-63	63.4	196.1	5050
		8-22-63	55.9	203.6	
		9-24-63	□		
		10-23-63	53.7	205.8	
		11-20-63	48.4	211.1	
		12-18-63	48.3	211.2	
		1-22-64	50.8	208.7	
		2-18-64	50.6	208.9	
		3-18-64	52.4	207.1	
		4-21-64	59.6	199.9	
		5-19-64	68.7	190.8	
		6-17-64	72.9	186.6	
10S/04E-35E01 M	248.0	3-19-64	86.7	161.3	5050
11S/03E-01B01 M	227.0	4-00-64	□		5400
SAN BENITO COUNTY			3-03.02		
11S/05E-13D01 M	255.7	7-18-63	22.8	232.9	5050
		8-22-63	22.9	232.8	
		9-24-63	24.1	231.6	
		10-23-63	21.5	234.2	
		11-20-63	21.1	234.6	
		12-18-63	21.6	234.1	
		1-22-64	22.5	233.2	
		2-18-64	23.2	232.5	
		2-20-64	28.0	227.7	
		4-21-64	□		
		5-19-64	33.0	222.7	
		6-17-64	□		
12S/04E-20C01 M	152.9	4-00-64	36.3	116.6	5101
12S/05E-33A01 M	280.0	7-00-63	□		5050
		8-00-63	□		

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					
SAN BENITO COUNTY			3-03.02		
12S/05E-33A01 M	280.0	10-24-63	90.1	189.9	5050
CONT.		11-20-63	89.8	190.2	
		12-18-63	92.4	187.6	
		1-22-64	91.9	188.1	
		2-19-64	88.5	191.5	
		3-19-64	90.2	189.8	
		4-22-64	□		
		5-19-64	98.8	181.2	
		6-18-64	100.0	180.0	
13S/05E-11Q01 M	325.5	4-00-64	54.6	270.9	5101
SALINAS VALLEY			3-04.00		
PRESSURE AREA 180 FOOT AQUIFER			3-04.01		
14S/02E-03C01 M	10.6	12-05-63	12.6	- 2.0	2100
		3-26-64	14.6	- 4.0	
14S/02E-15L01 M	23.0	12-09-63	19.7	3.3	2100
		3-25-64	□		
15S/02E-01Q01 M	42.0	7-17-63	□		2100
		8-16-63	□		
		9-18-63	□		
		10-15-63	44.6	- 2.6	
		11-14-63	□		
		12-09-63	33.5	8.5	
		12-09-63	33.5	8.5	
		1-21-64	□		
		2-17-64	□		
		4-08-64	35.8	6.2	
		5-15-64	□		
		6-17-64	□		
15S/03E-16M01 M	58.0	12-11-63	46.2	11.8	2100
		4-08-64	46.8	11.2	
15S/04E-33A01 M	125.0	12-30-63	84.9	40.1	2100
		4-07-64	87.7	37.3	
16S/04E-11D01 M	110.0	12-31-63	50.2	59.8	2100
		4-08-64	49.7	60.3	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GRDUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL COASTAL REGION					
PRESSURE AREA 400 FOOT AQUIFER			3-04.01		
13S/02E-31Q01 M	11.0	12-03-63	8.5	2.5	2100
		3-19-64	¤		
14S/03E-18J01 M	69.0	7-17-63	100.7	- 31.7	2100
		8-16-63	¤		
		9-19-63	99.4	- 30.4	
		10-16-63	79.6	- 10.6	
		11-14-63	71.2	- 2.2	
		12-16-63	66.7	2.3	
		1-21-64	64.7	4.3	
		2-17-64	64.3	4.7	
		3-26-64	72.3	- 3.3	
		4-00-64	80.1	- 11.1	
		5-15-64	82.3	- 13.3	
		6-17-64	94.3	- 25.3	
EAST SIDE AREA			3-04.02		
16S/05E-17R01 M	181.0	1-02-64	109.7	71.3	2100
		4-07-64	¤		
ARROYO SECO CONE			3-04.04		
18S/06E-15M01 M	277.0	12-18-63	90.0	187.0	2100
		3-30-64	¤		
19S/06E-11C01 M	373.0	7-16-63	160.5	212.5	2100
		8-15-63	173.1	199.9	
		9-17-63	173.8	199.2	
		10-14-63	168.1	204.9	
		11-15-63	170.4*	202.6	
		12-13-63	158.9	214.1	
		1-20-64	161.0	212.0	
		2-19-64	155.5	217.5	
		3-25-64	158.3	214.7	
		4-00-64	¤		
		5-14-64	167.0	206.0	
		6-16-64	175.3	197.7	
UPPER VALLEY AREA			3-04.05		
19S/07E-10P01 M	315.0	7-15-63	¤		2100
		8-15-63	¤		
		9-18-63	86.5	228.5	
		10-14-63	83.6	231.4	

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					
UPPER VALLEY AREA			3-04.05		
19S/07E-10P01 M	315.0	11-15-63	82.3	232.7	2100
CONT.		12-11-63	¤		
		1-20-64	83.6	231.4	
		2-18-64	¤		
		3-25-64	84.9	230.1	
		4-00-64	¤		
		5-13-64	¤		
		6-16-64	¤		
20S/08E-05R01 M	337.0	9-18-63	69.6	267.4	2100
		10-14-63	¤		
		11-15-63	66.5	270.5	
		12-14-63	66.3	270.7	
		3-20-64	¤		
21S/09E-06K01 M	344.0	12-06-63	12.5	331.5	2100
		3-19-64	¤		
21S/10E-32N01 M	400.0	12-06-63	20.8	379.2	2100
		3-18-64	¤		
22S/10E-16K01 M	472.0	12-05-63	70.0	402.0	2100
		3-18-64	¤		
PASO ROBLES			3-04.06		
24S/10E-11C01 M	618.0	3-30-64	50.7	567.3	5100
24S/11E-25N01 M	603.0	3-30-64	38.1	564.9	5100
24S/11E-33R01 M	564.0	3-30-64	35.3	528.7	5100
24S/11E-35J01 M	616.8	3-30-64	62.2	554.6	5100
24S/12E-17N01 M	769.5	3-30-64	16.8	752.7	5100
24S/15E-33C01 M	1225.0	3-31-64	24.0	1201.0	5100
25S/11E-35G01 M	879.8	3-31-64	30.9	848.9	5100
25S/12E-17J01 M	639.0	3-31-64	63.2	575.8	5100
25S/12E-17R01 M	639.0	3-30-64	57.1	581.9	5100
25S/12E-26K01 M	747.5	3-31-64	115.6	631.9	5100

TABLE C-3
GROUND WATER LEVELS AT WELLS

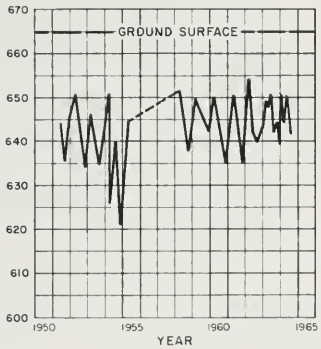
STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL COASTAL REGION					
PASO ROBLES			3-04.06		
25S/13E-11E01 M	1184.0	3-31-64	60.4	1123.6	5100
25S/16E-17L01 M	1164.5	3-31-64	62.5	1102.0	5100
25S/16E-30M01 M	1218.0	3-31-64	71.9	1146.1	5100
26S/12E-04N01 M	674.5	3-30-64	45.0	629.5	5100
26S/12E-26E01 M	839.0	4-03-64	194.4	644.6	5100
26S/12E-35M01 M	818.0	4-03-64	146.4	671.6	5100
26S/13E-10D01 M	799.0	4-03-64	16.6	782.4	5100
26S/13E-34B01 M	1005.0	4-03-64	161.8	843.2	5100
26S/14E-16L01 M	1018.0	4-03-64	73.2	944.8	5100
26S/14E-35D01 M	1134.5	4-02-64	119.1	1015.4	5100
26S/15E-02B01 M	1114.0	3-31-64	29.6	1084.4	5100
26S/15E-28Q02 M	1111.4	4-02-64	83.0	1028.4	5100
26S/15E-29N01 M	1134.4	4-02-64	100.0	1034.4	5100
27S/12E-21N01 M	747.5	4-03-64	6.6	740.9	5100
27S/13E-24N01 M	1030.0	4-01-64	12.8	1017.2	5100
27S/13E-32B01 M	1103.5	4-01-64	51.7	1051.8	5100
27S/15E-10R02 M	1130.0	4-02-64	57.4	1072.6	5100
27S/15E-13A01 M	1153.5	4-02-64	21.0	1132.5	5100
27S/16E-21E02 M	1253.0	4-02-64	56.8	1196.2	5100
28S/12E-10G01 M	825.0	4-03-64	12.7	811.3	5100
28S/12E-10R02 M	805.0	3-29-64	10.1	794.9	5100
28S/12E-13N01 M	850.3	4-01-64	9.6	840.7	5100
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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					
PASO ROBLES			3-04.06		
28S/13E-04K01 M	1199.5	4-01-64	64.7	1134.8	5100
28S/13E-04K02 M	1195.0	4-01-64	78.8	1116.2	5100
28S/14E-07E01 M	1150.0	4-02-64	14.0	1136.0	5100
28S/16E-23M01 M	1439.0	4-02-64	38.0	1401.0	5100
29S/13E-05F03 M	915.6	3-30-64	16.6	899.0	5100
29S/13E-05K02 M	928.5	3-30-64	13.3	915.2	5100
29S/13E-06A01 M	920.0	3-30-64	52.3	867.7	5100
29S/13E-19H01 M	1002.5	3-30-64	5.9	996.6	5100
CARMEL VALLEY			3-07.00		
16S/01E-25B01 M	140.0	7-00-63	¤		5100
		8-16-63	15.9	124.1	
		9-17-63	16.2	123.8	
		10-15-63	16.0	124.0	
		11-18-63	15.9	124.1	
		12-08-63	15.6	124.4	
		1-22-64	15.4	124.6	
		2-19-64	15.2	124.8	
		3-16-64	15.5	124.5	
		4-13-64	15.4	124.6	
		5-18-64	15.5	124.5	
		6-17-64	15.9	124.1	
WEST SANTA CRUZ TERRACE			3-26.00		
11S/02W-22K01 M	30.0	11-13-63	79.3	- 49.3	5050
		3-18-64	66.6	- 36.6	

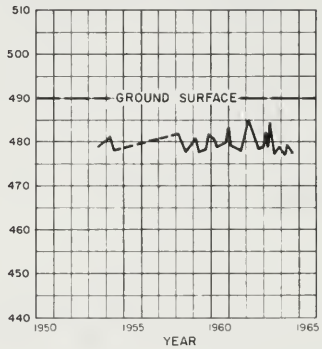
FIGURE C1

FLUCTUATION OF WATER LEVEL IN WELLS NORTH COASTAL REGION

UKIAH VALLEY (1-15.00)
MENDOCINO COUNTY
WELL 15N/12W-8L1, M.D.B.&M.
GROUND SURFACE ELEVATION 665'



SANEL VALLEY (1-16.00)
MENDOCINO COUNTY
WELL 13N/11W-18E1, M.D.B.&M.
GROUND SURFACE ELEVATION 490'



---- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE.

SANTA ROSA VALLEY, SONOMA COUNTY (1-18.00)
SANTA ROSA AREA (1-18.01)
WELL 6N/8W-13R1, M.D.B.&M.
GROUND SURFACE ELEVATION 115'

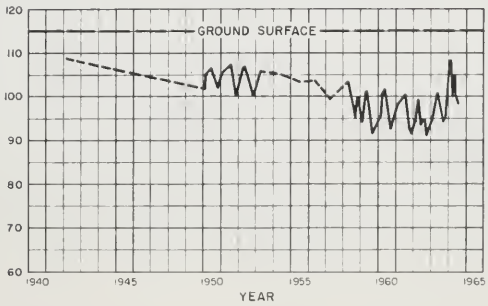


FIGURE C1

FLUCTUATION OF WATER LEVEL IN WELLS SAN FRANCISCO BAY REGION

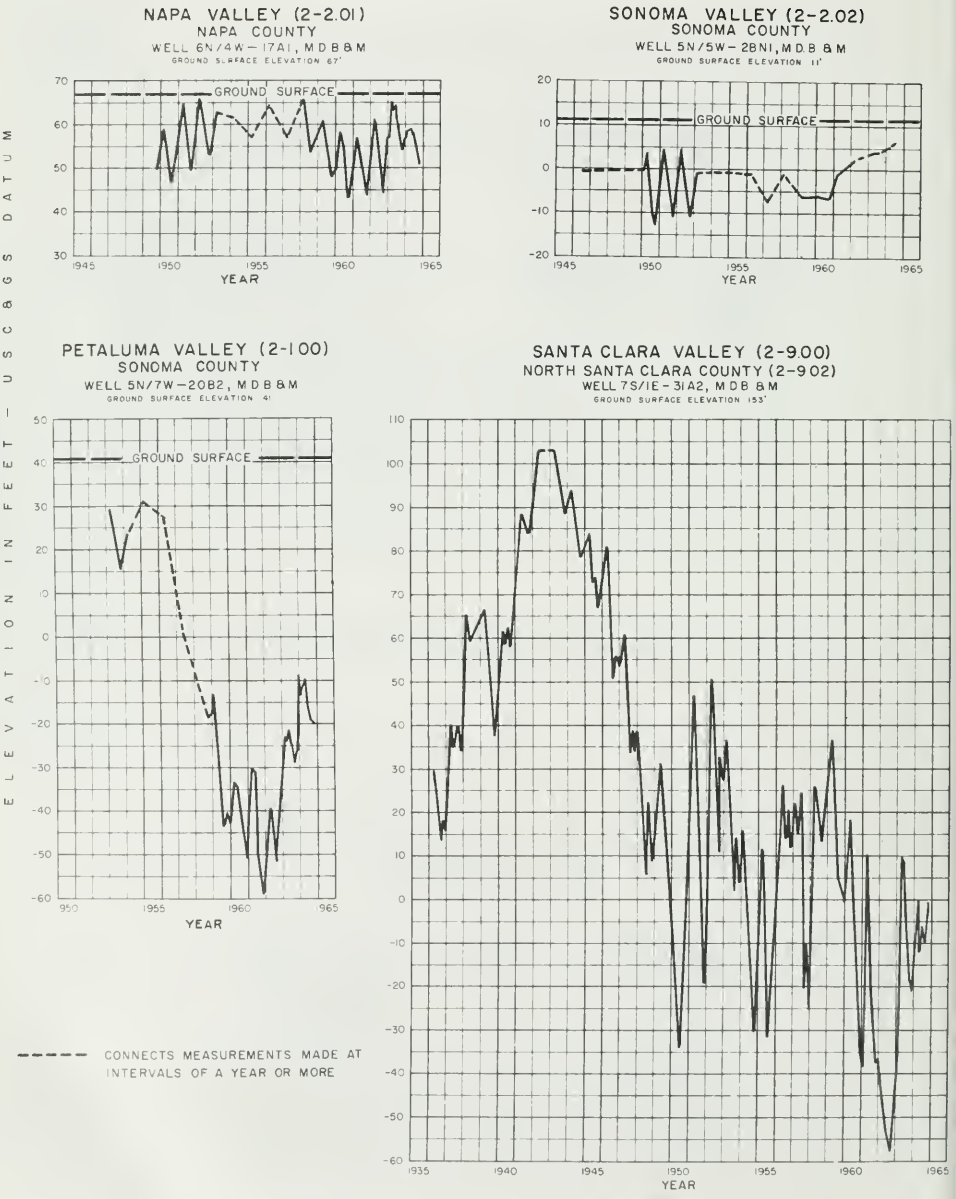
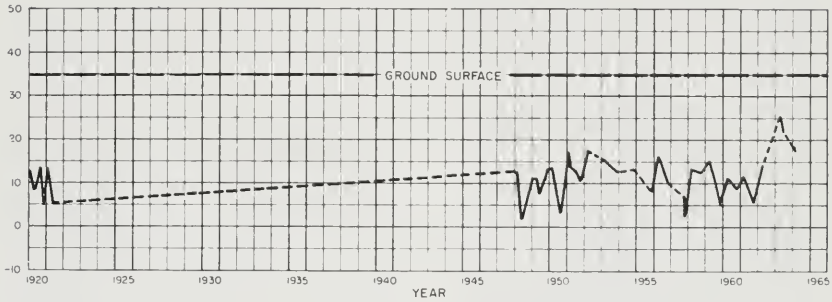


FIGURE C1

FLUCTUATION OF WATER LEVEL IN WELLS SAN FRANCISCO BAY REGION

SUISUN - FAIRFIELD VALLEY (2-3.00)
SOLANO COUNTY
WELL 4N/2W - 6A1, M D B & M
GROUND SURFACE ELEVATION 35'



----- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

SANTA CLARA VALLEY (2-9.00)
SOUTH ALAMEDA COUNTY (2-9.01) UPPER AQUIFER
WELL 4S/1W - 29C4, M D B & M
GROUND SURFACE ELEVATION 55'

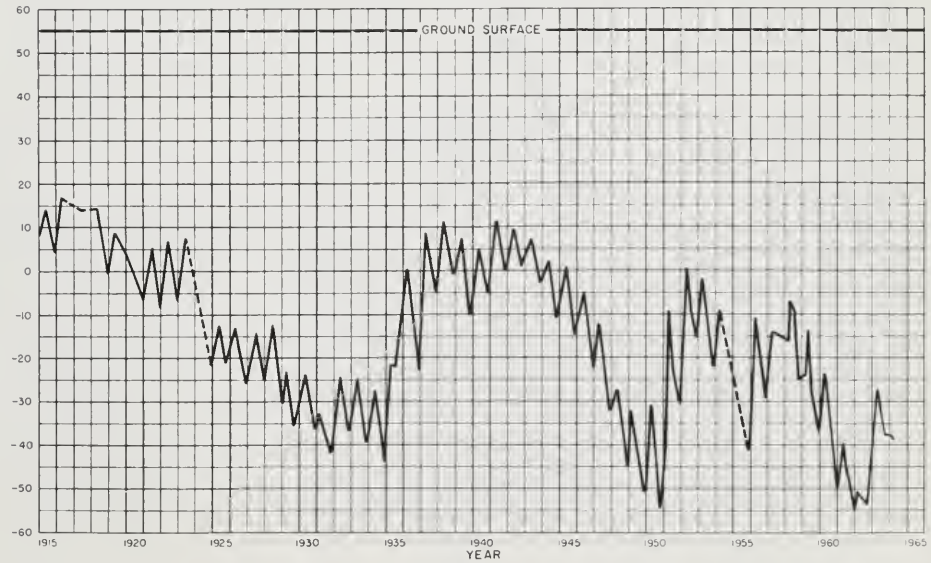


FIGURE CI

FLUCTUATION OF WATER LEVEL IN WELLS SAN FRANCISCO BAY REGION

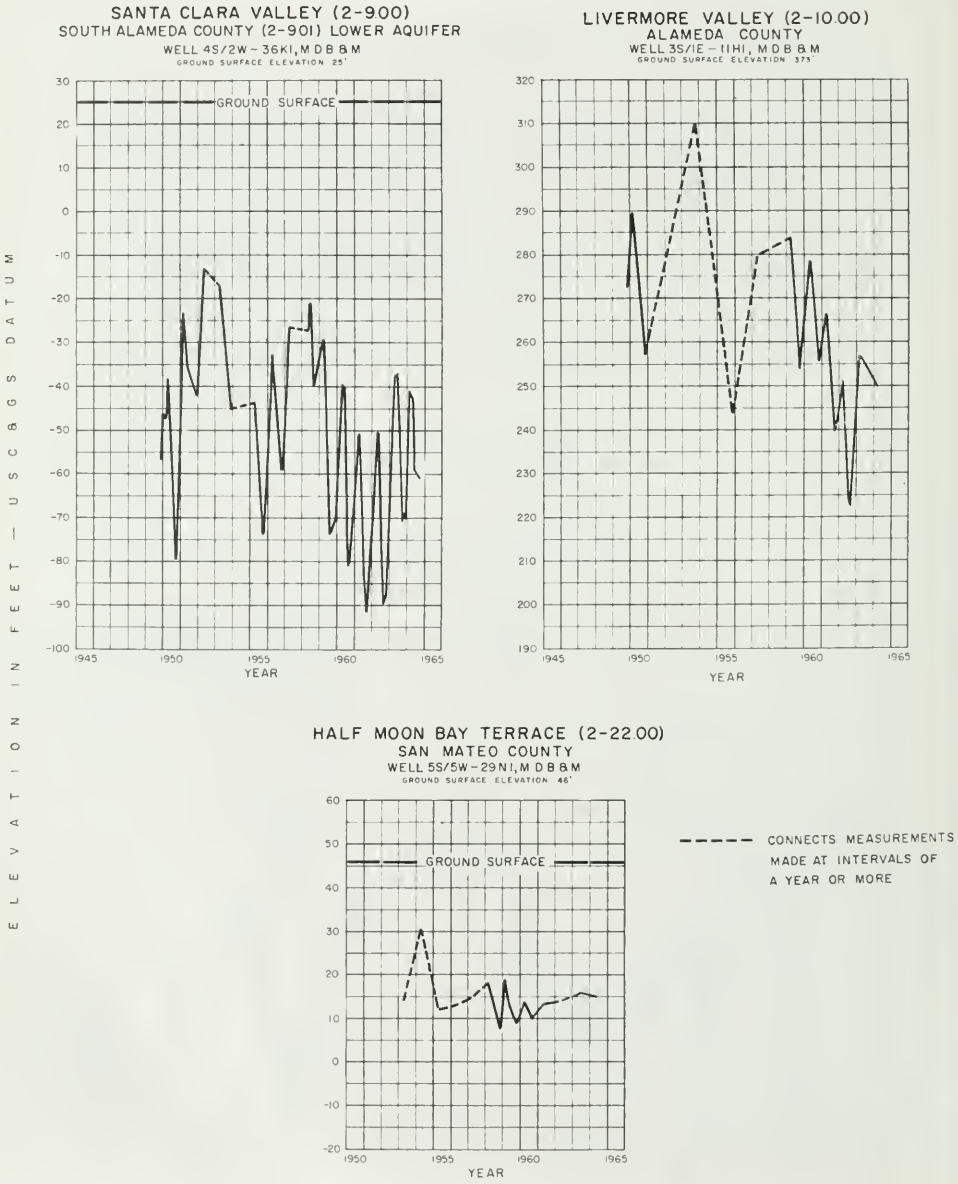


FIGURE CI
FLUCTUATION OF WATER LEVEL IN WELLS CENTRAL COASTAL REGION

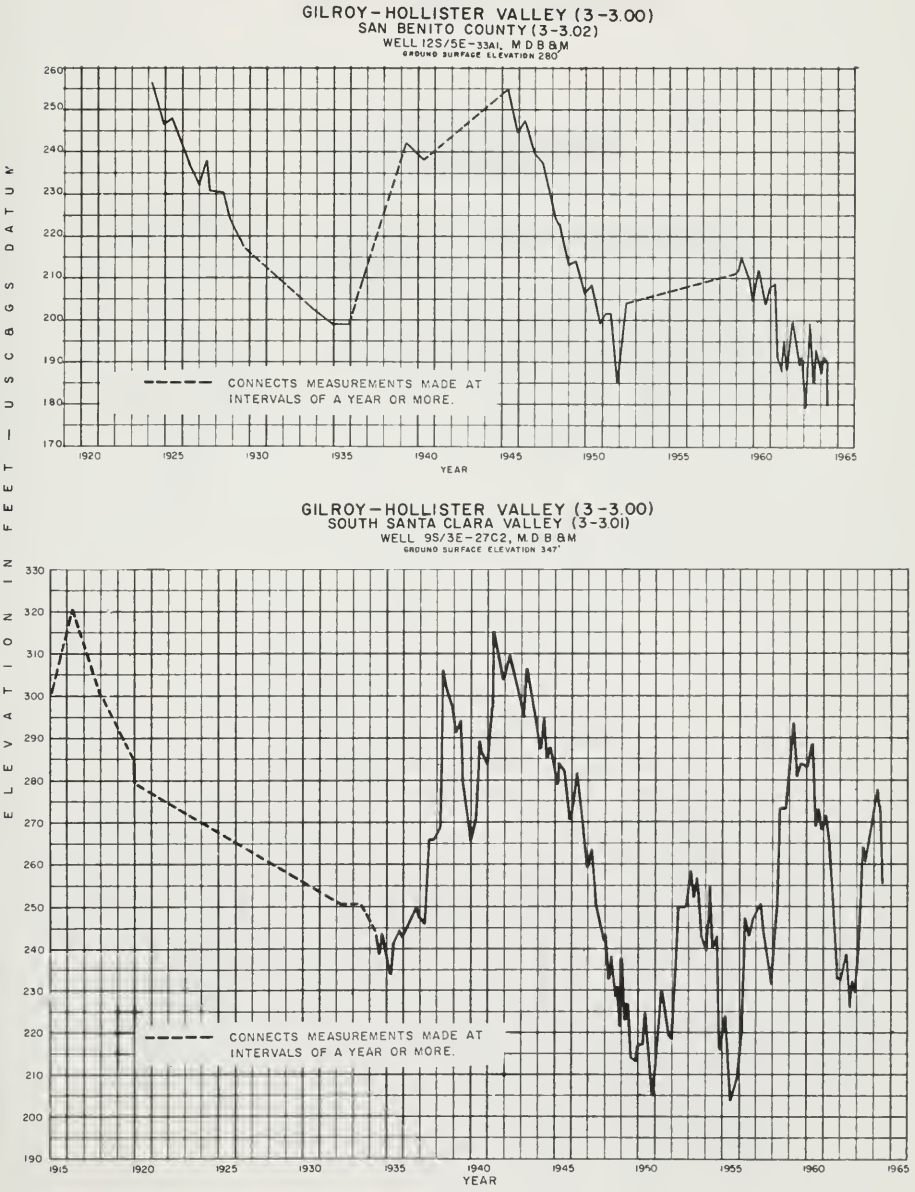


FIGURE C1
FLUCTUATION OF WATER LEVEL
IN WELLS
CENTRAL COASTAL REGION

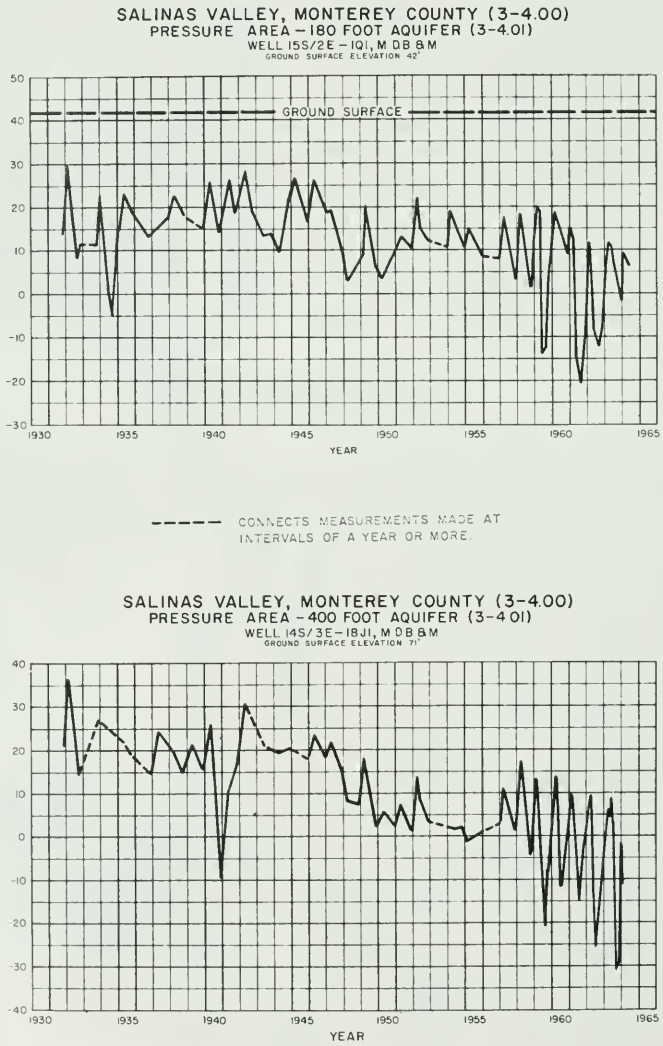
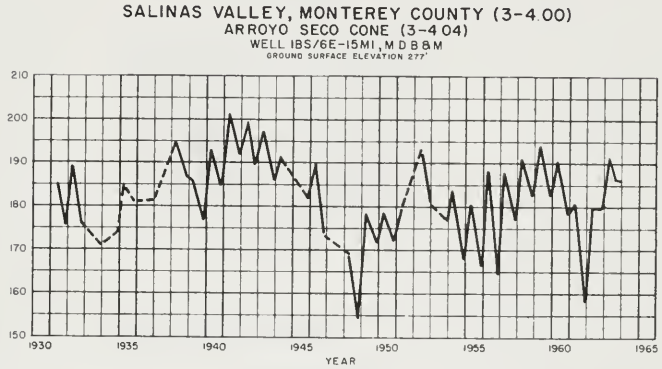


FIGURE C1

FLUCTUATION OF WATER LEVEL IN WELLS CENTRAL COASTAL REGION



----- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE.

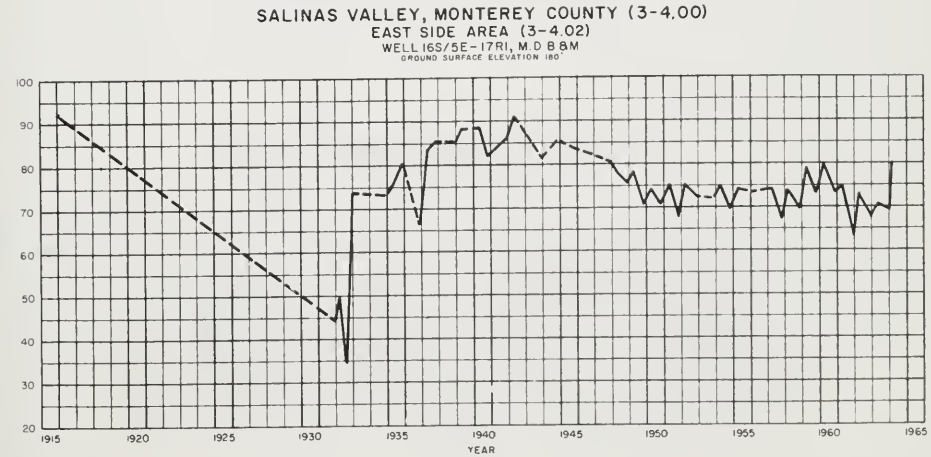
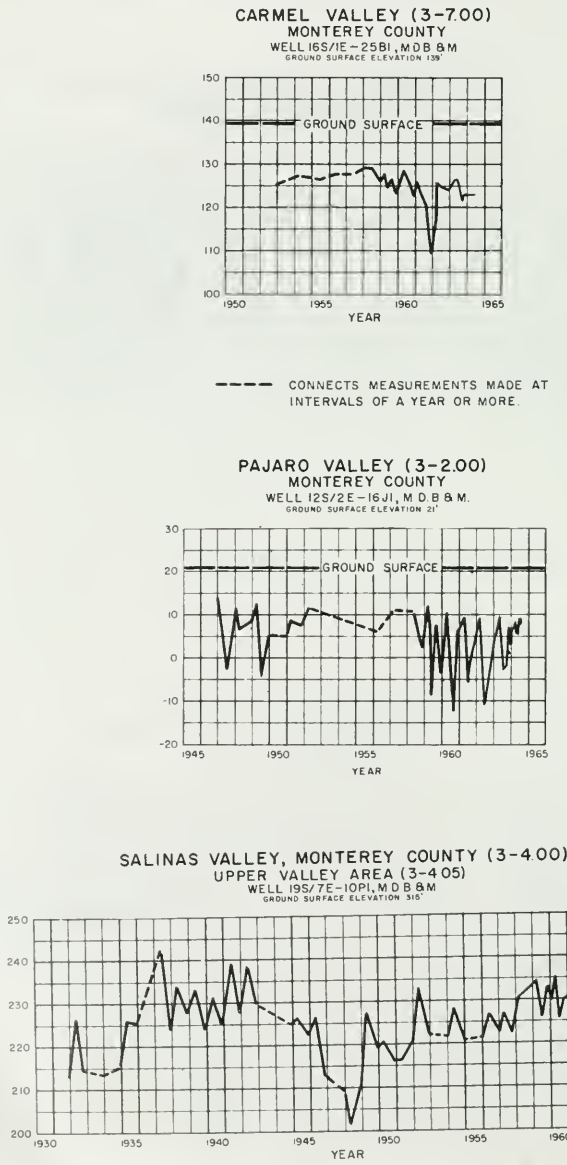


FIGURE C1

FLUCTUATION OF WATER LEVEL IN WELLS CENTRAL COASTAL REGION



APPENDIX D

SURFACE WATER QUALITY

ACKNOWLEDGMENTS

The Department of Water Resources gratefully acknowledges the assistnce and contributions of the many public agencies, private organizations, and ndividuals whose cooperation greatly facilitated the preparation of this ppendix. Special mention is made of the following agencies:

Federal

United States Geological Survey

State

California Department of Public Health

INTRODUCTION

This appendix contains data pertaining to the quality of surface waters in the Central Coastal Area. The data presented are the observed physical, chemical, bacteriological, and radiological characteristics of surface waters sampled during the 1964 water year, which covers the period from October 1, 1963 through September 30, 1964.

Laboratory Methods and Procedures

Methods of mineral and bacterial analysis, in general, are those described in the American Public Health Association publication, "Standard Methods for the Examination of Water and Sewage", 11th Edition, 1960. In some cases, the methods described in U. S. Geological Survey, "Methods for Collection and Analysis of Water Samples", Water Supply Paper 1454, 1960, have been employed.

Types of analyses normally made of surface water samples collected by the Department are mineral, bacterial, radiological, and trace element.

Sampling Station Data and Index

Table D-1, "Sampling Station Data and Index", is an alphabetic listing of stations from which surface water samples were collected. The analyses of these samples are reported in subsequent tables. The station number is an arbitrary number that has been assigned to each station. The location pertains to either the township, range, and section of the Public Land Survey or to latitude and longitude. The stations are classified into monitoring, investigational, and operational types.

nalyses of Surface Water

Table D-2, "Analyses of Surface Water", includes physical characteristics of the water and results of mineral and bacterial analyses. The data re presented in numerical order by Water Quality Control Board regions, and n a north to south order of streams within a region. At the time the samples ere collected for laboratory examination, field determinations were made for issolved oxygen (DO) by the modified Winkler method, water temperature, and pH. isual inspections were made of the streams and the physical conditions were oted. This information is kept on file with the Department.

Samples collected for bacterial examination were delivered to the aboratory as quickly as possible. Results of bacterial determinations presented in this appendix should be considered as qualitative and quantitative ndicators. Undue weight should not be given to the values for quantitative urposes.

Data from operational stations are shown separately at the end of he table. These data consist of analyses of South Bay Aqueduct water.

ummary of Coliform Analyses

Coliform data included in Table D-2 are made more usable by summarizing the results of the analyses of the 24 samples collected at each tation during the year. Table D-3 is a summary of these analyses.

pectrographic Analyses of Surface Water

Spectrographic analyses were made to determine the concentration of 7 different metals in surface water samples. Most of these metals are present n very small amounts and are often called trace metals. The concentrations ndicated in Table D-4 are in parts per billion instead of parts per million

which is commonly used in reference to concentrations of mineral constituents. The symbols included with the constituent quantities are:

$<$ Less than the amount indicated.

$\leqq$ Equal to or slightly less than the amount indicated.

Radioassays of Surface Water

Table D-5, "Radioassays of Surface Water", presents the radioactivity of surface water samples collected at 24 monitoring stations. The samples were collected in May and September at the same time that samples were collected for standard mineral analyses shown on Table D-2. The methods and procedures of sample preparation and determination of radioactivity in surface water are described in "Standard Methods for the Examination of Water and Sewage, 11th Edition".

Results are expressed as pico curies per liter (pc/l). The term pico curies is also written micro-micro curies and is further defined as 10^{-12} curies. Four values are reported for each sample: (a) alpha activity in the filtrate (dissolved material), (b)alpha activity in the solids retained on the filter (suspended material), (c) beta activity in the filtrate, and (d) beta activity in the solids. Sample counts are corrected for background and geometric efficiency. Dissolved material is designated by "Diss." in the table. Standard statistical procedures are utilized to compute the 0.9 error. The final result is expressed (symbolically) as $x \pm y$ pc/l. This means that in a series of determinations on the same sample, the value of x should fall between $x - y$ and $x + y$ 90 percent of the time.

Salinity Observations at Bay and Delta Stations

Table D-6 describes the seven stations for which salinity data are listed in Table D-7 and includes maximum observed salinity at bay and delta

tations. Table D-7 presents chloride concentrations of samples collected at even stations between Sobrante Beach and Collinsville for the period October 1, 963 through June 30, 1964.

lectrical Conductance

Data from two electrical conductivity recorders are presented in igures D-1 and D-2. These data are machine prepared graphs. Daily mean alues are plotted in Figure D-1 and single daily reading at 1300 hours are lotted in Figure D-2. Each figure or graph presents the data from a station.

TABLE D-1
SAMPLING STATION DATA AND INDEX

Station	Station Number	Location[a]	Beginning of Record	Station[c] Type	Sampled[d] By	Analysis on page
ALAMEDA CREEK NEAR NILES	73	4S/1W-15	Dec. 1951	M	DWR	116
ALAMEDA CREEK NEAR NILES	73	4S/1W-15	Dec. 1959	M	USGS	114
ALBA CREEK	245	9S/2W-32	Oct. 1963	I	DWR	134
ALTAMONT CREEK AT ALTAMONT TURNOUT OF SOUTH BAY AQUEDUCT	201	2S/3E-31	June 1962	O	DWR	113
ARROYO DEL VALLE NEAR LIVERMORE	71	4S/2E-4	July 1958	M	DWR	117
BEAN CREEK ONE MILE EAST OF FELTON	204	10S/2W-22	Aug. 1963	I	DWR	143
BEAR CREEK AT BOULDER CREEK	205	9S/2W-30	Aug. 1963	I	DWR	132
BEAR CREEK FOUR MILES NORTHEAST OF BOULDER CREEK	206	9S/2W-10	Aug. 1963	I	DWR	129
BETHANY FOREBAY AT SOUTH BAY PUMPING PLANT	207	2S/3E-10	Apr. 1962	O	DWR	163
BIG RIVER NEAR MOUTH	8c	17N/17W-24	Jan. 1959	M	DWR	105
BLANCO DRAIN INTO SALINAS RIVER	246	14S/2E-16	Aug. 1964	I	DWR	153
BOULDER CREEK AT BOULDER CREEK	208	9S/2W-30	Aug. 1963	I	DWR	133
BOULDER CREEK	247	9S/3W-14	Oct. 1963	I	DWR	136
BRANCIFORTE CREEK NEAR SANTA CRUZ	209	11S/1W-7	Nov. 1963	I	DWR	147
BRANCIFORTE CREEK	248	11S/1W-7	Aug. 1963	I	DWR	148
BUTANO CREEK	249	8S/5W-14	Sept. 1963	I	DWR	123
BUTANO CREEK	250	8S/5W-25	Apr. 1964	I	DWR	124
CARBONERA CREEK	251	11S/1W-7	Jan. 1964	I	DWR	149
CARMEL RIVER AT ROBLES DEL RIO	83	17S/2E-2	Jan. 1952	M	DWR	158
CLEAR CREEK AT BROOKDALE	210	9S/2W-32	Aug. 1963	I	DWR	135
COLLINSVILLE	236	38°04' Lat[b] 121° 51' Long	1924	M	DWR	171
COYOTE CREEK NEAR MADRONE	82	9S/3E-9	Jan. 1952	M	DWR	124
CROCKETT	237	38°03' Lat[b] 122°13' Long	1946	M	DWR	171
DENNISTON CREER	252	5S/6W-2	Sept. 1963	I	DWR	118
FALL CREEK ONE-RALF MILE NORTH OF FELTON	211	10S/2W-16	Aug. 1963	I	DWR	142
GAZOS CREEK	253	9S/5W-11	Sept. 1963	I	DWR	125
GUALALA RIVER, SOUTH FORK, NEAR ANNAPOLIS	9a	10N/14W	Jan. 1959	M	DWR	107
KINGS CREEK TWO MILES NORTH OF BOULDER CREEK	213	9S/2W-18	Aug. 1963	I	DWR	130
LIVERMORE CANAL AT PATTERSON RESERVOIR	214	3S/3E-6	Aug. 1962	D	DWR	164
LOMPICO CREEK ONE MILE NORTH OF OLYMPIA	215	10S/2W-11	Aug. 1963	I	DWR	141
LOS GATOS CREEK NEAR LOS GATOS	74	8S/1W-29	Dec. 1951	M	DWR	121
LOVE CREEK AT BEN LOMOND	216	10S/2W-4	Aug. 1963	I	DWR	139
MARTINEZ	239	38°02' Lat[b] 122°08' Long	1926	M	DWR	171
MARSHALL CREEK	254	10S/2W-5	Oct. 1963	I	DWR	140
MIDDLE POINT	255	38°03' Lat[b] 121°59' Long	Jan. 1964	M	DWR	171
NACIMIENTO RIVER NEAR SAN MIGUEL	43b	25S/11E-4	July 1958	M	DWR	161
NAPA RIVER NEAR ST. HELENA	72	8N/5W-33	Dec. 1951	M	DWR	112

a Locations are referenced to Mt. Diablo Base and Meridian.
b Locations given in latitude and longitude because the areas have not been surveyed for township, range, and section.
c M-Monitoring, I-Investigational, O-Operational.
d DWR-Department of Water Resources, USGS-United States Geological Survey

TABLE D-1
SAMPLING STATION DATA AND INDEX

Station	Station Number	Location[a]	Beginning of Record	Station[c] Type	Sampled[d] By	Analysis on page
AVARRO RIVER NEAR NAVARRO	8b	15N/16W-7	Jan. 1959	M	DWR	106
EWELL CREEK ONE MILE NORTHEAST OF BEN LOMOND	219	10S/2W-3	Aug. 1963	I	DWR	139
OYO RIVER NEAR FORT BRAGG	10c	18N/17W-10	Jan. 1959	M	DWR	104
AJARO RIVER NEAR CHITTENDEN	77	12S/3E-12	Dec. 1951	M	DWR	152
ESCADERO CREEK	256	8S/4W-5	Sept. 1963	I	DWR	122
ITTSBURG	240	38°02' Lat[b] 121°53' Long	1945	M	DWR	171
ORT CHICAGO	241	38°04' Lat[b] 122°02' Long	1946	M	DWR	171
URISIMA CREEK	257	6S/5W-2	Sept. 1963	I	DWR	119
URISIMA CREEK	258	6S/5W-21	Feb. 1964	I	DWR	120
USSIAN RIVER, EAST FORK, AT POTTER VALLEY POWERHOUSE	10a	17N/11W-6	May 1951	M	DWR	111
USSIAN RIVER AT GUERNEVILLE	10	8N/10W-32	Apr. 1951	M	DWR	108
USSIAN RIVER NEAR HEALDSBURG	9	9N/9W-22	Apr. 1951	M	DWR	109
USSIAN RIVER NEAR HOPLAND	8a	14N/12W-36	Apr. 1951	M	DWR	110
LINAS RIVER NEAR BRADLEY	43c	23S/10E-15	July 1958	M	DWR	159
LINAS RIVER AT PASO ROBLES	43a	26S/12E-28	Apr. 1951	M	DWR	162
LINAS RIVER NEAR SPRECKELS	43	15S/3E-18	Apr. 1951	M	DWR	156
LINAS RIVER, MILE 9.51	259	15S/2E-2	Aug. 1964	I	DWR	155
LINAS RIVER, MILE 7.13	260	14S/2E-33	Aug. 1964	I	DWR	155
LINAS RIVER, MILE 4.65	261	14S/2E-16	Aug. 1964	I	DWR	154
LINAS RIVER, MILE 3.50	262	14S/2E-16	Aug. 1964	I	DWR	154
LINAS RIVER, MILE 1.70	263	14S/2E-7	Aug. 1964	I	DWR	153
LINAS RIVER, MILE 0.00	264	14S/1E-1	Aug. 1964	I	DWR	153
N ANTONIO RIVER NEAR PLEYTO	43d	24S/9E-3	July 1958	M	DWR	160
N BENITO RIVER NEAR BEAR VALLEY FIRE STATION	77a	15S/7E-28	July 1958	M	DWR	157
N GREGORIO CREEK	265	7S/5W-15	Sept. 1963	I	DWR	120
N LORENZO RIVER AT BIG TREES	226	10S/2W-27	Aug. 1963	I	DWR	146
N LORENZO RIVER AT BIG TREES NEAR FELTON	75	10S/2W-27	Dec. 1951	M	DWR	146
N LORENZO RIVER AT BOULDER CREEK	227	9S/2W-30	Aug. 1963	I	DWR	134
N LORENZO RIVER SIX MILES NORTH OF BOULDER CREEK	228	8S/3W-25	Aug. 1963	I	DWR	128
N LORENZO RIVER AT FELTON	229	10S/2W-22	Aug. 1963	I	DWR	144
N LORENZO RIVER AT SANTA CRUZ	230	11S/2W-12	Aug. 1963	I	DWR	151
QUEL CREEK AT SOQUEL	76	11S/1W-10	Dec. 1951	M	DWR	150
OONBILL CREEK	243	38°04' Lat[b] 121°54' Long	1957	M	DWR	171
O BAR CREEK ONE MILE NORTH OF BOULDER CREEK	232	9S/2W-19	Aug. 1963	I	DWR	131
AS CREEK NEAR MORGAN HILL	96	10S/3E-17	July 1952	M	DWR	137
ITEHOUSE CREEK	266	9S/5W-13	Sept. 1963	I	DWR	126
AYANTE CREEK AT FELTON	233	10S/2W-22	Aug. 1963	I	DWR	145
AYANTE CREEK AT ZAYANTE	234	10S/2W-2	Aug. 1963	I	DWR	138

[a] Locations are referenced to Mt. Diablo Base and Meridian.
[b] Locations given in latitude and longitude because the areas have not been surveyed for township, range, and section.
[c] M-Monitoring, I-Investigational, O-Operational.
[d] DWR-Department of Water Resources, USGS-United States Geological Survey

TABLE D-2
ANALYSES OF SURFACE WATER

NORTH COASTAL REGION (NO. 1)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by i
											equivalents per million															
NOYO RIVER NEAR FORT BRAGG (STA. 10c)																										
10-9-63						7.1			10		0	83		11			0.0								62.	USGS
0935	8.3	59	8.8	87	170	7.4		1.22[c]	0.44		0.00	1.36		0.31							27	61	0	1	230.	
11-14-63						7.0			7.3		0	42		7.0			0.1								620.	
1545	640	55	10.1	95	104	7.2		0.68[c]	0.32		0.00	0.69		0.20							32	34	0	50	230.	
12-11-63						6.8			8.4		0	68		7.0			0.0		As = 0.01						23.	
0830	91	44	11.4	92	143	7.8		1.06[c]	0.37		0.00	1.11		0.20							20	53	0	6	13.	
1-10-64						7.4			9.3		2	70		7.8			0.0								6.2	
0920	150	44	11.6	94	138	8.4		1.02[c]	0.40		0.07	1.15		0.22							28	51	0	25	6.2	
2-7-64						6.8			8.4		0	58		3.8			0.1								2.3	
0900	149.6	43	12.1	97	123	7.6		0.90[c]	0.37		0.00	0.95		0.11							29	45	0	2	1.3	
3-13-64						7.3			8.6		0	61		7.4			0.0								62.	
0840	160	45	11.9	98	127	7.6		0.94[c]	0.37		0.00	1.00		0.21							28	47	0	15	6.2	
4-17-64						7.3			9.4		1	76		8.5			0.1								23.	
0920	43	50	10.7	94	150	8.3		1.12[c]	0.41		0.03	1.25		0.24							27	56	0	1	620.	
5-14-64						7.3	17	4.0	9.1	0.7	0	78	6.0	7.5	0.5	0.1	0.1	20	As = 0.00						6.2	
0750	28	54	9.9	92	160	8.0	0.85	0.33	0.40	0.02	0.00	1.28	0.12	0.21	0.01	0.01			ABS = 0.0 PO_4 = 0.05	100	25	59	0	1	62.	
6-5-64						7.2			11		0	82		7.0			0.1								6.2	
0800	21	60	8.7	87	166	7.8		1.22[c]	0.48		0.00	1.34		0.20							28	61	0	1	6.2	
7-16-64						7.2			11		0	83		8.5			0.2								13.	
1145	7.6	68	8.8	96	174	8.0		1.28[c]	0.48		0.00	1.36		0.24							27	64	0	3	.62	
8-13-64						7.1			12		0	86		10			0.2									
0715	4.0	63	7.9	81	175	8.0		1.26[c]	0.52		0.00	1.41		0.28							29	63	0	3	.62	
9-4-64						7.0	19	4.0	11	0.9	0	84	6.0	10	0.4		0.1	19	As = 0.0 ABS = 0.0						130.	
0845	1.8	58	8.2	80	175	7.8	0.95	0.33	0.48	0.02	0.00	1.38	0.12	0.28	0.01				PO_4 = 0.00	108	27	64	0	1	2,400.	

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-0-8 6-61 200 SPO

ANALYSES OF SURFACE WATER

NORTH COASTAL REGION (NO. 1)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH (a) / (b)	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform MPN/ml	Analyzed by
							equivalents per million																			
BIG RIVER NEAR MOUTH (STA. Bc)																										
10-9-63						7.8			12		0	121		9.8			0.2									USGS
1120	6 est.	61	7.8	80	222	7.8		1.76[c]	0.52		0.00	1.98		0.28							23	88	0	1		
11-14-63						7.2			8.3		0	74		6.3			0.2									
1545	100 est.	56	10.0	100	155	7.5		1.22[c]	0.36		0.00	1.21		0.18							23	61	0	65		
12-11-63						6.8			9.4		0	90		7.0			0.2									
0945	90 est.	44	11.7	90	179	7.8		1.42[c]	0.41		0.00	1.48		0.20							22	71	0	5		
1-9-64						7.0			9.9		0	97		7.8			0.2									
1415	75 est.	46	11.8	99	177	8.0		1.44[c]	0.43		0.00	1.59		0.22							23	72	0	10		
2-6-64						7.2			8.6		0	79		6.5			0.1									
1700	147.8	48	11.8	102	156	7.7		1.22[c]	0.37		0.00	1.29		0.18							23	61	0	2		
3-12-64						7.5			8.3		0	69		5.8			0.2									
1520	277	46	11.7	98	140	7.6		1.10[c]	0.36		0.00	1.13		0.16							25	55	0	170		
4-16-64						7.6			11		0	100		7.0			0.2									
1500	51	58	10.3	101	193	8.2		1.56[c]	0.48		0.00	1.64		0.20							24	78	0	1		
5-13-64						7.5	22	6.6	11	1.2	0	109	8.0	8.0	0.2	0.1	0.2	17	As = 0.00							
1310	29.5	64	9.8	104	205	7.9	1.10	0.54	0.48	0.03	0.00	1.79	0.17	0.23	0 00	0.01			ABS = 0.0 PO_4 = 0.00	128	22	82	0	15		
6-4-64						7.5			12		0	117		6.5			0.2									
1250	19.6	64	9.3	98	216	7.9		1.72[c]	0.52		0.00	1.92		0.18							23	83	0	1		
7-16-64						7.4			13		0	120		7.1			0.4									
1245	10 est.	70	9.3	105	223	7.7		1.74[c]	0.57		0.00	1.97		0.20							25	87	0	1		
8-12-64						7.9			14		0	124		7.0			0.4									
1145		66	8.9	96	223	8.0		1.74[c]	0.61		0.00	2.03		0.20							26	87	0	1		
9-3-64						7.3	22	7.8	13	1.2	0	122	5.0	7.3	0.4		0.4	16	As = 0.00 ABS = 0.1							
1315	8.8	64	9.6	102	224	7.9	1.10	0.64	0.57	0.03	0.00	2.00	0.10	0.21	0.01				PO_4 = 0.05	129	24	87	0	2		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32575-D-8 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

NORTH COASTAL REGION (NO. 1)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
														equivalents per million												
NAVARRO RIVER NEAR NAVARRO (STA. 8b)																										
10-9-63						7.3			12		0	150		11			0.0								5.0	USGS
1237	24	64	8.6	90	265	7.8		2.26[c]	0.52		0.00	2.46		0.31							19	113	0	1	2.3	
11-14-63						7.6			9.7		0	88		7.5			0.1								230.	
1745	1,000	57	9.5	91	193	7.3		1.54[c]	0.42		0.00	1.44		0.21							21	77	5	300	230.	
12-11-63						7.1			11		0	119		9.0			0.2								6.2	
1100	155	46	10.5	96	232	7.9		1.92[c]	0.48		0.00	1.95		0.25							20	96	0	3	6.2	
1-10-64						6.9			13		0	125		9.0			0.1								2.3	
1030	142	46	11.5	96	242	7.9		2.02[c]	0.57		0.00	2.05		0.25							22	101	0	3	6.2	
2-7-64						7.1			10		0	110		7.0			0.1								23.	
1125	285	47	11.6	98	210	8.0		1.72[c]	0.44		0.00	1.80		0.20							20	86	0	4	13.	
3-13-64						7.3			10		0	95		7.2			0.1								23.	
1050	180	47	11.3	96	197	7.9		1.60[c]	0.44		0.00	1.56		0.20							22	80	2	20	6.2	
4-17-64						7.6			12		2	128		8.5			0.1								62.	
1100	80	56	10.1	96	249	8.4		2.10[c]	0.52		0.07	2.10		0.24							20	105	0	1	6.2	
5-14-64						7.5	27	10	10	1.3	0	138	10	9.5	0.1	0.3	0.1		As = 0.00						1.3	
0910	50	58	9.5	92	259	8.1	1.35	0.85	0.44	0.03	0.00	2.26	0.21	0.27	0.00	0.02			ABS = 0.0 PO_4 = 0.05	154	16	110	0	1	1.3	
6-5-64						7.3			13		0	141		8.5			0.2								62.	
0940	36	63	9.1	94	265	7.8		2.20[c]	0.57		0.00	2.31		0.24							21	110	0	1	2.1	
7-16-64						7.6			13		0	144		8.6			0.2								.50	
1400	12	74	10.3	119	269	7.8		2.22[c]	0.57		0.00	2.36		0.24							20	111	0	1	.62	
8-13-64						7.3			14		0	146		7.5			0.3								2.3	
0845	7.1	65	6.9	73	270	7.7		2.24[c]	0.61		0.00	2.39		0.21							21	112	0	3	.62	
9-4-64						7.2	28	10	14	1.3	0	147	9.0	8.1	0.3		0.2	16	As = 0.00 ABS = 0.1						620.	
1045	9.3	62	7.8	80	269	8.0	1.40	0.86	0.61	0.03	0.00	2.41	0.19	0.23	0.00				PO_4 = 0.00	157	21	113	0	1	1,300.	

o Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-8 6-61 200 SPO

ANALYSES OF SURFACE WATER

NORTH COASTAL REGION (NO. 1)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
GUALALA RIVER, SOUTH FORK, NEAR ANNAPOLIS (STA. 9a)																										
10-9-63						7.8			13		0	154		11			0.0								62.	USGS
1435	17	68	10.3	112	277	8.0		2.36[c]	0.57		0.00	2.52		0.31							19	118	0	2	62.	
11-14-63						7.5			5.5		0	59		3.8			0.1								230.	
2000	4,100	56	10.1	96	122	7.2		1.00[c]	0.24		0.00	0.97		0.11							19	50	2	140	2,400.	
12-11-63						7.3			9.2		0	114		8.6			0.0								2.3	
1345	120	47	11.3	95	217	8.0		1.84[c]	0.40		0.00	1.87		0.24							18	92	0	1	2.3	
1-10-64						7.3			11		5	125		8.1			0.0								2.3	
1210	103	45	12.3	101	236	8.5		2.02[c]	0.48		0.17	2.05		0.23							19	101	0	1	6.2	
2-7-64						7.5			9.4		0	106		6.5			0.0								6.2	
1410	186	48	12.0	103	201	8.2		1.80[c]	0.41		0.00	1.74		0.18							19	90	3	3	.13	
3-13-64						7.6			9.4		0	97		6.0			0.1								2.1	
1205	250	50	11.3	100	199	8.0		1.66[c]	0.41		0.00	1.59		0.17							20	83	3	10	3.7	
4-17-64						7.6			12		4	128		7.3			0.1								1.3	
1345	43	61	10.0	101	252	8.5		2.16[c]	0.52		0.13	2.10		0.21							19	108	0	1	23.	
5-14-64						7.8	26	11	11	1.0	0	134	14	8.0	0.4	0.2	0.1	12	As = 0.00						23.	
1110	28	63	10.9	112	258	7.9	1.30	0.90	0.48	0.03	0.00	2.20	0.29	0.23	0.01	0.01			ABS = 0.0 PO_4 = 0.00	145	18	110	0	1	2.3	
6-5-64						8.0			13		0	136		6.5			0.1								.50	
1145	36	66	11.3	120	257	8.1		2.16[c]	0.57		0.00	2.23		0.18							21	108	0	1	13.	
7-16-64						7.8			13		3	144		7.5			0.1								2.1	
1545	6.9	72	9.3	106	277	8.3		2.38[c]	0.57		0.10	2.36		0.21							19	119	0	2	.23	
8-13-64						7.9			13		0	146		7.5			0.2								6.2	
1100	3.4	72	9.5	108	272	8.1		2.30[c]	0.57		0.00	2.39		0.21							20	115	0	1	23.	
9-4-64						7.5	29	11	13	1.1	0	153	13	7.5	0.6		0.1	16	As = 0.00 ABS = 0.0						0.2	
1330	3.1	68	8.9	97	277	8.0	1.45	0.93	0.57	0.03	0.00	2.51	0.27	0.21	0.01				PO_4 = 0.00	160	19	119	0	1	2.3	

o Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-8 6-61 200 SPO

TABLE D-2
ANALYSES OF SURFACE WATER

NORTH COASTAL REGION (NO. 1)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in ppm / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
RUSSIAN RIVER AT GUERNEVILLE (STA. 10)																										
10-9-63						7.7			9.4		0	155		9.0			0.2								2.3	USGS
1655	216	69	8.4	92	276	7.9		2.48[c]	0.41		0.00	2.54		0.25							14	124	0	5	6.2	
11-14-63						7.5			7.1		0	89		5.2			0.3								2,400.	
2145	4,710	57	9.1	88	189	7.5		1.60[c]	0.31		0.00	1.46		0.15							16	80	7	40	2,400.	
12-11-63						7.4			11		0	159		9.0			0.3								6.2	
1545	375	49	10.7	93	306	7.8		2.72[c]	0.48		0.00	2.61		0.25							15	136	6	3	6.2	
1-10-64						7.1			9.3		7	121		7.1			0.3								23.	
1355	748	48	11.5	99	228	8.5		2.02[c]	0.40		0.23	1.98		0.20							17	101	0	15	6.2	
2-5-64						7.5			9.8		0	144		7.8			0.2								2.3	
1500	1,570	54	10.4	97	264	7.8		2.40[c]	0.43		0.00	2.36		0.22							15	120	2	6	62.	
3-13-64						8.4			8.7		0	109		5.2			0.2								620.	
1400	1,620	52	10.6	96	218	7.8		1.92[c]	0.38		0.00	1.79		0.15							17	97	8	25	62.	
4-17-64						8.3			12		3	166		9.0			0.3								.62	
1550	340	67	11.5	124	312	8.4		2.85[c]	0.52		0.10	2.72		0.25							15	142	1	4	2.3	
5-14-64						8.2	29	19	12	1.7	0	182	17	9.0	0.7	0.1	0.4	14	As = 0.00 ABS = 0.1 PO_4 = 0.45						23.	
1310	173	70	11.4	127	329	8.1	1.45	1.53	0.52	0.04	0.00	2.98	0.35	0.25	0.01	0.01				186	15	149	0	1	23.	
6-5-64						8.4			12		0	189		8.5			0.5								13.	
1415	114	73	9.1	104	339	8.0		3.12[c]	0.52		0.00	3.10		0.24							14	156	1	1	23.	
7-16-64						8.2			8.8		0	157		5.0			0.4								23.	
1700	152	77	10.2	122	281	7.9		2.64[c]	0.38		0.00	2.57		0.14							13	132	3	5	13.	
8-13-64						8.1			9.5		1	152		4.5			0.6								23.	
1245	142	76	8.5	100	273	8.3		2.54[c]	0.41		0.03	2.49		0.13							14	127	1	9	6.2	
9-4-64						8.0	27	14	9.0	1.0	0	154	11	4.6	0.9		0.5	16	As = 0.00 ABS = 0.0 PO_4 = 0.00						.62	
	170	74	9.0	104	269	8.0	1.35	1.13	0.39	0.03	0.00	2.52	0.23	0.13	0.01					143	13	124	0	2	1.3	

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-6 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

NORTH COASTAL REGION (NO. 1)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: NC ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
RUSSIAN RIVER NEAR HEALDSBURG (STA. 9)																										
10-11-63						7.7			7.0		0	137		6.9			0.2								62.	USGS
0920	260	62	8.2	84	237	7.7		2.20[c]	0.30		0.00	2.25		0.19							12	110	0	8	62.	
11-13-63						7.8			7.4		0	133		6.8			0.4								62.	
1410	605	59	9.8	97	245	8.0		2.22[c]	0.32		0.00	2.18		0.19							13	111	2	15	62.	
12-13-63						7.2			9.2		0	162		7.0			0.4								6.2	
1210	418	47	11.8	99	292	8.1		2.74[c]	0.40		0.00	2.66		0.20							13	137	4	2	6.2	
1-8-64						7.3			7.3		4	102		5.0			0.3								230.	
1215	1,560	50	11.9	105	192	8.6		1.72[c]	0.32		0.13	1.67		0.14							16	86	0	30	62.	
2-5-64						7.9			8.8		0	146		4.5			0.3								6.2	
1330	800	54	10.8	100	263	8.0		2.48[c]	0.38		0.00	2.39		0.13							13	124	4	10	23.	
3-11-64						8.0			8.5		0	140		5.5			0.3								23.	
1530	544	51	11.4	102	258	8.0		2.36[c]	0.37		0.00	2.29		0.16							14	118	3	3	2.3	
4-15-64						8.2			9.5		2	158		6.5			0.4								2.3	
1210	313	69	10.9	120	288	8.4		2.72[c]	0.41		0.07	2.59		0.18							13	136	3	2	23.	
5-12-64						8.0	33	15	9.2	1.0	0	171	15	8.5	1.0	0.2	0.5	12	As = 0.00						23.	
1130	166	68	9.5	103	309	7.9	1.65	1.23	0.40	0.03	0.00	2.80	0.31	0.24	0.02	0.01			ABS = 0.0 PO_4 = 0.00	169	12	144	4	1	13.	
6-3-64						8.4			7.4		2	168		8.0			0.5								23.	
1110	150	70	9.7	108	310	8.3		2.88[c]	0.32		0.07	2.75		0.23							10	144	3	1	13.	
7-15-64						7.8			8.8		4	140		4.4			0.5								.62	
1045	195	78	8.7	105	262	8.3		2.48[c]	0.38		0.13	2.29		0.12							13	124	3	2	.62	
8-11-64						8.2			9.1		0	148		4.5			0.6								23.	
1200	182	74	8.7	101	258	8.2		2.38[c]	0.40		0.00	2.43		0.13							14	119	0	2	23.	
9-2-64						8.1	27	13	8.8	1.0	0	145	11	4.8	0.6		0.5	12	As = 0.00 ABS = 0.1						6.2	
1215	180	70	8.8	98	257	7.9	1.35	1.03	0.38	0.03	0.00	2.38	0.23	0.14	0.01				PO_4 = 0.00	142	14	119	0	1	6.2	

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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TABLE D-2
ANALYSES OF SURFACE WATER
NORTH COASTAL REGION (NO. 1)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonates (CO_3)	Bicarbonate (HCO_3)	Sulfates (SO_4)	Chlorides (Cl)	Nitrates (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
RUSSIAN RIVER NEAR HOPLAND (STA. 8a)																										
10-10-63						7.9			5.6		0	100		4.9			0.1								2.3	USGS
1325	236	62	9.2	96	181	7.6		1.62[c]	0.24		0.00	1.64		0.14							13	81	0	2	6.2	
11-13-63						7.4			6.8		0	105		5.8			0.4								23.	
1230	435	61	9.3	96	196	7.7		1.72[c]	0.30		0.00	1.72		0.16							15	86	0	7		
12-13-63						7.2			8.9		0	119		6.7			0.4								23.	
1100	181	47	10.5	90	227	7.8		1.92[c]	0.39		0.00	1.95		0.19							17	96	0	10	6.2	
1-8-64						7.2			6.6		0	97		4.5			0.3								23.	
1115	1,880	48	11.6	101	178	7.7		1.60[c]	0.29		0.00	1.59		0.13							15	80	0	30	6.2	
2-5-64						7.3			9.0		0	112		6.2			0.1								230.	
1200	400	51	9.6	87	218	7.8		1.86[c]	0.39		0.00	1.84		0.17							17	93	1	6	23.	
3-11-64						7.4			7.4		0	97		5.8			0.2								6.2	
1400	527	47	11.3	97	185	7.7		1.63[c]	0.32		0.00	1.59		0.16							16	82	2	15	2.3	
4-15-64						7.6			8.7		1	115		7.0			0.3								23.	
1145	158	63	11.0	116	216	8.3		1.92[c]	0.38		0.03	1.88		0.20							17	96	0	3	23.	
5-12-64						7.4	24	9.2	9.6	0.8	0	120	9.0	10	1.9	0.3	0.4	9.4	As = 0.00 ABS = 0.1						620.	
0930	122	64	9.5	98	223	8.1	1.20	0.76	0.42	0.02	0.00	1.97	0.19	0.28	0.03	0.02			PO_4 = 0.35	135	18	98	0	1	230.	
6-3-64						7.4			7.6		0	106		3.5			0.3								23.	
0955	146	59	10.1	101	200	7.4		1.78[c]	0.33		0.00	1.74		0.10							16	89	2	4	62.	
7-15-64						7.4			7.2		0	102		3.0			0.3								23.	
0900	219	65	9.8	105	191	7.6		1.72[c]	0.31		0.00	1.67		0.08							15	86	2	4	23.	
8-11-64						8.1			7.6		0	108		3.5			0.4								23.	
1045	211	65	9.7	104	198	8.0		1.76[c]	0.33		0.00	1.77		0.10							16	88	0	1	2.3	
9-2-64						7.7	25	7.7	7.8	0.8	0	116	9.0	3.6	0.8		0.4	7.0	As = 0.00 ABS = 0.1						2.3	
1030	241	65	8.5	91	208	7.6	1.25	0.63	0.34	0.02	0.00	1.90	0.19	0.10	0.01				PO_4 = 0.05	120	15	94	0	1	6.2	

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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ANALYSES OF SURFACE WATER

NORTH COASTAL REGION (NO. 1)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chlorids (Cl)	Nitrats (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
RUSSIAN RIVER, EAST FORK, AT POTTER VALLEY POWER HOUSE (STA. 10a)																										
10-10-63 1445	217	62	8.4	89	178	7.7 / 7.9		1.62[c]	5.0 / 0.22		0 / 0.00	99 / 1.62		4.8 / 0.14			0.1				12	81	0	6	23. / 23.	USGS
11-13-63 1100	309	55	9.9	96	193	7.4 / 8.2		1.70[c]	7.0 / 0.30		0 / 0.00	106 / 1.74		5.8 / 0.16			0.7				15	85	0	10	6.2 / 23.	
12-13-63 0920	302	43	11.4	94	167	7.3 / 7.8		1.50[c]	5.5 / 0.24		0 / 0.00	89 / 1.46		4.8 / 0.14			0.4				14	75	2	10	.62 / 2.3	
1-8-64 0950	303	43	11.3	93	164	7.3 / 8.5		1.47[c]	5.9 / 0.26		6 / 0.20	84 / 1.38		4.5 / 0.13			0.3				15	74	0	3	2.3 / .62	
2-5-64 0930	299	43	11.9	98	136	7.3 / 7.9		1.22[c]	5.3 / 0.23		0 / 0.00	72 / 1.18		2.8 / 0.08			0.2				16	61	2	40	2.1 / 2.3	
3-11-64 1230	298	44	11.6	97	146	7.4 / 7.9		1.29[c]	5.3 / 0.23		0 / 0.00	77 / 1.26		3.8 / 0.11			0.3				15	65	2	15	.62 / .62	
4-15-64 0945	60	59	9.4	96	179	7.6 / 8.6		1.58[c]	7.0 / 0.30		4 / 0.13	92 / 1.51		5.2 / 0.15			0.4				16	79	0	2	21. / 2.3	
5-12-64 0800	27	64	9.0	97	186	7.6 / 8.0	22 / 1.10	6.6 / 0.54	6.5 / 0.28	0.5 / 0.01	0 / 0.00	98 / 1.61	10 / 0.21	5.8 / 0.16	0.5 / 0.01	0.1 / 0.01	0.6	9.7	As = 0.00 ABS = 0.0 PO_4 = 0.00	108	15	82	2	1	50. / 2.3	
6-3-64 0845	28	64	9.1	98	182	7.9 / 7.9		1.60[c]	7.0 / 0.30		0 / 0.00	97 / 1.59		3.5 / 0.10			0.5				16	80	0	2	6.2 / .62	
7-16-64 0930	200	68	9.1	103	168	7.6 / 7.9		1.50[c]	5.6 / 0.24		0 / 0.00	90 / 1.48		2.6 / 0.07			0.3				14	75	1	3	13. / 2.3	
8-11-64 0930	120	66	8.9	98	169	8.0 / 8.2		1.50[c]	6.6 / 0.29		0 / 0.00	91 / 1.49		2.5 / 0.07			0.4				16	75	0	2	2.3 / 2.3	
9-2-64 0910	130	59	8.7	89	172	7.4 / 8.0	25 / 1.25	3.8 / 0.31	6.0 / 0.26	0.4 / 0.01	0 / 0.00	93 / 1.52	7.0 / 0.15	2.9 / 0.08	0.5 / 0.01		0.4	9.9	As = 0.01 ABS = 0.0 PO_4 = 0.00	103	14	78	2	2	2.3 / 6.2	

o Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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TABLE D-2
ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfates (SO_4)	Chlorides (Cl)	Nitrate (NO_3)	Fluorides (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N C ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
NAPA RIVER NEAR ST. HELENA (STA. 72)																										
10-11-63 1030	4.0	64	4.1	43	400	7.0 / 7.4		3.04c	19 / 0.83		0 / 0.00	180 / 2.95		21 / 0.59			0.3				21	152	4	2	7000. 7000.	USGS
11-13-63 1530	7.0	64	7.5	79	308	7.0 / 8.1		2.00c	25 / 1.09		0 / 0.00	117 / 1.92		24 / 0.68			0.7				35	100	4	8	62. 130.	
12-13-63 1330	18	47	8.1	73	238	7.1 / 7.3		1.52c	18 / 0.78		0 / 0.00	90 / 1.48		14 / 0.39			0.4				34	76	2	5	62. 230.	
1-8-64 1355	11	50	10.4	92	274	7.1 / 7.8		1.66c	24 / 1.04		0 / 0.00	102 / 1.67		21 / 0.59			0.6				39	83	0	15	23. 23.	
2-5-64 1910	48	54	9.3	87	208	7.2 / 7.8		1.44c	14 / 0.61		0 / 0.00	87 / 1.43		12 / 0.34			0.1				30	72	1	10	62. 230.	
3-11-64 1720	21	52	11.0	100	270	7.2 / 7.5		1.98c	19 / 0.83		0 / 0.00	110 / 1.80		19 / 0.54			0.7				30	99	9	20	500. 62.	
4-15-64 1530	9.1	73	9.8	114	315	7.2 / 7.6		1.94c	24 / 1.04		0 / 0.00	121 / 1.98		25 / 0.71			0.8				35	97	0	1	62. 21.	
5-12-64 1415	4.3	73	12.5	146	335	7.3 / 7.8	23 / 1.15	14 / 1.13	24 / 1.04	2.8 / 0.07	0 / 0.00	139 / 2.28	18 / 0.37	22 / 0.62	5.3 / 0.09	0.4 / 0.02	0.7	35	As = 0.00 ABS = 0.1 PO_4 = 0.25	212	31	114	0	1	6.2 62.	
6-3-64 1325	2.8	71	13.8	157	336	8.1 / 8.1		2.44c	20 / 0.87		0 / 0.00	151 / 2.47		22 / 0.62			0.6				26	122	0	3	1.3 5.0	
7-15-64 1200	0.2	75	6.5	77	372	7.1 / 7.6		2.98c	20 / 0.87		0 / 0.00	189 / 3.10		16 / 0.45			0.4				23	149	0	3	23. 6.2	
8-11-64 1345	0.6	69	0.6	6.7	388	6.8 / 8.1		3.26c	21 / 0.91		0 / 0.00	208 / 3.41		11 / 0.31			0.4				22	163	0	3	230.	
9-2-64 1415	0.2	66	0.5	5	387	6.8 / 7.4	34 / 1.70	18 / 1.52	19 / 0.83	2.5 / 0.06	0 / 0.00	207 / 3.39	17 / 0.35	12 / 0.34	1.4 / 0.02		0.4	33	As = 0.01 ABS = 0.2 PO_4 = 0.45	232	20	161	0	1	23. 62.	

o Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
ALTAMONT CREEK AT ALTAMONT TURNOUT OF SOUTH BAY AQUEDUCT (STA. 201)																										
10-28-63																										
1318	33.9				502			2.34c					38 / 0.79	75 / 2.12					ABS = 0.00 As = 0.00	292		117				DWR
12-2-63																			ABS = 0.00							
1430	16.9				526			2.38c					40 / 0.83	77 / 2.17					Cu = 0.00 Zn = 0.00	291		119				
1-6-64																			ABS = 0.00							
1450	48.6				549			2.34c					53 / 1.50	79 / 2.23						282		117				
2-3-64																			ABS = 0.00							
1440					2610			6.31c	455 / 19.79				306 / 6.37	418 / 11.79						1550		316				
3-2-64																										
1615	33.3				786			3.66c					104 / 2.16	122 / 3.44						453		183				
4-1-64																			ABS = 0.00							
1545	2.1				636			3.08c					65 / 1.35	91 / 2.57						352		154				
5-1-64																			ABS = 0.00							
1330					1650			4.88c					91 / 1.89	252 / 7.11						935		244				
6-1-64																			ABS = 0.00							
1700	51.3				408			2.10c					33 / 0.69	54 / 1.52						216		105				
7-1-64																			ABS = 0.00							
1715	55.6				322			1.72c					24 / 0.50	35 / 0.99						178		86				
8-1-64																			ABS = 0.00							
1435	51.9				381			1.72c					23 / 0.48	55 / 1.55						214		86				
9-1-64																			ABS = 0.00							
1615	32.0				576			2.20c					32 / 0.67	107 / 3.02						313		110				

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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TABLE D-2

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs Mean	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by i
							equivalents per million																			
ALAMEDA CREEK NEAR NILES (STA. 73)																										
10/1-10/63	25				674	8.0	38 / 1.90	22 / 1.78	67 / 2.91	4.4 / 0.11	0 / 0.00	178 / 2.92	51 / 1.06	92 / 2.60	4.0 / 0.06	0.3 / 0.02	0.4	20	Fe = 0.01 Color = 2	388[g]	43	184	38			USGS
10/11-19/63	19				681	8.1	39 / 1.95	20 / 1.65	67 / 2.91	5.2 / 0.13	0 / 0.00	174 / 2.85	43 / 0.90	96 / 2.71	3.4 / 0.05	0.3 / 0.02	0.4	18	Fe = 0.01 Color = 6	378[g]	44	180	37			
10/23-31/63	25				593	8.2	32 / 1.60	18 / 1.44	59 / 2.57	4.2 / 0.11	0 / 0.00	158 / 2.59	45 / 0.94	81 / 2.29	3.0 / 0.05	0.3 / 0.02	0.4	18	Fe = 0.01 Color = 2	336[g]	45	152	22			
11/1-7/63	15				619	7.5	38 / 1.90	18 / 1.52	62 / 2.70	3.4 / 0.09	0 / 0.00	171 / 2.80	49 / 1.02	75 / 2.12	2.1 / 0.03	0.0 / 0.00	0.3	15	Fe = 0.01 Color = 5	359[g]	43	171	31			
11/8-13/63	3				849	7.8	56 / 2.79	28 / 2.33	80 / 3.48	5.1 / 0.13	0 / 0.00	246 / 4.03	73 / 1.52	101 / 2.85	6.4 / 0.10	0.1 / 0.01	0.6	12	Fe = 0.00 Color = 10	499[g]	40	256	54			
11/14-20/63	26				766	7.8	53 / 2.64	27 / 2.20	68 / 2.96	5.0 / 0.13	0 / 0.00	238 / 3.90	61 / 1.27	83 / 2.34	6.10 / 0.10	0.2 / 0.01	0.5	12	Fe = 0.00 Color = 15	450[g]	37	242	47			
11/21-30/63	15				654	7.3	40 / 2.00	20 / 1.66	60 / 2.61	8.7 / 0.22	0 / 0.00	172 / 2.82	54 / 1.12	74 / 2.09	17 / 0.27	0.1 / 0.01	0.3	16	Fe = 0.04 Color = 30	390[g]	40	183	42			
12/1-10/63	9				721	7.7	45 / 2.25	20 / 1.67	73 / 3.18	5.1 / 0.13	0 / 0.00	188 / 3.08	61 / 1.27	88 / 2.48	7.8 / 0.13	0.1 / 0.01	0.3	17	Fe = 0.01 Color = 15	424[g]	44	196	42			
12/13-23/63	9				716	7.7	44 / 2.20	21 / 1.72	70 / 3.04	5.4 / 0.14	0 / 0.00	182 / 2.98	65 / 1.35	86 / 2.43	8.4 / 0.14	0.0 / 0.00	0.3	11	Fe = 0.01 Color = 10	412[g]	43	196	47			
12/26-31/63	3				883	8.0	64 / 3.19	33 / 2.69	70 / 3.04	4.9 / 0.13	0 / 0.00	284 / 4.65	88 / 1.83	78 / 2.20	3.4 / 0.05	0.0 / 0.00	0.5	5.8	Fe = 0.00 Color = 10	504[g]	34	294	61			
1/1-9/64	38				678	8.0	41 / 2.05	19 / 1.55	66 / 2.87	4.1 / 0.10	0 / 0.00	160 / 2.62	53 / 1.10	87 / 2.45	6.5 / 0.10	0.2 / 0.01	0.5	17	Fe = 0.01 Color = 5	402[g]	44	180	49			
1/10-20/64	23				658	8.2	37 / 1.85	19 / 1.55	64 / 2.78	3.0 / 0.08	0 / 0.00	148 / 2.43	65 / 1.35	87 / 2.45	4.8 / 0.08	0.1 / 0.01	0.4	16	Fe = 0.00 Color = 5	388[g]	44	170	49			
1/21-31/64	270				410	7.9	33 / 1.65	15 / 1.27	29 / 1.26	3.5 / 0.09	0 / 0.00	150 / 2.46	42 / 0.87	25 / 0.71	5.6 / 0.09	0.2 / 0.01	0.3	15	Fe = 0.04 Color = 30	255[g]	30	146	23			

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated.

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs Mean	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in ppm: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N C ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
							equivalents per million																			
ALAMEDA CREEK NEAR NILES (STA. 73)																										
2/1-8/64	12				671	8.6	52 / 2.59	29 / 2.37	50 / 2.18	3.6 / 0.09	10 / 0.33	220 / 3.61	76 / 1.58	51 / 1.44	4.7 / 0.08	0.1 / 0.01	0.5	12	Fe = 0.00 Color = 5	412[k]	30	248	51			USGS
2/9-15/64	12				914	8.2	66 / 3.29	34 / 2.79	74 / 3.22	4.7 / 0.12	0 / 0.00	282 / 4.62	91 / 1.89	94 / 2.65	8.6 / 0.14	0.2 / 0.01	0.7	14	Fe = 0.00 Color = 5	550[k]	34	304	73			
2/16-29/64	21				827	8.2	49 / 2.45	26 / 2.11	78 / 3.39	3.4 / 0.09	0 / 0.00	192 / 3.15	88 / 1.83	107 / 3.02	4.4 / 0.07	0.2 / 0.01	0.5	13	Fe = 0.00 Color = 4	488[k]	42	228	71			
3/1-13/64	35				828	8.0	45 / 2.25	25 / 2.05	82 / 3.57	3.0 / 0.08	0 / 0.00	159 / 2.61	97 / 2.02	116 / 3.27	5.5 / 0.09	0.3 / 0.02	0.6	12	Fe = 0.01 Color = 15	493[k]	43	215	85			
3/14-23/64	20				795	8.2	46 / 2.30	27 / 2.24	72 / 3.13	3.3 / 0.08	0 / 0.00	193 / 3.16	87 / 1.81	102 / 2.88	5.5 / 0.09	0.2 / 0.01	0.6	16	Fe = 0.02 Color = 10	470[k]	40	227	69			
3/24-31/64	14				705	7.9	34 / 1.70	32 / 2.60	60 / 2.61	3.8 / 0.10	0 / 0.00	191 / 3.13	80 / 1.67	77 / 2.17	6.1 / 0.10	0.3 / 0.02	0.5	18	Fe = 0.19	428[k]	37	215	58			
4/1-8/64	12				842	7.9	56 / 2.79	30 / 2.43	76 / 3.31	4.9 / 0.13	0 / 0.00	236 / 3.87	87 / 1.81	99 / 2.79	7.5 / 0.12	0.3 / 0.02	0.8	13	Fe = 0.02	490[k]	38	261	67			
4/9-19/64	23				718	7.8	45 / 2.25	23 / 1.89	66 / 2.87	3.8 / 0.10	0 / 0.00	175 / 2.87	71 / 1.48	91 / 2.57	6.1 / 0.10	0.3 / 0.02	0.4	16	Fe = 0.02 Color = 15	413[k]	40	207	63			
4/20-30/64	5				779	8.0	57 / 2.84	29 / 2.42	66 / 2.87	3.5 / 0.09	0 / 0.00	249 / 4.08	75 / 1.56	77 / 2.17	2.6 / 0.04	0.3 / 0.02	0.6	10	Fe = 0.02 Color = 15	452[k]	35	263	59			
5/1-10/64	21				802	8.5	54 / 2.69	29 / 2.33	70 / 3.04	5.4 / 0.14	10 / 0.33	216 / 3.54	65 / 1.35	95 / 2.68	6.7 / 0.11	0.2 / 0.01	0.6	12	Fe = 0.01 Color = 7	482[k]	37	252	58			
5/11-20/64	44				541	7.6	33 / 1.65	19 / 1.53	48 / 2.09	3.9 / 0.10	0 / 0.00	148 / 2.43	49 / 1.02	64 / 1.81	4.9 / 0.08	0.1 / 0.01	0.3	13	Fe = 0.01 Color = 7	302[k]	39	159	38			
5/21-30/64	41				498	7.8	34 / 1.70	16 / 1.34	43 / 1.87	3.3 / 0.08	0 / 0.00	147 / 2.41	41 / 0.85	58 / 1.64	4.0 / 0.06	0.2 / 0.01	0.3	17	Fe = 0.01 Color = 6	290[k]	37	152	31			
6/1-10/64	43				473	7.7	31 / 1.55	16 / 1.31	41 / 1.78	2.6 / 0.07	0 / 0.00	136 / 2.23	37 / 0.77	58 / 1.64	3.4 / 0.05	0.1 / 0.01	0.3	14	Fe = 0.01 Color = 5	288[k]	38	143	31			

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc (TTL); or California Department of Water Resources (DWR), as indicated

12505-D-H 8-61 200 JPO

TABLE D-2

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ NC ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
ALAMEDA CREEK NEAR NILES (STA. 73)																										
6/11-20/64	44				485	7.9	30 / 1.50	17 / 1.40	43 / 1.87	3.2 / 0.08	0 / 0.00	138 / 2.26	42 / 0.87	60 / 1.69	2.9 / 0.05	0.1 / 0.01	0.3	14	Fe = 0.01 Color = 7	284[g]	39	145	32			USGS
6/21-30/64	41				461	8.0	29 / 1.45	16 / 1.35	39 / 1.70	2.9 / 0.07	0 / 0.00	142 / 2.33	38 / 0.79	52 / 1.47	3.2 / 0.05	0.2 / 0.01	0.3	17	Fe = 0.02 Color = 4	275[g]	37	140	24			
ALAMEDA CREEK NEAR NILES (STA. 73)																										
10-3-63 1015	28	66	8.8	94	646	8.0 8.2		3.28c	67 / 2.91		0 / 0.00	160 / 2.62		94 / 2.65			0.2				47	164	33	45	23. 23.	USGS
11-7-63 1320	7.8	56	10.5	100	692	7.5 8.2		4.24c	62 / 2.70		0 / 0.00	205 / 3.36		78 / 2.20			0.6				39	212	44	15	6.2 23.	
12-5-63 2000	4.6	45	12.9	106.3	726	8.3 8.3		4.24c	70 / 3.04		3 / 0.10	194 / 3.18		88 / 2.48			0.5		As = 0.01 ABS = 0.0		42	212	48	10	2.3 2.3	
1-9-64 1100	35	42	12.5	99	620	7.9 8.1		2.98c	60 / 2.61		0 / 0.00	128 / 2.10		98 / 2.76			0.5		ABS = 0.1		47	149	44	60	50. 23.	
2-7-64 1030	10	43	11.6	93	780	8.2 8.5		3.80c	58 / 2.52		13 / 0.43	255 / 4.18		62 / 1.75			0.6		ABS = 0.0		30	290	60	15	2.3 23.	
3-5-64 1020	38	53	11.3	103	842	8.2 8.3		4.48c	78 / 3.39		3 / 0.10	159 / 2.61		122 / 3.44			0.6		ABS = 0.0		43	224	89	30	21. 13.	
4-9-64 1130	33	59	10.2	100	779	8.1 8.4		4.40c	74 / 3.22		2 / 0.07	182 / 2.98		103 / 2.91			0.6		ABS = 0.1 As = 0.00		42	220	67	20	23. 23.	
5-5-64 1555	5.4	57	10.5	101	904	8.2 8.1	72 / 3.59	34 / 2.81	76 / 3.31	2.3 / 0.06	0 / 0.00	316 / 5.18	90 / 1.87	90 / 2.54	3.1 / 0.05	0.3 / 0.02	0.9	8.1	ABS = 0.1 PO_4 = 0.85	536	34	320	71	8	23. 2.3	
6-10-64 1730	44	60	9.8	98	448	7.9 8.4		2.66c	42 / 1.83		3 / 0.10	128 / 2.10		51 / 1.44			0.3		ABS = 0.1		41	133	23	55	620. 62.	
7-8-64 1715	41	70	8.5	95	407	8.3 8.4		2.64c	34 / 1.48		3 / 0.10	133 / 2.18		40 / 1.13			0.2		ABS = 0.2		36	132	18	200	23. 62.	

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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32505-D-H 6-61 200 SPO

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
ALAMEDA CREEK NEAR NILES (STA. 73)																										
8-5-64						8.1			46		0	131		65			0.2		ABS = 0.3						130.	USGS
1445	41	79	8.6	105	483	8.2		2.66c	2.00		0.00	2.15		1.83					As = 0.00		43	133	26	80	230.	
9-2-64						8.2	30	17	65	2.8	0	124	38	106	0.4		0.2	10	ABS = 0.2						23.	
1430	31	68	10.6	115	638	8.1	1.50	1.36	2.83	0.07	0.00	2.03	0.79	2.99	0.01				PO_4 = 0.60	347	49	143	41	20	62.	
ARROYO DEL VALLE NEAR LIVERMORE (STA. 71)																										
10-4-63																										
2230	Ponded																									
11-5-63						8.0			88		0	436		105			1.8									USGS
1530	0.1	58	7.5	74	1110	8.1		8.36c	3.83		0.00	7.15		2.96							31	418	60	1		
12-5-63						8.2			196		0	348		108			1.8									
2100	0.1	46	7.3	62	1060	7.4		7.20c	8.53		0.00	5.70		3.05							54	360	85	4		
1-10-64						8.2			50		2	276		48			1.0									
1130	1.4	49	11.8	104	752	8.3		5.78c	2.18		0.07	4.52		1.35							27	289	59	5		
2-3-64						8.2			25		10	216		18			0.4									
1550	15	54	10.4	98	506	8.5		4.44c	1.09		0.33	3.54		0.51							20	222	28	5		
3-2-64						7.9			29		6	230		26			0.6									
1330	4.6	57	10.8	106	557	8.4		4.78c	1.26		0.20	3.77		0.73							21	239	41	15		
4-10-64						8.2			34		8	264		24			0.6									
1030	2.2	60	10.2	104	615	8.4		5.18c	1.48		0.27	4.33		0.68							22	259	29	1		
5-4-64						8.2	62	34	44	1.9	0	318	76	35	0.4	0.3	0.8	18	As = 0.00 ABS = 0.0							
1045	0.8	60	10.5	104	694	8.2	3.09	2.77	1.91	0.05	0.00	5.21	1.58	0.98	0.01	0.02			PO_4 = 0.00	438	24	294	33	3		
6-10-64						8.3			58		3	286		21			1.0									
1830	0.4	66	11.1	121	700	8.3		5.38c	2.52		0.10	4.69		0.59							32	269	30	0		
7-8-64						8.4			60		6	268		50			1.1									
1900	0.4	74	8.9	105	713	8.4		5.12c	2.61		0.20	4.39		1.41							31	256	26	1		

o Field pH.

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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TABLE D-2

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform h MPN/ml	Analyzed by i
ARROYO OEL VALLE NEAR LIVERMORE (STA. 71)																										
8-5-64 1700	Ponded																									
9-1-64 1150	Ponded																									
DENNISTON CREEK (STA. 252)																										
10-8-63 1535	2	70	9.8		261	7.8 / 7.7	17 / 0.85	7.9 / 0.65	24 / 1.04	0.8 / 0.02	0 / 0.00	89 / 1.46	8.6 / 0.18	31 / 0.87	0.2 / 0.00	0.4 / 0.02	0.02	19		153	41	75	2			DWR
10-17-63 1330					260									40								80				Field determinations
11-14-63 1200	2.25	58	9.1		266	6.7 / 7.7	21 / 1.05	6.4 / 0.53	23 / 1.00	0.8 / 0.02	0 / 0.00	88 / 1.44	10 / 0.21	32 / 0.90	1.2 / 0.02		0.0			131	38	79	7			DWR
11-27-63					257									40								85				Field determinations
12-12-63 1455	1.5	47	10.9		275	7.2 / 7.6	21 / 1.05	6.9 / 0.57	23 / 1.00	0.6 / 0.02	0 / 0.00	89 / 1.46	9.5 / 0.20	33 / 0.93	0.4 / 0.01	0.3 / 0.02	0.04	20	Fe = 0.00	159	38	81	8			DWR
12-31-63 1000					265									40								80				Field determinations
1-13-64 1100	2.00	46	10.9		273	7.3											0.2			156		80				DWR
1-27-64 0941					265									40								90				Field determinations

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-Dir 6-61 200 SPO

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
							equivalents per million																			
DENNISTON CREEK (STA. 252)																										
2-17-64						7.2	22	5.8	24	0.6	0	81	12	32	4.3		0.0		ABS = 0.0							
1220	1	52	10.6		268	7.5	1.10	0.48	1.04	0.02	0.00	1.33	0.25	0.90	0.07					153	39	79	13			DWR
2-28-64														36												
					300																	80				Field determinations
3-23-64						7.5											0.0									
1430	1.5	55	11.5		262															156		78		6.5		DWR
3-27-64														36												
					275																	85				Field determinations
4-20-64																	0.0		ABS = 0.0							
	1	58			292															162		84		8.0		DWR
4-24-64														32												
					282																	72				Field determinations
5-11-64						7.3											0.0									
1340	2	63	9.6		292															170		82		3.25		DWR
PURISIMA CREEK (STA. 257)																										
10-9-63						8.1	84	22	30	3.4	0	318	72	26	0.1	0.4	0.08	24								
1415	1.1	62	9.3		681	8.3	4.19	1.84	1.30	0.09	0.00	5.21	1.50	0.73	0.00	0.02				418	18	302	41			DWR
11-14-63						8.2	85	19	29	3.1	0	304	67	23	0.9		0.1									
1250	1.8	58	9.7		654	8.2	4.24	1.55	1.26	0.08	0.00	4.98	1.39	0.65	0.01					380	18	290	41			
12-12-63						8.1	88	20	31	2.5	0	311	74	26	0.2	0.4	0.09	21	Fe = 0.00							
1340	1.2	45	11.6		680	8.2	4.39	1.64	1.35	0.06	0.00	5.10	1.54	0.73	0.00	0.02				424	18	302	47			
1-13-64						8.2	88	22	32	2.4	0	320	76	26	0.4	0.4	0.1	19								
1130	1.1	45	11.9		695	8.2	4.39	1.80	1.39	0.06	0.00	5.24	1.58	0.73	0.01	0.02				445	18	310	48			

o Field pH.

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 GPO

TABLE D-2

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by [i]
							Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents							
			ppm	%Sat			equivalents per million															Total ppm	N.C. ppm			
							PURISIMA CREEK (STA. 257)																			
2-17-64						7.3											0.1		ABS = 0.0							DWR
1415	1.5	52	11.2		642	8.3	B5 / 4.24	18 / 1.49	27 / 1.17	2.4 / 0.06	0 / 0.00	282 / 4.62	73 / 1.52	26 / 0.73	4.2 / 0.07					386	17	287	56			
3-23-64						8.2											0.1									
1530	1.8	48	11.3		619															372		267		3.2		
4-20-64						8.4											0.1		ABS = 0.0							
1300	0.8	53	11.2		676	8.3	87 / 4.34	17 / 1.41	31 / 1.35	2.8 / 0.07	0 / 0.00	311 / 5.10	67 / 1.39	26 / 0.73	1.4 / 0.02					423	19	288	33	3.0		
5-11-64						8.4											0.1									
1500	0.7	58	10.0		682															428		300		1.5		
							PURISIMA CREEK (STA. 258)																			
2-28-64						8.6											0.1									DWR
1200					764		83 / 4.14	22 / 1.83	47 / 2.04	2.8 / 0.07	10 / 0.33	256 / 4.20	101 / 2.10	52 / 1.47	1.2 / 0.02					499	25	299	72			
4-24-64																	0.2									
1030					852															530		314				
5-11-64						8.2											0.2									
		56	10.3		857	8.3	86 / 4.29	25 / 2.06	56 / 2.44	4.4 / 0.11	0 / 0.00	294 / 4.82	102 / 2.12	62 / 1.75	5.0 / 0.08					536	27	318	77			
							SAN GREGORIO CREEK (STA. 265)																			
10-9-63						7.9											0.47									DWR
1215	2	65	9.3		1010															636		360				
11-14-63						8.1								82			0.5		ABS = 0.0							
1320	4	61	9.3		964																	339				
12-12-63						8.1											0.41									
1400	1	42	12.8		935															594		326				

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Technical Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million / equivalents per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
			ppm	%Sat			Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents			Total ppm	N.C. ppm			
SAN GREGORIO CREEK (STA. 265)																									
1-13-64						8.2											0.5								DWR
1200	1	42	13.2		986															604		349			
2-17-64						8.1											0.3		ABS = 0.0						
1615	5	49	11.7		883															543		321			
3-23-64						8.1	60	25	57	3.2	0	209	120	54	0.8		0.3								
1600	5	52	11.0		748		2.99	2.06	2.48	0.08	0.00	3.42	2.50	1.52	0.01					465	32	253	82	60		
4-20-64						8.3											0.4		ABS = 0.0						
1330	1	60	10.9		976															623		346		3.8		
5-11-64						8.4											0.4								
1530	1	65	9.8		986															635		345		1.5		
LOS GATOS CREEK NEAR LOS GATOS (STA. 74)																									
10-3-63						8.0			12		0	176		9.0			0.0							6.2	USGS
1910	130	68	8.8	98	383	8.1		3.50c	0.52		0.00	2.88		0.25						13		175	31	8	0.23	
11-8-63						7.3			18		1	261		14			0.2							230.	
1335	0.3	59	8.8	88	589	8.3		3.42c	0.78		0.03	4.28		0.39						13		271	55	15	23.	
12-4-63						8.0			11		0	148		6.0			0.1		As = 0.00					6.2	
1910	59	49	11.3	99	330	8.0		3.00c	0.48		0.00	2.43		0.17						14		150	29	40	6.2	
1-7-64						8.1			13		14	152		3.0			0.1							2.3	
1130	80	47	11.6	100	381	8.6		3.54c	0.57		0.47	2.49		0.08						14		177	29	25	0.62	
2-6-64						8.2			12		0	122		7.8			0.1							6.2	
1145	23	48	11.7	102	335	8.2		2.92c	0.52		0.00	2.00		0.22						15		146	46	110	23.	
3-5-64						8.2			15		2	171		12			0.2							2.3	
1200	18	53	11.5	107	454	8.3		4.32c	0.65		0.07	2.80		0.34						13		216	72	60	0.23	
4-7-64						8.4			23		5	246		15			0.1							23.	
1045	8.3	59	11.1	111	636	8.5		5.98c	1.00		0.17	4.03		0.42						14		299	89	8	13.	

a Field pH.

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

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32505-D-H 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
LOS GATOS CREEK NEAR LOS GATOS (STA. 74)																										
5-6-64						8.2	83	31	25	2.8	4	286	116	16	1.1	0.3	0.1	16	As = 0.00 ABS = 0.1						2.3	USGS
1040	1.5	58	10.6	105	685	8.4	4.14	2.58	1.09	0.07	0.13	4.69	2.42	0.45	0.02	0.02			PO_4 = 0.00	451	14	336	95	105	2.3	
6-10-64						8.3			20		10	202		12			0.1								62.	
1010	5.7	60	9.6	98	524	8.6		4.88c	0.87		0.33	3.31		0.34							15	244	62	40	23.	
7-8-64						8.4			32		8	336		18			0.1								13.	
1000	60	72	8.5	99	807	8.4		8.04c	1.39		0.27	5.51		0.51							15	402	113	220	6.2	
8-6-64						8.3			33		4	388		22			0.2								23.	
1000	0.5	68	9.5	106	863	8.4		8.64c	1.44		0.13	6.36		0.62							14	432	107	5	62.	
9-3-64						8.0	125	20	28	3.0	0	351	131	16	0.4		0.3	15	As = 0.00 ABS = 0.1						2.3	
1100	0.5	68	9.7	108	785	8.1	6.24	1.62	1.22	0.08	0.00	5.75	2.73	0.45	0.01				PO_4 = 0.05	525	13	393	105	1	6.2	
PESCADERO CREEK (STA. 256)																										
10-9-63						7.8	60	27	60	4.6	0	290	73	63	0.1	0.4	0.58	26								DWR
1100	5	63	9.0		774	8.2	2.99	2.24	2.61	0.12	0.00	4.75	1.52	1.78	0.00	0.02				476	33	262	24			
10-17-63														70												Field determinations
1010	4.5				630																	230				
11-14-63						8.2	62	19	49	3.5	0	234	77	48	0.7		0.4									DWR
1415	9	59	9.9		666	8.3	3.09	1.59	2.13	0.09	0.00	3.84	1.60	1.35	0.01					386	31	234	42			
11-27-63														40												Field determinations
1205	18				500																	205				
12-12-63						7.7	65	17	46	2.8	0	233	79	44	0.4	0.4	0.39	21	Fe = 0.15							DWR
1030	8	38	12.8		658	8.0	3.24	1.42	2.00	0.07	0.00	3.82	1.64	1.24	0.01	0.02				401	30	233	42			
12-31-63														55												Field determinations
1100	6.6				672																	255				

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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32505-D-81 6-61 200 SPO

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
							equivalents per million																			
PESCADERO CREEK (STA. 256)																										
1-13-64						8.2	69	19	55	3.0	0	255	81	51	0.1	0.4	0.4	19	ABS = 0.0							DWR
1300	5.5	41	14.3		712	8.2	3.44	1.59	2.39	0.08	0.00	4.18	1.69	1.44	0.00	0.02				434	32	252	43			
1-27-64														32												Field determinations
1143	43				450																	185				
2-18-64						7.6	63	18	37	2.8	0	213	78	38	5.7		0.3		ABS = 0.0							DWR
0950	14.5	42	12.7		621	8.0	3.14	1.46	1.61	0.07	0.00	3.49	1.62	1.07	0.09					364	26	230	55			
2-28-64														50												Field determinations
1300	11.4				570																	240				
3-23-64						8.1	50	13	35	2.9	0	159	76	30	0.6		0.2									DWR
1630	28.2	48	11.2		518	7.9	2.50	1.04	1.52	0.07	0.00	2.61	1.58	0.85	0.01					310	30	177	47	160		
3-27-64														42												Field determinations
1230	14				560																	220				
4-20-64						8.2											0.4		ABS = 0.0							DWR
1430	5.5	59	10.9		695															422		240		4.5		
4-24-64														52												Field determinations
	5				600																	240				
5-11-64						8.4											0.5									DWR
1630	4.5	66	10.0		710															437		243		2.7		
BUTANO CREEK (STA. 249)																										
10-9-63						7.3											0.17									DWR
0930	2	61	7.7		458															267		140				

o Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

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32505-D-H 6-61 200 3P0

TABLE D-2

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
BUTANO CREEK (STA. 249)																										
11-14-63 1545	10	58	9.1		358	7.6											0.1			185		120				DWR
12-12-63 1125	4	41	11.9		431	7.3											0.12			246		135				
1-13-64 1320	3	45	10.9		539	8.1											0.4			304		160				
2-18-64 1055	5.5	47	11.1		404	7.4											0.1		ABS = 0.0	249		127				
3-23-64 1700	10.1	50	11.0		319	7.5 / 7.4	26 / 1.30	8.3 / 0.68	22 / 0.96	2.8 / 0.07	0 / 0.00	101 / 1.66	26 / 0.54	24 / 0.68	0.9 / 0.01		0.1			190	32	99	16	330		
4-20-64 1520	1.8	52	8.5		472	7.8											0.2			272		137		45		
5-11-64 1705	1.5	57	8.0		442	7.5											0.1			257		134		40		
BUTANO CREEK (STA. 250)																										
4-20-64 1600	0.8				407														ABS = 0.00	238		138		33		DWR
COYOTE CREEK NEAR MADRONE (STA. 82)																										
10-3-63 1120	7.7	68	8.6	95	339	7.9 / 8.3		2.96[c]	14 / 0.61		2 / 0.07	160 / 2.62		11 / 0.31			0.0				17	148	14	1	6.3 / 2.3	USGS

a Field pH.

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-041 6-61 200 SPO

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonates (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chlorides (Cl)	Nitrates (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by i
COYOTE CREEK NEAR MADRONE (STA. 82)																										
11-7-63						7.4			16		2	174		10			0.1								23.	
1140	20	63	10.5	110	375	8.3		3.30c	0.70		0.07	2.85		0.28							18	165	19	1	62.	USGS
12-5-63						8.4			17		4	176		9.0			0.0								13.	
1330	24	55	11.1	105	379	8.4		3.40c	0.74		0.13	2.88		0.25							18	170	19	2	23.	
1-9-64						8.3			17		6	178		11			0.1								1.3	
1245	37	55	11.4	108	388	8.6		3.46c	0.74		0.20	2.92		0.31							18	173	17	1	6.2	
2-5-64						8.3			18		8	156		12			0.1								5.	
1120	16	52	12.2	111	365	8.6		3.18c	0.78		0.27	2.56		0.34							20	159	18	15	6.2	
3-4-64						8.4			17		9	175		12			0.2								23.	
1030	6.8	51	12.8	115	401	8.5		3.62c	0.74		0.30	2.87		0.34							17	181	23	15	6.2	
4-9-64						8.2			16		5	186		12			0.6								230.	
1330	88	57	13.4	130	403	8.5		3.56c	0.70		0.17	3.05		0.34							16	178	17	1	62.	
5-7-64						8.2	46	15	17	1.8	0	191	38	12	1.0	0.2	0.1	8.8	As = 0.01							
1345	102	57	11.4	111	404	8.2	2.30	1.24	0.74	0.05	0.00	3.13	0.79	0.34	0.02	0.01			ABS = 0.0 PO_4 = 0.00	238	17	177	20	2	2.3 .62	
6-9-64						8.2			19		7	185		10			0.3								620.	
1015	110	59	9.6	96	424	8.6		3.84c	0.83		0.23	3.03		0.28							18	192	29	3	6.2	
7-7-64						8.4			9.0		9	202		13			0.2								62.	
1300	75	75	9.3	111	452	8.6		4.10c	0.39		0.30	3.31		0.37							9	205	25	5	23.	
8-5-64						8.2			28		9	264		20			0.2								62.	
1315	1.3	80	8.7	109	377	8.5		3.24c	1.22		0.30	4.33		0.56							19	262	31	5	62.	
9-4-64						8.4	54	33	32	2.5	6	274	65	25	0.6		0.2	6.0	As = 0.00 ABS = 0.1						23.	
1155	0.6	72	13.0	150	615	8.4	2.69	2.75	1.39	0.06	0.20	4.49	1.35	0.71	0.01				PO_4 = 0.05	367	20	272	37	2	23.	
GAZOS CREEK (STA. 253)																										
10-10-63						7.4											0.18									DWR
1000	1.5	55	9.5		375															221		109				

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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32505-0-61 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %oSat	Specific conductance (micromhos at 25°C)	pH o/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform MPN/ml	Analyzed by i
							equivalents per million																			
GAZOS CREEK (STA. 253)																										
11-14-63 1700	4	58	9.5		333	7.4											0.1			179		102				DWR
12-12-63 0930	1	39	12.6		355	7.4											0.09			208		105				
1-13-64 1500	1	45	12.4		373	7.7 / 7.9	25 / 1.25	12 / 0.97	30 / 1.30	2.2 / 0.06	0 / 0.00	109 / 1.79	42 / 0.87	32 / 0.90	0.1 / 0.00	0.2 / 0.01	0.1	18		223	36	111	22			
2-18-64 1210	2	45	12.3		331	7.2											0.1		ABS = 0.0	192		97				
3-23-64 1730	4	51	10.7		336	7.4											0.2			221		97		32		
4-20-64 1640	1	56	10.3		364	7.8											0.1		ABS = 0.0	217		106		3.6		
5-11-64 1755	1	57	10.0		370	8.1											0.1			218		106		5.1		
WHITEHOUSE CREEK (STA. 266)																										
10-10-63 1045	0.1	58	7.0		507	7.2											0.28			300		133				DWR
11-14-63 1600	1.5	58	8.3		519	7.6											0.2			291		139				
12-12-63 0915	0.3	41	11.9		475	7.3											0.19			283		126				
1-13-64 1600	0.3	45	11.0		636	7.3											0.3			357		176				
2-18-64 1250	0.5	47	11.5		390	7.3											0.1		ABS = 0.0	233		101				

o Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 SPO

ANALYSES OF SURFACE WATER

SAN FRANCISCO BAY REGION (NO. 2)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
WHITEHOUSE CREEK (STA. 266)																										
3-23-64 1750	1	50	10.5		398	7.3											0.2			266		101		70		DWR
4-20-64 1705	0.3	53	10.0		475	7.4											0.2		ABS = 0.0	282		124		20		
5-11-64 1800	0.3	54	9.0		550	7.3											0.2			320		143		32		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-E 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
							Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)								
			ppm	%Sat			equivalents per million														Total ppm	N.C. ppm			
SAN LORENZO RIVER SIX MILES NORTH OF BOULDER CREEK (STA. 228)																									
10-7-63 1220	1	57	9.8	94	552	8.0 / 8.2		5.00c	24 / 1.04		0 / 0.00	261 / 4.28		13 / 0.37	0.8 / 0.01				Fe = 0.03 PO_4 = 0.66	355		250				DWR
11-6-63 1500	4	51	10.0	90	444	8.4 / 8.0		3.84c	18 / 0.78		0 / 0.00	184 / 3.02		12 / 0.34	0.7 / 0.01				Fe = 0.02 Mn = 0.00 ABS = 0.0 PO_4 = 0.51	285		192				
12-10-63 0915	2	41	11.3	88	534	7.9									0.0 / 0.00				PO_4 = 0.39	345						
1-14-64 0905	1.5	40	12.0	92	550	8.0 / 8.2		4.92c			0 / 0.00	250 / 4.10		15 / 0.42	0.4 / 0.01				PO_4 = 0.50	355		246				
2-19-64 0840	2	45			536	7.5 / 8.1		4.76c			0 / 0.00	235 / 3.85		16 / 0.45	0.2 / 0.00				Color = 0 PO_4 = 0.45	345		238				
3-24-64 0930	3	42	12.0	95	493	8.1 / 8.0		4.30c			0 / 0.00	204 / 3.34		15 / 0.42	1.0 / 0.02				PO_4 = 0.48	320		215		40		
4-21-64 0930	2	47	11.6	98	549	8.4 / 8.1		4.86c			0 / 0.00	252 / 4.13		16 / 0.45	1.2 / 0.02				Fe = 0.03 PO_4 = 0.49	355		243		3.2		
5-12-64 0910	1	50	10.2	90	559	8.3 / 8.3		4.98c			2 / 0.07	254 / 4.16		16 / 0.45	0.4 / 0.01				PO_4 = 0.55	360		249		1.3		
6-25-64 0755	1.5	59	8.9	88	562	7.8 / 8.4		4.98c	24 / 1.04		2 / 0.07	258 / 4.23		15 / 0.42	1.8 / 0.03				PO_4 = 0.58	360		249		1.5		
7-21-64 0730	1	56	8.1	77	564	7.5 / 8.7		5.07c			16 / 0.53	237 / 3.88		15 / 0.42	0.0 / 0.00				PO_4 = 0.58	365		254		0.6		
8-18-64 1315	0.8	62	9.7	99	564	8.2								14 / 0.39	0.4 / 0.01				ABS = 0.0 PO_4 = 0.64	365				0.1		
9-23-64 0810	0.5	55	9.1	86	573	8.0		4.98c						9.3 / 0.26	1.1 / 0.02				PO_4 = 0.70	370		249		1.5		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-8 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N C ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
BEAR CREEK FOUR MILES NORTHEAST OF BOULDER CREEK (STA. 206)																										
10-7-63						7.7			42		0	245		27	0.8				Fe = 0.03							DWR
0820	0.5	55	9.4	88	669	8.2		5.31c	1.83		0.00	4.02		0.76	0.01				PO_4 = 0.27	435		266				
11-6-63						7.9			26		0	154		16	0.6				Fe = 0.08							
1430	3	52	10.1	92	505	7.9		4.02c	1.13		0.00	2.52		0.45	0.01				Mn = 0.00 ABS = 0.0 PO_4 = 0.27	330		201				
12-9-63						8.1									0.0											
1530	2	47	10.9	93	581										0.00				PO_4 = 0.22	380						
1-14-64						7.9					0	217		20	0.4											
1100	1	40	12.6	97	614	8.3		5.03c			0.00	3.56		0.56	0.01				PO_4 = 0.20	400		252				
2-19-64						7.6					0	195		17	0.5											
1050	2	44			591	8.2		4.84c			0.00	3.20		0.48	0.01				PO_4 = 0.21	385		242				
3-24-64						8.1					0	172		14	1.3											
1600	3	47	11.3	96	514	7.9		4.10c			0.00	2.82		0.39	0.02				PO_4 = 0.22	335		205		5.5		
4-21-64						8.3					0	214		20	1.3											
1445	1.5	51	10.7	96	607	8.0		4.84c			0.00	3.51		0.56	0.02				PO_4 = 0.23	395		242		2.5		
5-12-64						8.2					2	218		22	0.0											
1400	1.5	63	9.9	102	624	8.3		4.98c			0.07	3.57		0.62	0.00				PO_4 = 0.28	405		249		1.5		
6-24-64						7.7			38		4	225		28	1.0											
1220	1	70	9.0	100	644	8.4		5.05c	1.65		0.13	3.69		0.79	0.02				PO_4 = 0.21	420		253		2.0		
7-21-64						7.6					0	251		36	0.0											
0945	1	60	9.5	95	711	8.3		5.31c			0.00	4.11		1.02	0.00				PO_4 = 0.20	465		266		0.8		
8-18-64						7.9								89	0.4				ABS = 0.0							
0945	0.8	59	8.9	88	905									2.51	0.01				PO_4 = 0.25	590				0.5		
9-23-64						7.9								82	2.5											
1200	0.5	60	9.3	93	818			5.41c						2.31	0.04				PO_4 = 1.4	530		271		1.8		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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3250-D-H 6-61 200 SPO

TABLE D-2
ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
			ppm	%Sat			Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents				Total ppm	N.C. ppm			
KINGS CREEK TWO MILES NORTH OF BOULDER CREEK (STA. 213)																									
10-7-63						8.1			44		0	231		36	0.6										DWR
1320	0.5	60	9.6	96	659	8.1		5.03c	1.91		0.00	3.79		1.02	0.01				PO_4 = 0.31	425		252				
11-7-63						7.8			30		0	168		26	0.5		0.2		Fe = 0.03							
0845	2	47	10.7	90	570	8.0		4.44c	1.30		0.00	2.75		0.73	0.01				ABS = 0.0	370		222				
																			PO_4 = 0.32							
12-10-63						7.7																				
0935	1	39	12.0	91	613															400						
1-14-64						7.8					0	215		30	0.8											
0930	0.5	35	13.0	93	667	8.2		5.21c			0.00	3.52		0.85	0.01				PO_4 = 0.21	430		261				
3-24-64						7.8					0	171		24	0.3											
0940	2	44	12.3	100	553	8.0		4.30c			0.00	2.80		0.68	0.00				PO_4 = 0.19	360		215		3.2		
4-21-64						8.0					0	212		32	0.1											
1000	0.8	49	12.6	110	659	8.1		5.07c			0.00	3.47		0.90	0.00				PO_4 = 0.24	425		254		2.7		
5-12-64						7.8					0	219		34	0.0											
0945	0.5	52	10.0	91	674	8.2		5.13c			0.00	3.59		0.96	0.00				PO_4 = 0.26	435		257		1.2		
6-25-64						7.9			44		0	233		40	1.0											
0840	0.5	62	7.9	81	698	8.1		5.25c	1.91		0.00	3.82		1.13	0.02				PO_4 = 0.01	455		263		2.5		
7-21-64						7.3					0	242		47	0.0											
0815	0.5	60	8.0	80	760	8.2		5.53c			0.00	3.97		1.32	0.00				PO_4 = 0.27	490		277		1.2		
8-18-64						7.8								54	0.2				ABS = 0.0							
1250	0.1	68	8.0	87	829									1.52	0.00				PO_4 = 0.32	540				1.3		
9-23-64						7.7								29	1.5											
0830	0.1	53	7.1	65	864			5.83c						0.82	0.02				PO_4 = 0.46	560		292		3.8		

o Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 SPO

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N C ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by i
TWO BAR CREEK ONE MILE NORTH OF BOULDER CREEK (STA. 232)																										
10-7-63						7.3			60		0	182		40	0.7				Fe = 0.26							DWR
1430	0.1	57	7.6	73	640	8.0		3.84c	2.61		0.00	2.98		1.13	0.01				PO_4 = 0.23	405		192				
11-7-63						7.6			4.0		0	126		29	0.2		0.1		Fe = 0.18							
0915	0.5	48	10.3	89	539	8.0		3.52c	1.74		0.00	2.06		0.82	0.00				ABS = 0.0	340		176				
																			PO_4 = 0.23							
12-10-63						7.4																				
1000	0.5	41	11.5	90	505															320						
1-14-64						7.5																				
0955	0.3	38	11.8	88	548															350						
3-24-64						7.3					0	104		23	0.8											
1015	0.5	44	11.7	95	463	7.6		2.94c			0.00	1.70		0.65	0.01				PO_4 = 0.14	295		147		28		
4-21-64						7.7					0	147		30	0.3											
1030	0.3	47	11.1	94	563	7.9		3.62c			0.00	2.41		0.85	0.00				PO_4 = 0.14	360		181		4.2		
5-12-64						7.7					0	160		32	0.3											
1010	0.3	52	9.9	90	592	8.1		3.76c			0.00	2.62		0.90	0.00				PO_4 = 0.17	375		188		2.8		
7-21-64						7.3					0	190		42	0.5											
0850	0.3	67	8.1	87	640	8.2		3.86c			0.00	3.11		1.18	0.01				PO_4 = 0.25	405		193		0.9		
8-18-64						7.9								47	1.6				ABS = 0.0							
1230	0.1	65	8.1	86	684									1.32	0.02				PO_4 = 0.27	435				2.1		
9-23-64						7.6								26	1.2											
0855	0.1	54	6.7	62	7.8			4.08c						0.73	0.02				PO_4 = 0.32	455		204		2.0		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32535-D-E 6-61 200 SPO

TABLE D-2
ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million / equivalents per million											Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
			ppm	%Sat			Calcium (Ca)	Magnesium (Mg)	Sodium (No)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)				Total ppm	N C ppm			
BEAR CREEK AT BOULDER CREEK (STA. 205)																								
10-7-63						7.9			43		0	219		32	1.0										
0915	1	55	9.5	89	626	8.1		4.62c	1.87		0.00	3.59		0.90	0.02				PO_4 = 0.32	405		231			DWR
11-6-63						7.8			22		0	100		14	1.4		0.1		Fe = 0.24						
1400	5	52	10.0	91	400	7.8		2.90c	0.96		0.00	1.64		0.39	0.02				ABS = 0.0	260		145			
																			PO_4 = 0.42						
12-9-63						7.7									0.0										
1600	3	46	11.3	95	559										0.00				PO_4 = 0.19	360					
1-14-64						8.0					0	195		24	0.5										
1140	2	39	12.6	96	580	8.1		4.52c			0.00	3.20		0.68	0.01				PO_4 = 0.25	375		226			
2-19-64						7.4					0	170		21	0.5				Color = 0						
1030	4	42			551	8.2		4.20c			0.00	2.79		0.59	0.01				PO_4 = 0.16	355		210			
3-24-64						8.1					0	151		19	0.5										
1140	5	45	12.2	101	484	7.8		3.62c			0.00	2.47		0.54	0.01				PO_4 = 0.18	310		181		9.5	
4-21-64						8.2					0	194		25	2.0										
1230	3	52	12.0	109	587	8.0		4.36c			0.00	3.18		0.70	0.03				PO_4 = 0.19	380		218		3.8	
5-12-64						8.2					0	200		28	0.0										
1325	2.5	59	10.7	106	593	8.3		4.42c			0.00	3.28		0.79	0.00				PO_4 = 0.25	380		221		2.8	
6-24-64						7.7			38		2	209		34	0.9										
1015	2	63	9.2	95	608	8.4		4.48c	1.65		0.07	3.42		0.96	0.01				PO_4 = 0.23	390		224		1.5	
7-21-64						7.6					0	222		42	0.0										
1015	3	61	8.8	89	656	8.2		4.58c			0.00	3.64		1.18	0.00				PO_4 = 0.32	420		229			
8-18-64						7.8																			
1030	1	61	8.9		650		Sample broken by laboratory													420				0	
9-23-64						7.8								31	0.8										
1010		55	8.4		706			4.58c						0.87	0.01				PO_4 = 0.32	455		229		0.5	

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-8 6-62 200 SPO

TABLE B-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
							equivalents per million																			
BOULDER CREEK AT BOULDER CREEK (STA. 208)																										
10-7-63						7.7			10		0	99		7.4	0.7				Fe = 0.02							DWR
1105	3	57	9.8	94	207	7.5		1.64c	0.43		0.00	1.62		0.21	0.01				PO_4 = 0.19	135		82				
11-6-63						7.4			10		0	57		8.8	0.5				ABS = 0.0							
1330	12	53	10.3	95	166	7.5		1.18c	0.43		0.00	0.93		0.25	0.01				PO_4 = 0.21	105		59				
12-10-63						7.4									0.2											
1110	8	46	11.5	97	205										0.00				PO_4 = 0.07	130						
1-14-64						7.7					0	85		9.9	1.2											
1245	7	43	12.2	98	208	7.8		1.58c			0.00	1.39		0.28	0.02				PO_4 = 0.09	135		79				
2-19-64						7.4					0	80		8.8	0.3				Color = 0							
0955	8	45			198	7.8		1.46c			0.00	1.31		0.25	0.00				PO_4 = 0.08	130		73				
3-24-64						7.6					0	66		8.3	1.5											
1020	10	46	12.5	105	185	7.3		1.30c			0.00	1.08		0.23	0.02				PO_4 = 0.08	120		65		9.5		
4-21-64						7.9					0	87		9.5	0.1											
1130	5	52	11.5	104	207	7.7		1.56c			0.00	1.42		0.27	0.00				PO_4 = 0.08	135		78		4.0		
5-12-64						7.9					0	92		9.7	0.2											
1100	3	54	10.5	98	214	8.0		1.62c			0.00	1.51		0.27	0.00				PO_4 = 0.18	140		81		0.05		
6-24-64						7.3			11		0	102		11	1.1											
0950	4	62	9.0	92	235	8.0		1.72c	0.48		0.00	1.67		0.31	0.02				PO_4 = 0.13	150		86		1.5		
7-21-64						7.5					0	107		5.9	0.0											
1045	4	60	9.3	93	235	8.0		1.76c			0.00	1.75		0.17	0.00				PO_4 = 0.20	150		88		2.5		
8-18-64						8.0								12	1.4				ABS = 0.0							
1140	5	63	9.6	99	245									0.34	0.02				PO_4 = 0.25	160				0.8		
9-23-64						7.6								11	1.0											
0955	4	57	9.7	94	242			1.88c						0.31	0.02				PO_4 = 0.25	155		94		2.9		

a Field pH.

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

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32505-D-H 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
			ppm	%Sat			Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents				Total ppm	N.C. ppm			
							equivalents per million																			
SAN LORENZO RIVER AT BOULDER CREEK (STA. 227)																										
10-7-63						8.0			53		0	239		68	0.8				Fe = 0.17							DWR
1015	2	57	9.5	92	731	8.1		5.13c	2.30		0.00	3.92		1.92	0.01				PO_4 = 0.36	455		257				
11-6-63						7.7			21		0	86		21	1.7		0.1		Fe = 0.30							
1400	10	51	10.0	90	365	7.7		2.54c	0.91		0.00	1.41		0.59	0.03				ABS = 0.0	225		127				
																			PO_4 = 0.63							
12-9-63						7.7									0.2											
1550	6	46	11.3	95	582										0.00				PO_4 = 0.21	360						
1-14-64						7.9					0	195		44	0.5											
1125	4	39	12.9	98	628	8.1		4.60c			0.00	3.20		1.24	0.01				PO_4 = 0.23	390		230				
2-19-64						7.6					0	166		35	0.5				Color = 0							
1020	6	42			569	8.2		4.20c			0.00	2.72		0.99	0.01				PO_4 = 0.20	350		210				
3-24-64						8.0					0	146		29	0.6											
1130	8	46	12.2	102	496	7.8		3.56c			0.00	2.39		0.82	0.01				PO_4 = 0.21	310		178		9.5		
4-21-64						8.2					0	195		46	0.0											
1145	3	52	12.2	111	627	8.1		4.48c			0.00	3.20		1.30	0.00				PO_4 = 0.23	390		224		3.0		
5-12-64						8.2					0	204		52	0.0											
1300	2	60	10.7	107	654	8.3		4.58c			0.00	3.34		1.47	0.00				PO_4 = 0.34	405		229		2.6		
6-25-64						7.7			48		0	219		59	1.2											
0950	2	64	8.3	87	689	8.2		4.76c	2.09		0.00	3.59		1.66	0.02				PO_4 = 0.23	430		238		2.5		
9-24-64						7.8								66	2.3											
1500	2	64	8.5	89	924			3.39c						1.86	0.04				PO_4 = 0.32	575		270		2.8		
ALBA CREEK (STA. 245)																										
10-10-63						6.8																				DWR
1400	0.1	58	8.0	78	228																					

a Field pH.

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 SPO

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by i
							equivalents per million																			
ALBA CREEK (STA. 245)																										
11-7-63 1130	0.5	51	10.7	96	190	7.8																				DWR
12-10-63 1250	0.1	47	10.1	86	177	6.8																				
1-14-64 1420	0.1	46	10.4	87	206	6.8																				
3-25-64 1015	0.1	47	11.5	98	161	7.1		1.14c			0 / 0.00	64 / 1.05		8.2 / 0.23	1.3 / 0.02				PO_4 = 0.30			57		7.5		
CLEAR CREEK AT BROOKDALE (STA. 210)																										
10-8-63 0830	0.5	56	9.9	94	189	7.5														125						DWR
11-7-63 1050	1	52	10.7	97	176	7.6														115						
12-10-63 1135	1	48	11.3	97	170	7.4														115						
1-14-64 1405	1	48	11.5	99	162	7.4														110						
3-24-64 1645	1	47	11.7	99	162	7.4 / 7.5		1.22c			0 / 0.00	80 / 1.31		6.2 / 0.17	1.2 / 0.02				PO_4 = 0.02	110		61		0.7		
4-22-64 0845	0.5	48	11.4	98	173	7.7 / 7.6		1.30c			0 / 0.00	89 / 1.46		6.4 / 0.18	0.4 / 0.01				PO_4 = 0.04	115		65		0.0		
5-12-64 1440	0.5	56	10.3	98	181	7.7 / 7.9		1.36c			0 / 0.00	92 / 1.51		7.0 / 0.20	0.0 / 0.00				PO_4 = 0.07	120		68		0.05		
9-23-64 1240	0.3	61	9.3	93	213	7.6		1.56c						9.1 / 0.26	1.5 / 0.02				PO_4 = 0.08	140		78		0.9		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH [a] / [b]	Mineral constituents in parts per million / equivalents per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform [h] MPN/ml	Analyzed by [i]
			ppm	%Sat			Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents				Total ppm	N.C. ppm			
																			SOULDER CREEK (STA. 247)						
10-10-63						7.1																			DWR
1220	0.3	56	4.2	40	289																				
11-7-63						7.3																			
0940	1	49	10.4	91	284																				
12-10-63						7.2																			
1050	1	47	11.7	99	298																				
1-14-64						7.5					0	71		24	0.5										
1025	1	39	12.6	96	348	7.6		2.10c			0.00	1.16		0.68	0.01				PO_4 = 0.36			105			
3-24-64						7.3					0	52		15	1.0										
1035	2	44	12.0	98	234	7.3		1.42c			0.00	0.85		0.42	0.02				PO_4 = 0.10			71		20	
4-21-64						7.3					0	69		22	1.0										
1100	1.5	50	11.0	97	349	7.2		2.00c			0.00	1.13		0.62	0.02				PO_4 = 0.43			100		4.5	
5-12-64						7.3					0	77		24	0.1										
1040	1	54	10.0	93	351	7.8		2.04c			0.00	1.26		0.68	0.00				PO_4 = 0.07			102		4.8	
6-25-64						7.0					0	75		30	0.8										
1205	0.5	65	7.9	84	386	7.6		2.20c	27 / 1.17		0.00	1.23		0.85	0.01				PO_4 = 0.06			110		5.0	
7-21-64						7.1					0	92		34	0.5										
1215	0.5	61	7.2	73	409	7.9		2.32c			0.00	1.56		0.96	0.01				PO_4 = 0.30			116		1.9	
8-18-64						7.3								20	0.9				ABS = 0.1						
1115	0.5	63	6.1	63	336									0.56	0.01				PO_4 = 0.47					11	
9-23-64						7.3								28	2.0				ABS = 0.0						
0920	0.5	53	3.7	34	375			2.58c						0.79	0.03				PO_4 = 0.16			129		1.2	

o Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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32505-D-H 6-61 200 SPO

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
			ppm	%Sat																						
UVAS CREEK NEAR MORGAN HILL (STA. 96)																										
10-3-63						7.9			11		7	186		7			0.0								62.	USGS
1200	15 est.	73	9.6	112	359	8.5		3.48c	0.48		0.23	3.05		0.20							12	174	10	1	13.	
11-7-63						7.2			9.5		0	168		6.2			0.2								620.	
1100	20 est.	59	9.2	92	334	8.1		3.14c	0.41		0.00	2.75		0.17							12	157	19	220	230.	
12-5-63						8.1			11		4	170		7.5			0.0								2.3	
1410	15 est.	52	12.9	117	347	8.4		3.28c	0.48		0.13	2.79		0.21					As = 0.00		13	164	18	15	1.3	
1-9-64						8.4			11		10	159		7.0			0.0								.13	
1320	10 est.	50	11.9	106	349	8.5		3.32c	0.48		0.33	2.61		0.20							13	166	19	3	4.6	
2-5-64						8.4			9.3		4	141		7.0			0.0								2.3	
1215	5 est.	54	14.5	136	295	8.4		2.76c	0.40		0.13	2.31		0.20							13	138	16	30	2.3	
3-4-64						8.4			10		10	134		4.5			0.1								6.2	
1145	5 est.	58	16.5	163	299	8.6		2.80c	0.44		0.33	2.20		0.13							14	140	14	15	.21	
4-9-64						8.4			10		9	136		5.5			0.1								6.2	
1415	5.0	67	17.0	186	298	8.9		2.80c	0.44		0.30	2.23		0.16							14	140	14	7	.62	
5-7-64						8.2	33	13	9.3	1.0	0	151	26	6.0	1.9	0.0	0.1	17	As = 0.00						6.2	
1045	18.9	58	11.8	116	306	7.7	1.65	1.11	0.40	0.03	0.00	2.47	0.84	0.17	0.03	0.00			ABS = 0.0 PO_4 = 0.00	180	13	138	14	2	.62	
6-9-64						8.1			10		0	163		5.5			0.1								6.2	
1215	22.7	62	10.3	106	312	8.2		3.00c	0.44		0.00	2.67		0.16							13	150	16	7	2.3	
7-7-64						8.4			11		5	165		5.5			0.1								62.	
1500	15.7	79	10.3	128	333	8.5		3.16c	0.48		0.17	2.70		0.16							13	158	14	10	62.	
8-5-64						8.4			12		14	160		6.0			0.1								230.	
1220	2.2	83	13.1	168	345	8.7		3.30c	0.52		0.47	2.62		0.17							14	165	11	2	62.	
9-4-64						8.3	42	19	17	1.6	0	210	25	8.0	1.0		0.1	16	As = 0.00						2.3	
1110	4 est.	69	11.5	129	388	8.1	2.10	1.56	0.74	0.04	0.00	3.44	0.52	0.23	0.02				ABS = 0.1 PO_4 = 0.00	234	17	183	11	1	2.3	

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform MPN/ml	Analyzed by i
ZAYANTE CREEK AT ZAYANTE (STA. 234)																										
10-8-63						8.1			42		0	248		29	1.2				Fe = 0.62							DWR
1330	0.8	58	10.1	99	662	8.2		5.19c	1.83		0.00	4.06		0.82	0.02				Mn = 0.00 PO_4 = 0.51	435		260				
11-6-63						7.9			27		0	142		19	1.6				Fe = 1.3 Mn = 0.00							
1110	4	52	10.2	92	481	7.9		3.62c	1.17		0.00	2.33		0.54	0.03				ABS = 0.0 PO_4 = 0.61	315		181				
12-10-63						7.9									0.0											
1420	2	42	11.9	94	631										0.00				PO_4 = 0.32	415						
1-15-64						8.1					0	230		27	0.6											
1250	1	40	13.4	103	653	8.2		5.31c			0.00	3.77		0.76	0.01				PO_4 = 0.31	430		266				
2-20-64						7.5					0	209		22	0.4											
0925	2	43			626	8.1		5.01c			0.00	3.42		0.62	0.01				PO_4 = 0.30	410		251				
3-25-64						8.2					0	205		22	0.6											
1430	2	46	12.2	102	600	8.0		4.80c			0.00	3.36		0.62	0.01				PO_4 = 0.32	395		240		2.7		
4-22-64						8.4					0	236		36	1.8				Fe = 0.08							
1330	1	53	11.6	106	664	8.1		5.21c			0.00	3.87		1.02	0.03				PO_4 = 0.34	435		261		2.2		
5-13-64						8.4					4	242		31	0.2											
1330	1.5	58	10.8	105	672	8.4		5.31c			0.13	3.97		0.87	0.00				PO_4 = 0.40	440		266		0.5		
6-23-64						7.9			40		0	256		33	0.9											
1330	1.5	67	9.0	97	686	8.3		5.37c	1.74		0.00	4.20		0.93	0.01				PO_4 = 0.37	450		269		2.5		
7-22-64						7.7					4	267		37	1.0											
0830	1	58	9.8	96	733	8.4		5.59c			0.13	4.38		1.04	0.02				PO_4 = 0.50	480		280		0.2		
8-18-64						8.1								42	0.4				ABS = 0.0							
0740	1	56	9.6	91	754									1.18	0.01				PO_4 = 0.51	495				3.6		
9-23-64						8.3								46	1.8											
1530	0.8	63	9.0	93	775			6.01c						1.30	0.03				PO_4 = 0.51	510		301		0.5		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform MPN/ml	Analyzed by
							equivalents per million																			
NEWELL CREEK ONE MILE EAST OF BEN LOMOND (STA. 219)																										
10-8-63						7.6			25		0	152		20	1.3				Fe = 0.46							DWR
1025	1	64	8.6	90	557	7.9		4.56c	1.09		0.00	2.49		0.56	0.02				Mn = 0.00			228				
																			PO_4 = 0.16							
12-5-63						7.3									1.0				Color = 10							
1340	1	51	9.9	89	562										0.02				Fe = 0.51							
																			PO_4 = 0.30							
1-15-64						7.3					0	162		20	1.5											
0955	1	47	10.0	85	581	8.1		5.00c			0.00	2.66		0.56	0.02				PO_4 = 0.25			250				
3-25-64						7.7					0	164		18	0.9											
1130	1	53	10.9	100	562	7.9		4.78c			0.00	2.69		0.51	0.01				PO_4 = 0.16			239		3.3		
4-22-64						7.8					0	162		18	0.5											
1005	1	51	9.9	89	553	7.9		4.64c			0.00	2.66		0.51	0.01				PO_4 = 0.16			232		3.7		
5-13-64						7.7					0	164		20	0.3											
0945	1	58	9.6	94	553	8.0		4.66c			0.00	2.69		0.56	0.00				PO_4 = 0.16			233		2.7		
6-26-64						7.3			21		0	166		20	1.2											
0805	1	54	9.9	92	552	8.1		4.66c	0.91		0.00	2.72		0.56	0.02				PO_4 = 0.13			233		3.5		
7-21-64						7.4					0	162		18	0.0											
1310	1	58	10.0	98	538	8.1		4.56c			0.00	2.66		0.51	0.00				PO_4 = 0.21			228		1.5		
8-18-64						7.4								20	0.6				ABS = 0.0							
0910	1	55	9.8	92	571									0.56	0.01				PO_4 = 0.29					1.8		
9-22-64						6.0								20	1.7											
1040	1	53	8.8	81	574			4.88c						0.56	0.03				PO_4 = 0.99			244		5.8		
LOVE CREEK AT BEN LOMOND (STA. 216)																										
10-8-63						7.9																				DWR
0930	0.3	57	9.5	92	406															265						
11-7-63						7.6																				
1200	0.5	49	10.6	92	366															240						

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), repr ere as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25° C)	pH a/b	Mineral constituents in parts per million														Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
							Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents								
														equivalents per million												
LOVE CREEK AT BEN LOMOND (STA. 216)																											
12-10-63 1225	0.3	44	11.6	94	367	7.4															240						DWR
1-15-64 0930	0.3	38	12.7	95	390	7.8 / 8.0		2.94c			0 / 0.00	140 / 2.29		22 / 0.62	0.7 / 0.01				PO_4 = 0.59		255		147				
2-19-64 1220	0.5	46			361	7.6 / 7.8		2.74c			0 / 0.00	129 / 2.11		18 / 0.51	1.5 / 0.02				Color = 0 PO_4 = 0.55		235		137				
3-25-64 1100	0.5	44	12.6	103	342	7.9 / 7.7		2.56c			0 / 0.00	123 / 2.02		17 / 0.48	1.3 / 0.02				PO_4 = 0.51		220		128		4.5		
4-22-64 0935	0.3	49	11.5	100	391	8.0 / 7.9		2.94c			0 / 0.00	146 / 2.39		21 / 0.59	0.2 / 0.00				PO_4 = 0.52		255		147		0.7		
5-13-64 0930	0.3	53	10.4	95	408	7.8 / 8.2		2.96c			0 / 0.00	153 / 2.51		22 / 0.62	0.1 / 0.00				PO_4 = 0.75		265		148		0.4		
7-21-64 1300	0.3	60	9.1	91	436	7.6 / 8.3		3.30c			0 / 0.00	170 / 2.79		25 / 0.70	0.0 / 0.00				PO_4 = 0.74		285		165		0.6		
8-18-64 0850	0.3	58	9.2	90	467	7.9								25 / 0.70	0.5 / 0.01				ABS = 0.0 PO_4 = 0.85		305				1.5		
9-23-64 1330	Dry																										
MARSHALL CREEK (STA. 254)																											
10-10-63 1500	0.3	59	9.8	97	235	7.3																					DWR
11-7-63 1110	0.5	51	10.5	94	217	7.6																					
12-10-63 1305	0.3	47	11.1	94	208	7.3																					

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
MARSHALL CREEK (STA. 254)																										
1-15-64 0910	0.3	43	12.2	98	219	7.4																				OWR
3-25-64 1030	0.5	46	11.8	99	215	7.5 / 7.6		1.56c			0 / 0.00	92 / 1.51		8.4 / 0.24	0.8 / 0.01				PO_4 = 0.10			78		1.5		
4-22-64 0910	0.5	48	11.4	98	224	7.7 / 7.7		1.64c			0 / 0.00	104 / 1.70		8.9 / 0.25	0.3 / 0.00				PO_4 = 0.13			82		1.7		
5-13-64 0910	0.5	51	10.8	97	237	7.7 / 8.0		1.74c			0 / 0.00	108 / 1.77		9.3 / 0.26	0.0 / 0.00				PO_4 = 0.15			87		1.5		
9-23-64 1317	0.3	59	9.8	97	304	7.7		2.20c						12 / 0.34	1.8 / 0.03				PO_4 = 0.20			110		0.5		
LOMPICO CREEK ONE MILE NORTH OF OLYMPIA (STA. 215)																										
10-8-63 1415	0.3	58	9.8	96	606	8.2														390						OWR
11-6-63 1145	1	52	10.2	92	383	8.0														245						
12-11-63 1125	1	41	12.0	94	418	7.8														270						
1-15-64 1230	0.3	41	12.6	98	481	7.9 / 8.3		4.24c			0 / 0.00	228 / 3.74		18 / 0.51	0.9 / 0.01				PO_4 = 0.38	310		212				
2-20-64 1000	0.5	45			446	7.9 / 8.1		3.72c			0 / 0.00	199 / 3.26		16 / 0.45	1.2 / 0.02				Color = 5 PO_4 = 0.40	285		186				
3-25-64 1400	0.8	48	12.2	105	428	8.1 / 7.8		3.54c			0 / 0.00	187 / 3.06		16 / 0.45	1.0 / 0.02				PO_4 = 0.39	275		177		4		
4-22-64 1300	0.5	52	11.6	105	506	8.3 / 8.2		4.32c			0 / 0.00	239 / 3.92		18 / 0.51	0.3 / 0.00				PO_4 = 0.45	325		216		2.5		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-0-8 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by i
LOMPICO CREEK ONE MILE NORTH OF OLYMPIA (STA. 215)																										
5-13-64 1310	0.3	54	10.9	101	517	8.2 / 8.3		4.42c			0 / 0.00	247 / 4.05		20 / 0.56	0.7 / 0.01				PO_4 = 0.49	330		221		1.6		DWR
7-22-64 0850	0.5	56	9.1	87	614	7.7 / 8.2		3.39c			0 / 0.00	314 / 5.15		21 / 0.59	1.2 / 0.02				PO_4 = 0.68	395		270		1.1		
8-18-64 0715	0.5	56	9.2	88	646	8.2								21 / 0.59	0.5 / 0.01				ABS = 0.0 PO_4 = 0.70	415				1.6		
9-23-64 1515	0.5	60	9.3	93	649	8.1		3.87c						22 / 0.62	1.5 / 0.02				PO_4 = 0.65	415		294		1.3		
FALL CREEK ONE-HALF MILE NORTH OF FELTON (STA. 211)																										
10-8-63 1115	2	56	10.0	95	270	7.9														175						DWR
11-7-63 1430	2	52	10.8	98	254	8.1														165						
12-11-63 1225	1.5	45	11.8	97	260	7.9														165						
1-15-64 1020	2	43	12.3	99	258	8.0 / 8.0		2.28c			0 / 0.00	130 / 2.13		7.8 / 0.22	0.2 / 0.00				PO_4 = 0.09	165		114				
3-25-64 1215	1.5	47	12.1	103	235	8.0 / 7.8		2.02c			0 / 0.00	117 / 1.92		8.5 / 0.24	0.8 / 0.01				PO_4 = 0.07	150		101		2		
4-22-64 1045	2	49	11.3	98	256	8.1 / 7.9		2.22c			0 / 0.00	132 / 2.16		8.2 / 0.23	0.0 / 0.00				PO_4 = 0.14	165		111		2.2		
5-13-64 0945	2.5	51	11.0	98	258	8.1 / 8.2		2.28c			0 / 0.00	136 / 2.23		8.4 / 0.24	0.1 / 0.00				PO_4 = 0.11	165		114		0.9		
7-22-64 0955	2.5	56	10.1	96	286	7.6 / 8.4		2.46c			4 / 0.13	140 / 2.29		8.4 / 0.24	0.6 / 0.01				PO_4 = 0.13	185		123		0.4		
8-18-64 0830	2	55	10.3	97	284	8.0								8.3 / 0.23	0.1 / 0.00				ABS = 0.0 PO_4 = 0.14	183				0.3		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc (TTL); or California Department of Water Resources (DWR); as indicated.

32505-041 6-62 200 SPO

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
PALL CREEK ONE-HALF MILE NORTH OF FELTON (STA. 211)																										
9-23-64 1340	2	59	9.9	98	303	7.9		2.56c						10 / 0.28	0.7 / 0.01				PO_4 = 0.13	195		128		0.2		OWR
BEAN CREEK ONE MILE EAST OF FELTON (STA. 204)																										
10-8-63 1530	2	58	9.6	94	380	7.8 / 7.7		2.58c	25 / 1.09		0 / 0.00	113 / 1.85		26 / 0.73	2.5 / 0.04				Fe = 1.1 Mn = 0.00 PO_4 = 1.5	245		129				
11-6-63 1030	8	53	10.0	92	334	7.6 / 7.6		2.28c	19 / 0.83		0 / 0.00	85 / 1.39		19 / 0.56	2.0 / 0.03				Fe = 0.21 Mn = 0.00 ABS = 0.0 PO_4 = 2.4	215		114				
12-11-63 1200	4	44	11.6	94	390	7.5									2.1 / 0.03				PO_4 = 0.89	255						
1-15-64 1130	4	44	11.7	95	393	7.5 / 8.0		2.76c			0 / 0.00	118 / 1.93		27 / 0.76	2.6 / 0.04				PO_4 = 0.88	255		138				
2-20-64 1040	4	48			399	7.4 / 7.8		2.82c			0 / 0.00	120 / 1.97		24 / 0.68	1.7 / 0.03				Color = 0 PO_4 = 0.83	260		141				
3-25-64 1340	4	52	10.9	99	386	7.8 / 7.5		2.72c			0 / 0.00	116 / 1.90		23 / 0.65	2.6 / 0.04				PO_4 = 0.95	250		136		12		
4-22-64 1230	3	53	10.3	95	392	7.8 / 7.6		2.66c			0 / 0.00	122 / 2.00		26 / 0.73	2.0 / 0.03				Fe = 1.2 PO_4 = 1.1	255		133		14		
5-13-64 1245	2.5	57	10.1	97	397	8.0 / 8.0		2.72c			0 / 0.00	122 / 2.00		28 / 0.79	1.5 / 0.02				PO_4 = 1.0	260		136		7.5		
6-23-64 1300	2	64	8.9	93	409	7.5 / 8.2		2.82c	23 / 1.00		0 / 0.00	126 / 2.06		28 / 0.79	2.2 / 0.04				PO_4 = 0.70	265		141		4.0		
7-22-64 0920	2.5	57	9.8	94	413	7.4 / 8.0		2.86c			0 / 0.00	129 / 2.11		29 / 0.82	2.1 / 0.03				PO_4 = 1.0	270		143		2.0		
8-18-64 0805	2.5	55	10.2	96	417	7.8								28 / 0.79	2.0 / 0.03				ABS = 0.0 PO_4 = 0.96	270				3.2		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-R 8-62 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N C ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
BEAN CREEK ONE MILE EAST OF FELTON (STA. 204)																										
9-23-64 1455	2	60	9.7	97	408	7.8		2.78[c]						30 / 0.85	3.2 / 0.05				PO_4 = 1.1	265		139		2.1		DWR
SAN LORENZO RIVER AT FELTON (STA. 229)																										
10-8-63 1210	8	60	9.8	98	390	7.8 / 7.7		2.88[c]	22 / 0.96		0 / 0.00	143 / 2.34		22 / 0.62	1.2 / 0.02				Fe = 0.16 Mn = 0.00 PO_4 = 0.37	240		144				DWR
11-6-63 0945	35	54	9.7	90	295	7.5 / 7.6		2.14[c]	16 / 0.70		0 / 0.00	76 / 1.24		16 / 0.45	1.8 / 0.03				Fe = 0.69 Mn = 0.00 ABS = 0.0 PO_4 = 0.51	185		107				
12-11-63 1030	30	42	12.0	95	375	7.4									0.6 / 0.01				PO_4 = 0.29	235						
1-15-64 1050	25	42	13.7	108	391	7.9 / 7.8		2.92[c]			0 / 0.00	137 / 2.24		20 / 0.56	0.5 / 0.01				PO_4 = 0.24	245		146				
2-19-64 1555	30	49	11.3	98	378	7.5 / 7.9		2.76[c]			0 / 0.00	127 / 2.08		18 / 0.51	1.0 / 0.02				PO_4 = 0.23	235		138				
3-25-64 1230	35	50	12.3	109	349	7.9 / 7.6		2.54[c]			0 / 0.00	115 / 1.88		17 / 0.48	1.1 / 0.02				PO_4 = 0.24	220		127		3.5		
4-22-64 1110	20	53	10.7	98	387	7.9 / 7.7		2.84[c]			0 / 0.00	141 / 2.31		21 / 0.59	1.3 / 0.02				Fe = 0.89 PO_4 = 0.26	240		142		8.0		
5-13-64 1045	18	52	10.1	92	394	7.9 / 7.9		2.88[c]			0 / 0.00	142 / 2.33		22 / 0.62	0.3 / 0.00				PO_4 = 0.32	245		144		2.5		
6-23-64 1205	15	70	10.5	117	383	8.0 / 8.3		2.82[c]	21 / 0.91		0 / 0.00	143 / 2.34		22 / 0.62	1.2 / 0.02				PO_4 = 0.34	240		141		2.0		
7-22-64 0800	18	61	7.3	74	380	7.3 / 7.9		2.80[c]			0 / 0.00	144 / 2.36		21 / 0.59	0.4 / 0.01				PO_4 = 0.30	230		140		0.8		
8-17-64 1545	18	71	9.7	109	376	8.0								22 / 0.62	0.3 / 0.00				ABS = 0.0 PO_4 = 0.44	235				2.6		

o Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-DH 6-61 200 JPO

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform h MPN/ml	Analyzed by i
														equivalents per million												
SAN LOPENZO RIVER AT FELTON (STA. 229)																										
9-23-64						7.7																				DWR
1410	16	67	9.8	106	386			2.72c						28 / 0.79	0.7 / 0.01				PO_4 = 0.40	240		136		1.8		
ZAYANTE CREEK AT FELTON (STA. 233)																										
																			Fe = 0.32							
10-8-63						8.0			25		0	124		24	1.8				Mn = 0.00							DWR
1230	3	59	10.4	103	383	7.7		2.56c	1.09		0.00	2.03		0.68	0.03				PO_4 = 0.90	245		128				
11-6-63						7.7			20		0	94		18	2.3				Fe = 0.73							
0950	15	53	10.0	92	344	7.7		2.42c	0.87		0.00	1.54		0.51	0.04				Mn = 0.00 ABS = 0.0 PO_4 = 1.1	220		121				
12-11-63						7.8									2.0											
1045	8	42	12.3	97	410										0.03				PO_4 = 0.71	265						
1-15-64						8.3					0	131		23	1.8											
1105	6	41	13.6	106	403	8.0		2.94c			0.00	2.15		0.65	0.03				PO_4 = 0.78	260		147				
2-19-64						8.0					0	130		22	1.3				Color = 0							
1605	8	53	10.7	98	417	7.9		3.02c			0.00	2.13		0.62	0.02				PO_4 = 0.77	265		151				
3-25-64						8.1					0	131		22	2.2											
1240	8	51	11.8	106	415	7.8		3.02c			0.00	2.15		0.62	0.04				PO_4 = 0.77	265		151		4.4		
4-22-64						8.1					0	126		22	1.8				Fe = 0.24							
1135	6	53	11.2	103	382	7.7		2.64c			0.00	2.06		0.62	0.03				PO_4 = 1.1	245		132		33		
5-13-64						8.1					0	134		25	1.0											
1100	8	55	10.6	100	402	8.1		2.84c			0.00	2.20		0.70	0.02				PO_4 = 0.88	260		142		3.5		
6-23-64						7.8			24		0	136		28	1.6											
1210	7	68	9.5	104	404	8.2		2.84c	1.04		0.00	2.23		0.79	0.03				PO_4 = 0.90	260		142		3.0		
7-22-64						7.7					0	132		27	1.1											
0750	8	59	9.9	98	397	8.2		2.76c			0.00	2.16		0.76	0.02				PO_4 = 0.93	255		138		1.5		
8-17-64						8.2								30	1.5				ABS = 0.0							
1530	8	66	9.5	102	412									0.85	0.02				PO_4 = 0.94	265				2.9		
9-23-64						8.0								29	2.3											
1425	8	62	9.7	99	386			2.78c						0.82	0.04				PO_4 = 1.0	240		139		1.2		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-DH 6-61 200 JPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform MPN/ml	Analyzed by i
							equivalents per million																			
SAN LORENZO RIVER AT BIG TREES (STA. 226)																										
10-8-63 1430	12	60	9.7	97	386	8.0														240						DWR
11-7-63 1505	56	52	9.4	85	349	7.7														215						
12-11-63 0910	51	40	11.8	91	361	7.7														220						
1-15-64 1400	34	45	13.3	110	383	7.9														236						
3-25-64 1515	56	53	11.2	103	357	7.5 / 7.6		2.58c			0 / 0.00	119 / 1.95		17 / 0.48	1.1 / 0.02				PO_4 = 0.31	220		129		5.0		
4-22-64 1430	33	59	10.4	103	382	8.0 / 7.7		2.74c			0 / 0.00	132 / 2.16		21 / 0.59	0.3 / 0.00				PO_4 = 0.45	235		137		7.5		
5-13-64 1515	27		10.1		386	8.2 / 8.1		2.82c			0 / 0.00	138 / 2.26		21 / 0.59	0.6 / 0.01				PO_4 = 0.39	240		141		2.8		
SAN LORENZO RIVER AT BIG TREES (STA. 75)																										
10-3-63 1745	12	62	8.8	91	372	8.0 / 8.3		2.78c	21 / 0.91		2 / 0.07	141 / 2.31		24 / 0.68			0.0				25	139	20	1	23. / 1.3	USGS
11-8-63 1230	45	55	10.4	99	356	7.1 / 7.9		2.64c	20 / 0.87		0 / 0.00	122 / 2.00		20 / 0.56			0.1				25	132	32	30	62. / 130.	
12-4-63 1740	53	46	12.9	108	363	8.0 / 8.1		2.78c	10 / 0.44		0 / 0.00	135 / 2.21		19 / 0.54			0.0				14	139	28	5	6.2 / 23.	
1-7-64 1240	35	49	13.2	116	370	8.3 / 8.5		2.78c	24 / 1.04		6 / 0.20	128 / 2.10		26 / 0.73			0.1				27	139	24	10	9.5 / 23.	
2-6-64 1245	77	50	11.6	103	360	7.6 / 8.6		2.76c	22 / 0.96		7 / 0.23	114 / 1.87		19 / 0.54			0.1				26	138	33	10	6.2 / 6.2	
3-5-64 1330	44	54	11.2	105	375	8.0 / 8.2		2.84c	20 / 0.87		0 / 0.00	133 / 2.18		22 / 0.62			0.1				23	142	33	10	6.2 / 23.	

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR), as indicated.

32505-D-H 6-61 200 SPO

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
SAN LORENZO RIVER AT BIG TREES (STA. 75)																										
4-7-64						8.0			23		1	132		20			0.1								2.3	USGS
1215	40	61	11.0	112	373	8.3		2.74c	1.00		0.03	2.16		0.56							27	137	27	2	2.3	
																			As = 0.00							
5-6-64						7.8	42	9.0	22	1.8	0	141	46	23	1.2	0.2	0.1	24	ABS = 0.1						23.	
0920	30	52	11.2	102	379	7.8	2.10	0.74	0.96	0.00	0.00	2.31	0.96	0.66	0.02	0.01			PO_4 = 0.30	239	25	142	26	1	13.	
6-10-64						8.0			24		5	134		24			0.1								50.	
1215	31	60	10.1	102	389	8.5		2.98c	1.04		0.17	2.20		0.68							26	149	31	1	13.	
7-8-64						8.2			22		0	142		25			0.1								6.2	
1120	17	70	10.5	119	372	8.2		2.76c	0.96		0.00	2.33		0.71							26	138	22	10	2.3	
8-6-64						8.1			22		0	138		23			0.1								62.	
1140	11	73	10.1	118	358	8.1		2.66c	0.96		0.00	2.26		0.65							27	133	20	4	62.	
																			As = 0.00							
9-3-64						8.0	30	14	21	2.0	0	139	34	24	0.9		0.1	22	ABS = 0.0						6.2	
1055	13	63	10.7	112	366	8.0	1.50	1.12	0.91	0.05	0.00	2.28	0.71	0.68	0.01				PO_4 = 0.50	230	25	131	17	1	6.2	
BRANCIFORTE CREEK NEAR SANTA CRUZ (STA. 209)																										
11-6-63						7.2			18		0	56		25	13		0.1		ABS = 0.0							DWR
0735	8	54	10.3	96	351	7.1		1.98c	0.78		0.00	0.92		0.70	0.21				PO_4 = 1.1			99				
12-13-63						7.9			33		0	228		31	1.9											
0845	3	38	12.0	90	583	8.1		4.52c	1.44		0.00	3.74		0.87	0.03				PO_4 = 0.48			226				
1-16-64						8.2					0	252		32	0.6				ABS = 0.0							
1040	1.5	40	14.2	109	614	8.2		4.84c			0.00	4.13		0.90	0.01				PO_4 = 0.39			242				
3-26-64						8.3					0	179		28	3.0											
1500	5	55			493	7.9		3.64c			0.00	2.93		0.79	0.05				PO_4 = 0.68			182		13		
5-14-64						8.2					0	263		35	1.7											
1430	1.5	58	11.0	107	641	8.2		4.96c			0.00	4.31		0.99	0.03				PO_4 = 0.67			248		15		
6-23-64						7.6			41		0	284		36	2.0											
0730	1	58	8.9	87	669	8.3		5.17c	1.78		0.00	4.65		1.02	0.03				PO_4 = 0.78			259		3.5		
7-22-64						7.6					8	276		37	1.0											
1230	0.5	65	10.8	114	678	8.5		5.31c			0.27	4.52		1.04	0.02				PO_4 = 0.79			266		3.4		

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL), or California Department of Water Resources (DWR), as indicated.

32505-0-61 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonates (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chlorids (Cl)	Nitrats (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
														parts per million: equivalents per million												
BRANCIPORTE CREEK NEAR SANTA CRUZ (STA. 209)																										
8-17-64						8.4								36	0.6				ABS = 0.0							DWR
1405	0.8	65	11.4	120	677									1.02	0.01				PO_4 = 0.80					2.4		
9-23-64						8.0								39	3.0											
1010	0.8	60	9.3	93	702			5.55c						1.10	0.05				PO_4 = 0.93			278		2.1		
BRANCIPORTE CREEK (STA. 248)																										
10-7-63						8.2			40		0	213		32	1.2				Fe = 0.50							DWR
1330	1.4	63	10.5	109	547	8.0		3.96c	1.74		0.00	3.49		0.90	0.02				PO_4 = 0.71	380		198				
11-6-63						7.4			22		0	89		25	5.5		0.1		Fe = 0.88							
0735	15	54	9.3	86	356	7.4		2.32c	0.96		0.00	1.46		0.70	0.09				ABS = 0.0 PO_4 = 0.90	250		116				
12-10-63						7.2									5.8											
0800	5.6	42	10.9	86	356										0.09				PO_4 = 0.44	250						
1-16-64						8.1					0	174		28	1.9				ABS = 0.0							
0950	3.2	40	13.4	103	486	8.1		3.50c			0.00	2.85		0.79	0.03				PO_4 = 0.34	340		175				
2-20-64						8.0					0	138		25	3.4				Color = 5							
1400	4.2	54			417	7.9		2.92c			0.00	2.26		0.70	0.05				PO_4 = 0.45	290		146				
3-26-64						8.0					0	129		26	4.9											
1430	7.7	56	11.1	66	416	7.6		2.86c			0.00	2.11		0.73	0.08				PO_4 = 0.54	290		143		13		
4-23-64						8.4					0	180		29	1.5											
1515	3.2	54	11.3	105	497	8.1		3.56c			0.00	2.95		0.82	0.02				PO_4 = 0.50	345		178		4.5		
5-14-64						8.1					0	200		35	1.5											
1410	2.4	60	11.0	110	526	8.3		3.86c			0.00	3.28		0.99	0.02				PO_4 = 0.42	370		193		5.0		
6-23-64						7.8			18		0	225		34	1.1											
0700	1.4	58	8.7	85	572	8.2		4.24c	0.78		0.00	3.69		0.96	0.02				PO_4 = 0.67	400		212		3.0		
7-22-64						7.9					0	229		34	1.4											
1215	0.8	67	10.7	116	580	8.3		4.24c			0.00	3.75		0.96	0.02				PO_4 = 0.68	405		212		3.3		

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR), as indicated.

32505-041 6-61 200 SPO

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp. in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in ppm: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform MPN/ml	Analyzed by i
														equivalents per million												
SRANCIFORTE CREEK (STA. 248)																										
8-17-64						8.4								37	0.4				ABS = 0.0							DWR
1350	1.2	66	10.6	113	611									1.04	0.01				PO_4 = 0.74	425				1.9		
9-24-64						7.9								39	2.1											
0945	0.9	61	9.1	92	668			5.09c						1.10	0.03				PO_4 = 0.89	465		255		4.0		
CARBONERA CREEK (STA. 251)																										
1-16-64						7.3																				DWR
1020	2	40	13.4	103	312																					
2-20-64						7.3					0	78		22	4.4				Color = 10							
1345	2	53			315	7.6		2.00e			0.00	1.28		0.62	0.07				PO_4 = 0.42			100				
3-26-64																										
1500	2.5				320																					
5-14-64						7.4					0	86		23	2.0											
1455	0.8	61	10.0	101	314	7.9		1.82c			0.00	1.41		0.65	0.03				PO_4 = 0.46			91		4.0		
6-23-64						7.2					0	87		26	2.0											
0750	0.5	58	9.0	88	325	7.7		1.88c	24 / 1.04		0.00	1.42		0.73	0.03				PO_4 = 0.52			94		3.5		
7-22-64						7.4					0	89		28	1.2											
1220	0.3	66	9.9	106	330	7.9		1.76c			0.00	1.46		0.79	0.02				PO_4 = 0.52			88		2.3		
8-17-64						7.2								31	0.9				ABS = 0.0							
1350	0.3	67	9.4	102	350									0.87	0.01				PO_4 = 0.56					1.5		
9-23-64						7.3								38	1.4											
1000	0.3	60	7.8	78	383			1.96c						1.07	0.02				PO_4 = 0.64			98		3.6		

o Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-6-61 6-63 200 JPO

TABLE D-2
ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform h MPN/ml	Analyzed by i
SOQUEL CREEK AT SOQUEL (STA. 76)																										
10-3-63						8.1			50		10	236		65			0.0								62.	USGS
1700	4.5	68	8.4	91	787	8.4		5.96c	2.18		0.33	3.87		1.83							27	298	88	2	62.	
11-8-63						7.6			49		0	225		55			0.1								23.	
1122	8.0	57	10.9	105	750	8.2		5.76c	2.13		0.00	3.69		1.55							27	288	104	10	62.	
12-4-63						8.2			46		8	220		42			0.1								6.2	
1700	13	50	10.9	96	716	8.3		5.80c	2.00		0.27	3.61		1.18							26	290	96	2	2.3	
1-7-64						8.4			15		17	217		58			0.1								6.2	
1330	9.0	54	12.0	111	778	8.7		5.76c	0.65		0.57	3.56		1.64							10	288	82	5	13.	
2-6-64						8.3			41		17	182		36			0.2								13.	
1430	19	56	11.0	105	650	8.6		5.24c	1.78		0.57	2.98		1.02							25	262	85	10	2.3	
3-5-64						8.4			43		11	216		48			0.2								2.3	
1515	13	58	10.6	103	717	8.6		5.86c	1.87		0.37	3.54		1.35							24	293	98	10	21.	
4-7-64						8.4			48		12	214		48			0.1								62.	
1310	11	64	7.6	79	720	8.7		5.60c	2.09		0.40	3.51		1.35							27	280	85	1	23.	
5-6-64						8.0	80	23	52	3.9	4	242	115	58	0.6	0.4	0.1	30	As = 0.00 ABS = 0.0						62.	
0800	5.2	52	11.6	105	774	8.4	3.99	1.89	2.26	0.10	0.13	3.97	2.39	1.64	0.01	0.02			PO_4 = 0.24	502	27	294	89	1	23.	
6-10-64						8.4			60		11	217		62			0.1								6.2	
1310	1.2	64	10.3	107	768	8.6		5.66c	2.61		0.37	3.56		1.75							32	283	87	0	50.	
7-8-64						8.4			51		14	226		67			0.1								62.	
1220	1.7	77	11.8	141	780	8.6		6.08c	2.22		0.47	3.70		1.89							27	304	96	2	5.	
8-6-64						8.4			45		4	240		58			0.1								13.	
1230	1.7	77	13.3	159	746	8.3		5.92c	1.96		0.13	3.93		1.64							25	296	93	3	23.	
9-3-64						8.2	75	27	44	4.7	0	252	101	62	0.5		0.2	34	As = 0.00 ABS = 0.0						13.	
0955	2.4	63	10.9	112	755	8.1	3.74	2.22	1.91	0.12	0.00	4.13	2.10	1.75	0.01				PO_4 = 0.35	488	24	298	91	2	23.	

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
SAN LORENZO RIVER AT SANTA CRUZ (STA. 230)																										
10-10-63 1600	15	62	11.3	115	388	8.3 / 7.9		2.82c	23 / 1.00		0 / 0.00	141 / 2.31		22 / 0.62	0.9 / 0.01				Fe = 0.40; PO_4 = 0.53	240		141				DWR
11-5-63 1625	150	56	9.6	91	331	7.4		2.34c	19 / 0.83		0 / 0.00	112 / 1.84		19 / 0.54	1.2 / 0.02				ABS = 0.0; PO_4 = 0.70	205		117				
12-11-63 0840	50	40	12.5	96	380	7.7									0.9 / 0.01				PO_4 = 0.41	235						
1-16-64 0900	35	39	12.7	96	390	7.7 / 8.0		2.90c			0 / 0.00	134 / 2.20		22 / 0.62	0.4 / 0.01				PO_4 = 0.28	240		145				
2-20-64 1430	50	55	13.2	124	382	7.9 / 8.1		2.84c			0 / 0.00	132 / 2.16		19 / 0.54	1.5 / 0.02				Color = 0; PO_4 = 0.32	235		142				
3-26-64 1400	50	59	12.6	124	364	8.4 / 8.0		2.68c			0 / 0.00	125 / 2.05		18 / 0.51	0.8 / 0.01				PO_4 = 0.32	225		134		3.4		
4-23-64 1430	30	60	12.2	122	389	8.4 / 8.3		2.84c			0 / 0.00	138 / 2.26		22 / 0.62	0.1 / 0.00				PO_4 = 0.37	240		142		2.6		
5-14-64 1340	25		10.6		389	8.4 / 8.3		2.84c			0 / 0.00	141 / 2.31		22 / 0.62	0.3 / 0.00				PO_4 = 0.41	240		142		2.3		
6-23-64 0920	20	67	9.1	98	387	7.5 / 8.2		2.86c	21 / 0.91		0 / 0.00	144 / 2.36		23 / 0.65	0.9 / 0.01				PO_4 = 0.41	240		143		1.5		
7-22-64 1200	27	74	9.9	115	386	7.6 / 8.2		2.80c			0 / 0.00	143 / 2.34		24 / 0.68	1.2 / 0.02				PO_4 = 0.46	240		140		0.9		
8-17-64 1445	25	76	11.2	133	380	8.4								23 / 0.65	0.3 / 0.00				ABS = 0.0; PO_4 = 0.59	235				0.7		
9-24-64 0800	25	60	8.2	82	389	7.6		2.70c						51 / 1.44	0.6 / 0.01				PO_4 = 0.50	240		135		2.0		

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million / equivalents per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
			ppm	%Sat		a / b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonates (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents			Total ppm	N.C. ppm			
PAJARO RIVER NEAR CHITTENDEN (STA. 77)																									
10-3-63						8.0			170		4	544		189			1.0							6.2	USGS
1345	4.2	65	8.3	87	1690	8.3		9.92c	7.40		0.13	8.92		5.33							43	496	43	2	6.2	
11-7-63						7.4			111		4	462		111			0.6							230.	
0945	22	55	8.2	77	1310	8.3		9.64c	4.83		0.13	7.57		3.13							33	482	97	4	62.	
12-5-63						7.8			116		0	374		115			0.7							6.2	
1515	17	49	9.8	85	1490	8.2		11.96c	5.05		0.00	6.13		3.24					As = 0.01		30	598	291	10	6.2	
1-7-64						8.0			71		4	290		72			0.4							6.2	
1645	24	50	9.3	82	1300	8.3		11.08c	3.09		0.13	4.75		2.03							22	554	310	6	2.3	
2-5-64						8.0			76		24	260		63			0.4							2.3	
1315	36	54	11.0	102	1050	8.6		8.84c	3.31		0.80	4.26		1.78							27	442	189	9	6.2	
3-4-64						8.3			80		8	376		76			0.6							6.2	
1300	23	56	11.7	111	1250	8.4		11.20c	3.48		0.27	6.16		2.14							24	560	239	10	23.	
4-7-64						8.2			84		10	342		77			0.5							6.2	
1630	23	62	8.8	90	1280	8.5		11.24c	3.65		0.33	5.61		2.17							25	562	265	1	2.3	
5-7-64						8.0	99	80	85	2.4	6	430	262	95	19	0.5	0.6	18	As = 0.00 ABS = 0.1						2.3	
0940	17	56	8.3	79	1420	8.3	4.94	6.54	3.70	0.06	0.20	7.05	5.45	2.68	0.31	0.03			PO_4 = 0.20	933	24	574	212	2	2.3	
6-9-64						8.2			126		18	388		110			0.8							23.	
1400	3.5	64	8.3	86	1340	8.4		9.96c	5.48		0.60	6.36		3.10							35	498	150	1	62.	
7-7-64						8.4			133		20	472		110			0.6							230.	
1600	3.0	72	12.1	137	1470	8.6		10.80c	5.79		0.67	7.74		3.10							35	540	120	10	23.	
8-5-64						8.2			149		10	500		125			0.8							62.	
1115	2.5	72	6.7	76	1550	8.4		9.76c	6.48		0.33	8.20		3.53							40	488	62	5	50.	
9-4-64						7.8	82	79	156	5.0	4	556	188	135	0.9		0.8	6.6	As = 0.01 ABS = 0.1						6.2	
1000	1.9	63	6.7	69	1520	8.3	4.09	6.51	6.79	0.13	0.13	9.11	3.91	3.81	0.01				PO_4 = 0.50	959	39	530	68	4	62.	

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination.

H Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR), as indicated.

32505-DH 6-61 2M LR

TABLE D-2
ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/ b/	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N C ppm	Turbidity in ppm	Coliform h MPN/ml	Analyzed by i/
														equivalents per million												
SALINAS RIVER MILE 0.00 (STA. 264)																										
8-3-64 1535		73	9.0	104	3020	9.2 / 8.9	41 / 2.04	87 / 7.15	455 / 19.79	21 / 0.54	32 / 1.07	250 / 4.10	400 / 8.33	566 / 15.97	0.4 / 0.01		1.0		ABS = 0.2	1820	67	460	202	90		DWR
8-4-64 0445		69	3.1	34		9.1																				Field determinations
9-17-64 0450		63	11.3	117		9.4																				Field determinations
9-17-64 1540		68	21.0	230	2830	9.6								568								460		100		Field determinations
SALINAS RIVER MILE 1.70 (STA. 263)																										
8-3-64 1450		75	17.3	203	2360	9.3 / 9.0	47 / 2.34	76 / 6.27	348 / 15.14	15 / 0.38	41 / 1.37	261 / 4.28	373 / 7.76	372 / 10.49	0.2 / 0.00		0.9		ABS = 0.3	1470	63	431	149	100		DWR
8-4-64 0410		69	12.5	138		9.3																				Field determinations
9-17-64 0430		64	16.5	171		9.0																				Field determinations
9-17-64 1410		69	32.2	355	2240	9.4 / 8.6	78 / 3.89	74 / 6.08	312 / 13.57	14 / 0.36	20 / 0.67	404 / 6.62	304 / 6.33	328 / 9.25	12 / 0.19		0.7		ABS = 0.6	1400	57	499	134	100		DWR
BLANCO DRAIN INTO SALINAS RIVER (STA. 246)																										
8-3-64 1715	3	70			3580	8.3 / 8.4	130 / 6.49	163 / 13.41	471 / 20.49	4.6 / 0.12	18 / 0.60	608 / 9.96	939 / 19.55	362 / 10.21	59 / 0.95		1.4		ABS = 0.1	2580	50	996	467	60		DWR
9-17-64 0330	3	71	5.8	59		7.9																				Field determinations

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

TABLE D-2
ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
							equivalents per million																			
BLANCO DRAIN INTO SALINAS RIVER (STA. 246)																										
9-17-64 1353	3	65	8.7	92	3000	8.1								304								830		12		Field determinations
SALINAS RIVER MILE 3.50 (STA. 262)																										
8-3-64 1515		71	16.8	190	2000	9.1 / 8.9	88 / 4.39	74 / 6.08	244 / 10.61	12 / 0.31	51 / 1.70	376 / 6.16	331 / 6.89	238 / 6.71	8.5 / 0.14		0.8		ABS = 1.2	1270	50	524	130	100		DWR
8-4-64 0335		69	23.5	259		8.9																				Field determinations
9-17-64 0407		65	12.1	128		8.2																				Field determinations
9-17-64 1445		67	17.7	191	1995	8.4								235								510		62		Field determinations
SALINAS RIVER MILE 4.65 (STA. 261)																										
8-3-64 1820		75	18.8	221	1680	8.1								216										30		Field determinations
8-4-64 0300		70	11.5	128		8.3																				Field determinations
9-17-64 0345		63	4.5	47		7.6																				Field determinations
9-17-64 1410		68	10.6	116	1575	8.0								216								380		30		Field determinations

a Field pH.

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in ppm / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
SALINAS RIVER MILE 7.13 (STA. 260)																										
8-3-64 1800		72	5.5	63	1630	7.4 / 8.2	97 / 4.84	49 / 4.05	166 / 7.22	14 / 0.36	0 / 0.00	439 / 7.20	161 / 3.35	211 / 5.95	27 / 0.44		0.5		ABS = 3.1	988	44	445	88	50		DWR
8-4-64 0230		67	0.6	6		7.7																				Field determinations
9-17-64 0310		65	0.9	9		7.5																				Field determinations
9-17-64 1332		69	4.9	54	1575	7.6								235								385		20		Field determinations
SALINAS RIVER MILE 9.51 (STA. 259)																										
8-3-64 1250		71	0.0	0	1590	7.4 / 8.1	80 / 3.99	41 / 3.38	160 / 6.96	16 / 0.41	0 / 0.00	426 / 6.98	111 / 2.31	224 / 6.32	3.3 / 0.05		0.5		ABS = 4.9	882	47	369	20	40		DWR
8-4-64 0200		69	2.5	28		7.2																				Field determinations
9-17-64 0250		67	0.3	3		7.4																				Field determinations
9-17-64 1307		68	0.0	0	1628	7.3								235								350		42		Field determinations

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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TABLE D-2
ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
SALINAS RIVER NEAR SPRECKELS (STA. 43)																										
10-3-63 1545	7.0	68	4.4	48	1440	7.4 / 8.4		9.89c	122 / 5.31		12 / 0.40	602 / 9.87		145 / 4.09			0.2				35	494	0	15	62. 62.	USGS
11-7-63 0845	26	55	1.6	15	881	7.2 / 8.0		6.16c	53 / 2.31		0 / 0.00	356 / 5.83		57 / 1.61			0.2				27	308	16	1	230. 230.	
12-4-63 1530	64	52	8.1	73	654	7.6 / 8.0		5.12c	41 / 1.78		0 / 0.00	252 / 4.13		37 / 1.04			0.1				26	256	49	15	23. 23.	
1-7-64 1545	40	56	15.5	147	738	8.2 / 8.6		5.56c	46 / 2.00		16 / 0.53	247 / 4.05		52 / 1.47			0.2				26	278	49	10	23. 62.	
2-6-64 1630	450	54	11.1	103	352	8.1 / 7.8		2.92c	16 / 0.70		0 / 0.00	143 / 2.34		13 / 0.37			0.0				19	146	29	40	62. 62.	
3-4-64 1430	6.5	59	7.9	78	1620	7.9 / 8.2		12.36c	96 / 4.18		0 / 0.00	758 / 12.42		138 / 3.89			0.4				25	618	0	70	21. 62.	
4-7-64 1540	7.4	65	11.7	123	1630	7.8 / 8.3		11.56c	132 / 5.74		4 / 0.13	732 / 12.00		148 / 4.18			0.4				33	578	0	10	62. 62.	
5-7-64 0820	4.9	58	1.6	16	1590	7.5 / 7.5	133 / 6.64	48 / 3.96	132 / 5.74	38 / 0.97	0 / 0.00	686 / 11.24	53 / 1.10	152 / 4.29	45 / 0.73	0.9 / 0.05	0.4	47	As = 0.01 ABS = 2.3 PO_4 = 15	966	33	530	0	4	230. 230.	
6-10-64 1520	0.6	70	7.8	87	1380	7.4 / 7.8		7.40c	156 / 6.79		0 / 0.00	398 / 6.52		168 / 4.74			0.5				48	370	44	3	230. 62.	
7-8-64 1450	0.8	75	8.9	104	1140	7.3 / 8.0		5.20c	135 / 5.87		0 / 0.00	196 / 3.21		132 / 3.72			0.4				53	260	99	3	2400. 2400.	
8-6-64 1450	1.0	77	6.3	75	1150	7.3 / 7.4		5.28c	135 / 5.87		0 / 0.00	218 / 3.57		140 / 3.95			0.5		ABS = 6.0		53	264	85	10	7000. 2400.	
9-4-64 0850	0.6	64	1.7	18	1080	7.1 / 7.3	37 / 1.85	36 / 2.85	130 / 5.66	11 / 0.28	0 / 0.00	200 / 3.28	102 / 2.12	146 / 4.12	50 / 0.81		0.4	52	As = 0.01 ABS = 6.9 PO_4 = 47	690	53	235	71	7	23. 230.	

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH), Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-63 200 SPO

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in parts per million						equivalents per million						Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform h MPN/ml	Analyzed by i
			ppm	%Sat			Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents				Total ppm	N.C. ppm		
SAN BENITO RIVER NEAR BEAR VALLEY FIRE STATION (STA. 77a)																									
10-3-63						8.4			234		20	464		158			1.8							6.2	USGS
1530	0.2	78	9.4	117	1960	8.6		11.20c	10.18		0.67	7.60		4.46						48	560	147	1	230.	
11-6-63						8.2			415		69	470		304			2.9							13.	
1315	0.2	62	15.3	161	3150	8.6		16.00c	18.05		2.30	7.70		8.58						53	800	300	2	13.	
12-5-63						8.4			128		18	498		70			1.3							6.2	
1615	7.0	49	11.6	104	1370	8.5		10.36c	5.57		0.60	8.16		1.97						35	518	80	20	23.	
1-9-64						8.4			150		22	458		92			1.3							2.3	
1500	4.5	52	11.8	110	1510	8.7		10.24c	6.52		0.73	7.51		2.60						39	512	100	2	6.2	
2-5-64						8.4			133		39	436		78			1.2							6.2	
1510	6.2	54	10.0	96	1390	8.7		10.08c	5.79		1.30	7.15		2.20						36	504	81	50	2.3	
3-3-64						8.4			149		31	480		92			1.5							6.2	
1615	4.2	61	10.2	106	1520	8.6		11.08c	6.48		1.03	7.87		2.60						37	554	108	10	23.	
4-9-64						8.3			142		20	466		81			1.7							23.	
1630	6.4	72	10.0	118	1410	8.4		9.32c	6.18		0.67	7.64		2.29						40	466	51	25	6.2	
5-5-64						8.4	31	114	156	2.6	24	506	294	86	0.9	0.2	1.5	3.7	As = 0.00 ABS = 0.0					13.	
1320	3.9	62	10.5	111	1540	8.6	1.55	9.35	6.79	0.07	0.80	8.29	6.12	2.43	0.01	0.01			PO_4 = 0.00	995	38	545	91	4	62.	
6-9-64						8.4			226		41	474		140			1.8							6.2	
1515	0.9	67	10.2	114	1970	8.8		11.88c	9.83		1.37	7.77		3.95						45	594	136	0	23.	
7-7-64						8.4			272		28	452		165			2.0							.62	
1715	0.1	80	8.9	113	2100	8.6		11.04c	11.83		0.93	7.41		4.65						52	552	135	1	6.2	
8-5-64						8.4			244		41	488		160			2.1							2.3	
1000	0.03	80	12.4	158	2010	8.6		11.92c	10.61		1.37	8.00		4.51						47	596	127	3	9.5	
9-2-64						8.4	44	157	352	4.4	30	560	670	255	2.6		2.6	11	As = 0.00 ABS = 0.1					2.3	
1200	0.1	75	12.5	152	2740	8.3	2.20	12.92	15.31	0.11	1.00	9.18	13.95	7.19	0.04				PO_4 = 0.05	1880	50	756	248	1	6.2	

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR), as indicated.

32505-DHR 6-61 200 SPO

TABLE D-2
ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million												Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
			ppm	%Sat		a / b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)				Total ppm	N.C. ppm			
							equivalents per million																			
CARMEL RIVER AT ROBLES DEL RIO (STA. 83)																										
10-2-63						7.6			26		0	152		25			0.0								230.	USGS
1800	2.4	63	8.6	96	439	7.6		3.20c	1.13		0.00	2.49		0.71							26	160	35	1	23.	
11-8-63						7.4			21		0	150		18			0.0								6.2	
0940	14	56	10.0	96	382	8.1		2.98c	0.91		0.00	2.46		0.51							23	149	26	5	6.2	
12-4-63						7.6			17		0	122		14			0.0								6.2	
1440	28	54	10.4	97	311	8.1		2.44c	0.74		0.00	2.00		0.39							23	122	22	2	13.	
1-7-64						8.3			20		4	121		20			0.0								0.62	
1500	16	54	11.8	110	348	8.5		2.58c	0.87		0.13	1.98		0.56							25	129	23	1	2.3	
2-6-64						8.0			4.0		0	94		9.5			0.0								2.3	
1550	73	50	10.8	96	221	8.2		1.76c	0.17		0.00	1.54		0.27							9	88	11	1	.23	
3-4-64						8.1			15		3	106		15			0.1								2.3	
1520	23	55	11.2	106	275	8.4		2.16c	0.65		0.10	1.74		0.42							23	108	16	2	6.2	
4-7-64						8.3			13		0	107		11			0.0								2.3	
1445	48	60	11.0	111	269	8.2		2.04c	0.57		0.00	1.75		0.31							22	102	14	0	2.3	
5-7-64						6.8	28	9.2	15	2.1	0	113	32	14	0.7	0.2	0.0	23	As = 0.00						6.2	
0640	29	52	10.6	97	286	7.9	1.46	0.76	0.65	0.05	0.00	1.85	0.67	0.39	0.01	0.01			ABS = 0.1 PO_4 = 0.00	180	22	108	15	1	2.3	
6-10-64						8.4			16		2	114		13			0.2								5.	
1430	14	69	10.6	119	289	8.5		2.14c	0.70		0.07	1.87		0.37							25	107	10	0	6.2	
7-8-64						8.0			28		3	144		23			0.0								23.	
1400	0.1	76	13.2	159	456	8.4		3.50c	1.22		0.10	2.36		0.65							26	175	52	3	.23	
8-6-64																										
1340	DRY																									
9-4-64																										
0800	DRY																									

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-R 6-61 200 JPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen		Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million / equivalents per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
			ppm	%Sat		a / b	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents			Total ppm	N.C. ppm			
SALINAS RIVER NEAR BRADLEY (STA. 43c)																									
10-2-63						7.8			16		0	146		9.3			0.0							.62	USGS
1500	390	69	8.8	99	319	8.0		2.64c	0.70		0.00	2.39		0.26						21	132	12	1	2.3	
11-6-63						7.5			13		0	143		8.5			0.1							6.2	
1105	169	58	9.7	96	323	8.1		2.80c	0.57		0.00	2.34		0.24						17	140	23	3	2.3	
12-3-63						8.1			20		2	156		11			0.1							23.	
1440	193	56	10.1	97	383	8.3		3.12c	0.87		0.07	2.56		0.31					As = 0.00	22	156	25	5	2.3	
1-8-64						8.2			19		6	141		11			0.0							2.3	
1930	165	48	10.8	94	354	8.6		2.46c	0.83		0.20	2.31		0.31						22	148	23	10	5.0	
2-4-64						7.7			11		0	117		6.5			0.0							62.	
1740	694	53	10.6	99	272	8.1		2.30c	0.48		0.00	1.92		0.18						17	115	19	10	13.	
3-3-64						8.4			34		9	197		28			0.2							2.3	
1400	42	63	10.5	110	600	8.5		4.98c	1.48		0.30	3.23		0.79						23	249	74	10	6.2	
4-8-64						8.2			17		4	141		11			0.1							5.	
1435	177	65	9.3	100	360	8.5		3.02c	0.74		0.13	2.31		0.31						20	151	29	2	1.3	
5-5-64						8.0	29	13	11	1.6	0	130	33	7.3	1.4	0.4	0.1	14	As = 0.00 ABS = 0.0						
1045	263	56	10.2	99	288	7.8	1.45	1.08	0.48	0.04	0.00	2.13	0.69	0.21	0.02	0.02			PO_4 = 0.00	181	16	126	19	4	23.	
6-11-64						8.0			12		2	127		3.5			0.0							1.3	
0840	405	60	10.5	107	284	8.3		2.48c	0.52		0.07	2.08		0.10						17	124	17	2	6.2	
7-9-64						8.2			11		1	130		5.5			0.1							6.2	
1630	465	71	6.5	75	287	8.3		2.48c	0.48		0.03	2.13		0.16						16	124	16	3	6.2	
8-5-64						7.8			11		0	138		5.5			0.1							6.2	
0815	576	62	9.5	99	295	8.1		2.58c	0.48		0.00	2.26		0.16						16	129	16	2	62.	
9-2-64						7.8	32	13	10	1.9	0	142	30	5.8	0.9		0.1	11	As = 0.00 ABS = 0.0						
0920	546	61	9.3	96	303	7.9	1.60	1.10	0.44	0.05	0.00	2.33	0.62	0.16	0.01				PO_4 = 0.05	174	14	135	19	4	62.	

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

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32505-D-81 6-61 200 JPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ NC ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
												SAN ANTONIO RIVER NEAR PLEYTO (SIA. 43d)															
10-2-63 1340	DRY																									USGS
11-6-63 1020	0.2	63	10.4	109	504	8.0 / 8.5		___ 3.94c	34 / 1.48		6 / 0.20	196 / 3.21		22 / 0.62			0.1				27	197	26	1	23. 23.	
12-3-63 1530	30	58	9.5	94	426	8.1 / 8.3		___ 3.76c	17 / 0.74		4 / 0.13	172 / 2.82		9.0 / 0.25			0.1				16	188	40	2	2.3 6.2	
1-8-64 1900	13	48	10.1	88	439	7.8 / 8.5		___ 3.84c	19 / 0.83		7 / 0.23	169 / 2.77		13 / 0.37			0.0				18	192	42	0	2.3 6.2	
2-4-64 1700	67	59	10.8	108	385	8.2 / 8.4		___ 3.44c	13 / 0.57		3 / 0.10	156 / 2.56		11 / 0.31			0.0				14	172	39	1	6.2 2.3	
3-3-64 1300	25	63	10.3	108	419	8.1 / 8.4		___ 3.82c	40 / 1.74		6 / 0.20	164 / 2.69		12 / 0.34			0.1				31	191	47	10	13. 5.	
4-8-64 1520	16	75	8.6	103	423	8.3 / 8.6		___ 3.76c	17 / 0.74		7 / 0.23	163 / 2.67		10 / 0.28			0.1				16	188	43	1	62. 23.	
5-5-64 0945	11	59	11.0	110	433	8.4 / 8.4	52 / 2.59	15 / 1.25	18 / 0.78	1.6 / 0.04	3 / 0.10	178 / 2.92	57 / 1.19	12 / 0.34	1.2 / 0.02	0.3 / 0.02	0.0	29	As = 0.00 ABS = 0.1 PO_4 = 0.20	288	17	192	41	1	62. 6.2	
6-11-64 0930	0.2	75	11.2	134	455	8.4 / 8.4		___ 3.72c	23 / 1.00		4 / 0.13	178 / 2.92		15 / 0.42			0.1				21	186	33	0	50. 230.	
7-9-64	Ponded																									
8-5-64	Ponded																									
9-2-64 0845	DRY																									

a Field pH

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-H 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
NACIMIENTO RIVER NEAR SAN MIGUEL (STA. 43b)																										
10-2-63						8.3			7.2		3	113		5.4			0.1								23.	USGS
1515	400 est.	68	12.1	134	252	8.3		2.28c	0.31		0.10	1.85		0.15							12	114	16	4	23.	
11-6-63	@ Bradley					6.8			8.3		0	128		5.5			0.1								6.2	
0920	169	54	9.5	90	269	8.0		2.45c	0.36		0.00	2.10		0.16							13	122	17	1	2.3	
12-3-63	@ Bradley					8.4			8.1		0	126		4.0			0.1								0.23	
1645	193	57	12.1	118	264	8.2		2.42c	0.35		0.00	2.07		0.11							13	121	18	2	6.2	
1-8-64						8.4			8.5		5	115		6.0			0.1								2.3	
1800	500 est.	54	11.2	106	261	8.5		2.42c	0.37		0.17	1.88		0.17							13	121	19	5	.62	
2-4-64						8.0			7.3		0	100		5.0			0.0								.5	
1600	600 est.	57	11.9	117	220	8.2		1.96c	0.32		0.00	1.64		0.14							14	98	16	6	2.3	
3-3-64						7.6			11		5	156		11			0.1								62.	
1010	2.4	53	9.3	87	335	8.4		3.20c	0.48		0.17	2.56		0.31							13	160	24	20	6.2	
4-8-64						8.4			8.1		4	104		4.5			0.1								2.3	
1630	163	70	11.4	129	241	8.5		2.12c	0.35		0.13	1.70		0.13							14	106	14	1	2.3	
5-5-64						8.4	24	12	7.8	1.5	0	114	25	5.5	1.2	0.2	0.1	12	As = 0.00 ABS = 0.0						0.62	
0735	281	49	10.9	96	242	7.9	1.20	1.00	0.34	0.04	0.00	1.87	0.52	0.16	0.02	0.01			PO_4 = 0.00	152	13	110	17	4	0.62	
6-11-64						8.0			8.4		1	117		3.5			0.1								6.2	
1030	410	56	12.2	118	252	8.3		2.46c	0.37		0.03	1.92		0.10							13	123	25	1	6.2	
7-9-64						8.4			8.2		2	118		4.5			0.1								2.3	
1540	470	70	10.2	116	257	8.4		2.38c	0.36		0.07	1.93		0.13							13	119	19	2	2.3	
8-5-64						7.3			8.4		0	127		5.0			0.1								2.3	
0615	558	55	9.6	92	369	7.8		2.48c	0.37		0.00	2.08		0.14							13	124	20	1	5.	
9-2-64						7.3	31	12	8.6	2.1	0	134	24	5.2	0.9		0.1	10	As = 0.01 ABS = 0.0						2.3	
0750	514	59	8.2	82	279	7.7	1.55	0.97	0.37	0.05	0.00	2.20	0.50	0.15	0.01				PO_4 = 0.05	165	13	126	16	1	2.3	

o Field pH.

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR), as indicated.

32575-D-61 6-62 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

CENTRAL COASTAL REGION (NO. 3)

Date and time sampled P.S.T.	Discharge in cfs	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a/b	Mineral constituents in ppm / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
SALINAS RIVER AT PASO ROBLES (STA. 43a)																										
10-2-63 1300	DRY																									USGS
11-6-63 0830	DRY																									
12-3-63	DRY																									
1-8-64 1630	4.0	56	10.8	105	1010	8.2 / 8.4		7.08c	82 / 3.57		8 / 0.27	286 / 4.69		84 / 2.37			0.2				34	354	106	10	620. 230.	
2-4-64 1520	10	64	8.2	87	920	8.0 / 8.0		7.64c	50 / 2.18		0 / 0.00	308 / 5.05		54 / 1.52			0.0				22	382	129	2	230. 230.	
3-3-64 0910	6.0	48	11.2	98	1000	8.2 / 8.5		7.60c	78 / 3.39		6 / 0.20	330 / 5.41		64 / 1.81			0.4				31	380	100	20	6.2 2.3	
4-8-64 1810	8.9	70	6.2	70	951	8.4 / 8.0		7.68c	62 / 2.70		0 / 0.00	296 / 4.85		65 / 1.83			0.2				26	384	141	2	1300. 620.	
5-5-64 0645	DRY																									
6-11-64 1130	DRY																									
7-9-64	DRY																									
8-5-64	DRY																									
9-2-64 0730	DRY																									

a Field pH.

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves.

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

32505-D-B 6-61 200 SPO

TABLE D-2

ANALYSES OF SURFACE WATER

SOUTH BAY AQUEDUCT

Date and time sampled P.S.T	Water Elevation (feet)	Temp in °F	Dissolved oxygen ppm	Dissolved oxygen %Sat	Specific conductance (micromhos at 25°C)	pH a / b	Mineral constituents in ppm — Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonates (CO_3)	Bicarbonates (HCO_3)	Sulfates (SO_4)	Chlorides (Cl)	Nitrates (NO_3)	Fluorides (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$ Total ppm	Hardness as $CaCO_3$ NC ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
														equivalents per million												
BETHANY FOREBAY AT SOUTH BAY PUMPING PLANT (STA. 207)																										
10-28-63							25	13	50	2.9	0	106	38	74	2.6	0.1	0.19	18	Cu=0.02							DWR
1225					506	7.7	1.25	1.05	2.18	0.07	0.00	1.74	0.79	2.09	0.04	0.00			Zn=0.00	286	48	115	28			
12-2-63							24	14	54	2.6	0	97	45	76	2.1	0.2	0.30	16	Al=0.03 Pb=0.00							
1530	237.5				522	7.7	1.20	1.14	2.35	0.07	0.00	1.59	0.94	2.14	0.03	0.01			As=0.00 Mn=0.00 Cu=0.01 Zn=0.00	295	49	117	37			
1-6-64							26	13	60	2.1	0	90	56	81	2.5	0.2	0.38	14	Cu=0.02							
1410	229.9				551	7.4	1.30	1.04	2.61	0.05	0.00	1.48	1.16	2.28	0.04	0.01			Zn=0.00	314	52	117	43			
2-3-64							26	14	63	2.1	0	93	62	88	2.4	0.0	0.40	13	Cu=0.00							
1345					588	7.8	1.30	1.18	2.74	0.05	0.00	1.52	1.29	2.48	0.04	0.00			Zn=0.00	333	52	124	48			
3-2-64							38	21	87	3.5	0	106	102	128	4.0		0.40		Cu=0.00							
1330	231.0				815	7.8	1.90	1.72	3.78	0.09	0.00	1.74	2.12	3.61	0.06				Zn=0.00	474	50	181	94			
4-1-64							33	16	62	3.0	0	98	66	90	3.3		0.20		Cu=0.00							
1530	234.7				616	7.7	1.65	1.29	2.70	0.08	0.00	1.61	1.37	2.54	0.05				Zn=0.00	349	47	147	67			
5-1-64							30	17	59	2.7	0	113	60	80	3.1		0.30		Cu=0.00							
1430					585	7.8	1.50	1.38	2.57	0.07	0.00	1.85	1.25	2.26	0.05				Zn=0.00	328	46	144	51			
6-1-64							25	11	35	2.5	0	88	34	55	0.7		0.20		Cu=0.00							
1045	233.9				406	8.1	1.25	0.89	1.52	0.06	0.00	1.44	0.71	1.55	0.01				Zn=0.00	218	41	107	35			
7-1-64							17	11	30	2.1	0	87	28	35	1.7		0.10		Al=0.07 Pb=0.00							
1020	232.6				322	8.1	0.85	0.89	1.30	0.05	0.00	1.42	0.58	0.99	0.03				As=0.00 Mn=0.00 Cu=0.00 Zn=0.00 Fe=0.32	183	42	87	16			
8-1-64							16	12	38	2.3	0	83	22	58	0.4		0.20									
0845	230.3				382	8.0	0.80	1.00	1.65	0.06	0.00	1.36	0.46	1.64	0.01					217	47	90	22			
9-1-64							18	15	64	3.1	0	88	33	109	0.6		0.10									
0930	230.6				566	8.1	0.90	1.26	2.78	0.08	0.00	1.44	0.69	3.07	0.01					311	55	108	36			

a Field pH

b Laboratory pH

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as 0.0 / 0.00 except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents

g Gravimetric determination

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS), United States Department of the Interior, Bureau of Reclamation (USBR), United States Public Health Service (USPHS), San Bernardino County Flood Control District (SBCFCD), Metropolitan Water District of Southern California (MWD), Los Angeles Department of Water and Power (LADWP), City of Los Angeles, Department of Public Health (LADPH), City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc (TTL), or California Department of Water Resources (DWR), as indicated.

TABLE D-2

ANALYSES OF SURFACE WATER

SOUTH BAY AQUEDUCT

Date and time sampled P.S.T	Water Elevation (feet)	Temp in °F	Specific location of collection	Specific conductance (micromhos at 25°C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Turbidity in ppm	Coliform[h] MPN/ml	Analyzed by[i]
						LIVERMORE CANAL AT PATTERSON RESERVOIR (STA. 214)																			
10-28-63 1620			Reservoir	563								41 / 0.85	85 / 2.40						325		132				DWR
12-2-63 1300			Reservoir	547			2.56c					44 / 0.92	79 / 2.23					As=0.00 Cu=0.00 Zn=0.00	304		128				
1-6-64 1520	708.8		Canal	515			2.10c					45 / 1.27	79 / 2.23						270		105				
2-3-64 1645			Reservoir	528			2.26c					51 / 1.06	79 / 2.23						282		113				
3-2-64 1600	707.5		Reservoir	613			2.70c					64 / 1.33	92 / 2.60					ABS=0.0	333		135				
4-1-64 1600	706.0		Reservoir	652			2.96c					67 / 1.39	98 / 2.76						360		148				
5-1-64 1250			Reservoir	618			3.02c					67 / 1.39	90 / 2.54						349		151				
6-1-64 1330	708.3		Reservoir	472			2.46c					44 / 0.92	64 / 1.80						259		123				
7-1-64 1030	709.0		Canal	330			1.78c					26 / 0.54	37 / 1.04						186		89				
8-1-64 1415	708.2		Canal	376			1.76c					24 / 0.50	54 / 1.52						214		88				
9-1-64 1445	707.9		Canal	576			2.18c					31 / 0.64	104 / 2.93						302		109				

a Field pH.

b Laboratory pH.

c Sum of calcium and magnesium in epm.

d Iron (Fe), aluminum (Al), arsenic (As), copper (Cu), lead (Pb), manganese (Mn), zinc (Zn), and hexavalent chromium (Cr^{+6}), reported here as $\frac{0.0}{0.00}$ except as shown.

e Derived from conductivity vs TDS curves

f Determined by addition of analyzed constituents.

g Gravimetric determination.

h Annual median and range, respectively. Calculated from analyses of duplicate monthly samples made by California Department of Public Health, Division of Laboratories, or United States Public Health Service.

i Mineral analyses made by United States Geological Survey, Quality of Water Branch (USGS); United States Department of the Interior, Bureau of Reclamation (USBR); United States Public Health Service (USPHS); San Bernardino County Flood Control District (SBCFCD); Metropolitan Water District of Southern California (MWD); Los Angeles Department of Water and Power (LADWP); City of Los Angeles, Department of Public Health (LADPH); City of Long Beach, Department of Public Health (LBDPH); Terminal Testing Laboratories, Inc. (TTL); or California Department of Water Resources (DWR); as indicated.

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TABLE D-3

SUMMARY OF COLIFORM ANALYSES

Station	Station Number	Coliform MPN/ml		
		Maximum	Median	Minimum
North Coastal Region (No. 1)				
Gualala River, South Fork, near Annapolis	9a	2,400	3.0	0.2
Navarro River near Navarro	8b	1,300	6.2	0.50
Noyo River near Fort Bragg	10c	2,400	13	0.62
Russian River, East Fork, at Potter Valley Powerhouse	10a	50	2.3	0.62
Russian River at Guerneville	10	2,400	13	0.62
Russian River near Healdsburg	9	230	23	0.62
Russian River near Hopland	8a	620	23	2.3
San Francisco Bay Region (No. 2)				
Alameda Creek near Niles	73	620	23	2.3
Coyote Creek near Madrone	82	620	23	0.62
Los Gatos Creek near Los Gatos	74	230	6.2	0.23
Napa River near St. Helena	72	7,000	62	1.3
Central Coastal Region (No. 3)				
Carmel River at Robles del Rio	83	230	5.6	0.23
Nacimiento River near San Miguel	43b	62	2.3	0.23
Pajaro River near Chittenden	77	230	6.2	2.3
Salinas River near Bradley	43c	62	6.2	0.23
Salinas River at Paso Robles	43a	1,300	230	2.3
Salinas River near Spreckels	43	7,000	62	21
San Antonio River near Pleyto	43d	230	9.6	2.3
San Benito River near Bear Valley Fire Station	77a	230	6.2	0.62
San Lorenzo River at Big Trees near Felton	75	130	6.2	1.3
Soquel Creek at Soquel	76	62	22	2.3
Uvas Creek near Morgan Hill	96	230	5.4	0.13

TABLE D-4
SPECTROGRAPHIC ANALYSES OF SURFACE WATER

Station	Sta No	Date	Constituents in parts per billion															
			Aluminum (Al)	Beryllium (Be)	Bismuth (Bi)	Cadmium (Cd)	Cobalt (Co)	Chromium (Cr)	Copper (Cu)	Iron (Fe)	Gallium (Ga)	Germanium (Ge)	Manganese (Mn)	Molybdenum (Mo)	Nickel (Ni)	Lead (Pb)	Titanium (Ti)	Vanadium (V)	Zinc (Zn)
NORTH COASTAL REGION (No. 1)																		
RUSSIAN RIVER AT GUERNEVILLE	10	5-14-64	≦1.2	<0.50	<0.25	<1.2	<1.2	<1.2	<1.2	1.2	<5.0	<0.25	<1.2	≦0.25	1.2	<1.2	<0.50	2.0	<5.0
RUSSIAN RIVER AT GUERNEVILLE	10	9-4-64	3.7	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	5.4	<5.7	<0.29	<1.4	≦0.29	0.83	<1.4	<0.57	1.7	<5.7
SAN FRANCISCO BAY REGION (No. 2)																		
ALAMEDA CREEK NEAR NILES	73	5-5-64	≦1.4	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	2.2	<5.7	<0.29	<1.4	1.4	1.5	<1.4	<0.57	2.8	<5.7
ALAMEDA CREEK NEAR NILES	73	9-2-64	7.7	<0.57	<0.29	<1.4	≦1.4	<1.4	≦1.4	6.6	<5.7	<0.29	<1.4	1.7	1.1	<1.4	<0.57	7.1	<5.7
ARROYO DEL VALLE NEAR LIVERMORE	71	5-4-64	≦1.4	<0.57	<0.29	<1.4	≦1.4	<1.4	≦1.4	1.9	<5.7	<0.29	<1.4	0.69	0.54	<1.4	<0.57	0.40	<5.7
COYOTE CREEK NEAR MADRONE	82	5-7-64	≦1.4	<0.57	<0.29	<1.4	≦1.4	<1.4	<1.4	2.1	<5.7	<0.29	<1.4	≦0.29	1.9	<1.4	<0.57	0.74	<5.7
COYOTE CREEK NEAR MADRONE	82	9-4-64	11	<0.57	<0.29	<1.4	<1.4	<1.4	≦1.4	2.8	<5.7	<0.29	<1.4	1.1	2.0	<1.4	<0.57	1.7	<5.7
NAPA RIVER NEAR ST. HELENA	72	5-12-64	≦1.2	<0.50	<0.25	<1.2	<1.2	<1.2	1.6	2.5	<5.0	<0.25	<1.2	≦0.25	1.6	<1.2	<0.50	1.9	<5.0
NAPA RIVER NEAR ST. HELENA	72	9-2-64	3.4	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	3.4	<5.7	<0.29	<1.4	≦0.29	1.1	<1.4	<0.57	<0.29	<5.7
CENTRAL COASTAL REGION (No. 3)																		
PAJARO RIVER AT CHITTENDEN	77	5-7-64	6.6	<0.57	<0.29	<1.4	≦1.4	<1.4	≦1.4	2.1	<5.7	<0.29	<1.4	1.9	7.1	<1.4	<0.57	2.9	<5.7
PAJARO RIVER AT CHITTENDEN	77	9-4-64	8.3	<0.57	<0.29	<1.4	≦1.4	<1.4	≦1.4	4.6	<5.7	<0.29	<1.4	4.3	7.4	<1.4	<0.57	4.6	<5.7
SALINAS RIVER NEAR SPRECKELS	43	5-7-64	≦1.4	<0.57	<0.29	<1.4	≦1.4	<1.4	≦1.4	6.0	<5.7	<0.29	13	9.7	5.1	≦1.4	<0.57	1.3	≦5.7
SALINAS RIVER NEAR SPRECKELS	43	9-4-64	4.6	<0.57	<0.29	<1.4	<1.4	<1.4	21	30	<5.7	<0.29	12	19	3.7	<1.4	<0.57	1.4	<5.7

TABLE D-5

RADIOASSAYS OF SURFACE WATER

STATION	STA. NO.	DATE	PICO CURIES PER LITER			
			DISS. ALPHA	SOLID ALPHA	DISS. BETA	SOLID BETA
REGION (NO. 1)						
BIG RIVER NEAR MOUTH	8c	5-15-64	-0.53 ± 0.26	0.68 ± 0.89	1.60 ± 11.15	0.88 ± 8.37
BIG RIVER NEAR MOUTH	8c	9-3-64	-0.70 ± 0.32	0.17 ± 0.91	9.53 ± 11.28	2.91 ± 7.91
GUALALA RIVER, SOUTH FORK NEAR ANNAPOLIS	9a	5-14-64	1.02 ± 1.39	-0.25 ± 0.34	1.48 ± 11.34	-1.97 ± 8.10
GUALALA RIVER, SOUTH FORK NEAR ANNAPOLIS	9a	9-4-64	0.32 ± 1.12	-0.29 ± 0.61	-9.00 ± 11.10	-4.27 ± 7.61
NAVARRO RIVER NEAR NAVARRO	8b	5-14-64	-0.13 ± 0.96	-0.33 ± 0.42	4.68 ± 11.41	-1.08 ± 0.62
NAVARRO RIVER NEAR NAVARRO	8b	9-4-64	-0.96 ± 0.39	-0.12 ± 0.72	-3.00 ± 11.09	6.70 ± 7.97
NOYO RIVER NEAR FORT BRAGG	10c	5-14-64	-0.32 ± 0.26	-0.33 ± 0.42	6.71 ± 9.66	3.87 ± 8.74
NOYO RIVER NEAR FORT BRAGG	10c	9-4-64	0.05 ± 0.97	0.14 ± 0.91	-1.42 ± 10.79	2.90 ± 7.82
RUSSIAN RIVER, EAST FORK AT POTTER VALLEY POWERHOUSE	10a	5-12-64	-0.38 ± 0.74	-0.03 ± 0.59	-2.61 ± 11.12	-1.60 ± 8.71
RUSSIAN RIVER, EAST FORK AT POTTER VALLEY POWERHOUSE	10a	9-2-64	0.70 ± 1.37	-0.43 ± 0.46	-8.06 ± 9.47	-6.56 ± 8.45
RUSSIAN RIVER AT GUERNEVILLE	10	5-14-64	-0.50 ± 0.64	-0.33 ± 0.42	-3.19 ± 11.33	4.66 ± 8.89
RUSSIAN RIVER AT GUERNEVILLE	10	9-4-64	-0.32 ± 1.05	-0.12 ± 0.93	0.78 ± 11.31	-3.96 ± 9.00
RUSSIAN RIVER NEAR HEALDSBURG	9	5-12-64	-1.07 ± 0.45	0.27 ± 0.84	0.75 ± 10.51	-7.65 ± 8.58

TABLE D-5

RADIOASSAYS OF SURFACE WATER

STATION	STA. NO.	DATE	PICO CURIES PER LITER			
			DISS. ALPHA	SOLID ALPHA	DISS. BETA	SOLID BETA
REGION (NO. 1)						
RUSSIAN RIVER NEAR HEALDSBURG	9	9-2-64	-1.23 ± 0.45	-0.81 ± 0.29	-2.12 ± 10.10	-3.80 ± 7.60
RUSSIAN RIVER NEAR HOPLAND	8a	5-12-64	-0.33 ± 0.26	1.34 ± 1.10	4.10 ± 9.00	-1.54 ± 9.25
RUSSIAN RIVER NEAR HOPLAND	8a	9-2-64	-0.76 ± 0.76	-0.43 ± 0.46	-1.60 ± 10.10	1.17 ± 8.71
REGION (NO. 2)						
ALAMEDA CREEK NEAR NILES	73	5-5-64	0.50 ± 1.01	1.19 ± 1.20	14.67 ± 10.98	-3.13 ± 10.17
ALAMEDA CREEK NEAR NILES	73	9-2-64	-1.77 ± 1.38	-0.57 ± 0.48	4.96 ± 13.14	-9.30 ± 7.84
ARROYO DEL VALLE NEAR LIVERMORE	71	5-4-64	0.19 ± 1.41	-0.08 ± 0.61	-11.89 ± 9.63	-4.60 ± 9.61
COYOTE CREEK NEAR MADRONE	82	5-7-64	-0.18 ± 0.80	0.62 ± 1.00	-3.64 ± 9.39	3.49 ± 9.81
COYOTE CREEK NEAR MADRONE	82	9-4-64	-0.81 ± 1.87	-0.25 ± 0.44	-9.56 ± 12.17	-2.88 ± 8.63
LOS GATOS CREEK NEAR LOS GATOS	74	5-6-64	-0.85 ± 1.17	0.23 ± 0.65	-1.56 ± 13.62	4.61 ± 8.99
LOS GATOS CREEK NEAR LOS GATOS	74	9-3-64	0.40 ± 3.14	0.21 ± 0.81	-1.01 ± 13.14	-5.38 ± 9.05
NAPA RIVER NEAR ST. HELENA	72	5-12-64	-0.50 ± 0.27	0.23 ± 0.65	-0.01 ± 12.11	9.72 ± 9.48
NAPA RIVER NEAR ST. HELENA	72	9-2-64	-0.40 ± 0.88	0.20 ± 0.70	5.89 ± 12.46	9.42 ± 8.80

TABLE D-5

RADIOASSAYS OF SURFACE WATER

STATION	STA. NO.	DATE	PICO CURIES PER LITER			
			DISS. ALPHA	SOLID ALPHA	DISS. BETA	SOLID BETA
REGION (NO. 3)						
CARMEL RIVER AT ROBLES DEL RIO	83	5-7-64	-0.28 ± 0.55	-0.15 ± 0.56	1.44 ± 11.36	-1.68 ± 8.66
NACIMIENTO RIVER NEAR SAN MIGUEL	43b	5-5-64	0.06 ± 1.07	0.22 ± 0.75	-4.31 ± 11.53	-7.08 ± 8.45
NACIMIENTO RIVER NEAR SAN MIGUEL	43b	9-2-64	0.23 ± 1.13	-0.35 ± 0.45	10.27 ± 11.64	-0.77 ± 9.21
PAJARO RIVER NEAR CHITTENDEN	77	5-7-64	2.01 ± 4.66	-0.06 ± 0.50	12.37 ± 14.86	3.67 ± 8.38
PAJARO RIVER NEAR CHITTENDEN	77	9-4-64	-5.12 ± 4.31	-0.07 ± 0.72	-1.15 ± 13.67	-5.83 ± 8.58
SALINAS RIVER NEAR BRADLEY	43c	5-5-64	-0.12 ± 0.97	0.22 ± 0.76	9.35 ± 11.66	1.73 ± 8.84
SALINAS RIVER NEAR BRADLEY	43c	9-2-64	-0.40 ± 1.06	0.24 ± 0.81	-1.85 ± 10.45	-3.88 ± 8.69
SALINAS RIVER NEAR SPRECKELS	43	5-7-64	-0.35 ± 5.49	-0.21 ± 0.68	-0.84 ± 16.03	6.74 ± 9.01
SALINAS RIVER NEAR SPRECKELS	43	9-4-64	-0.91	0.74 ± 0.97	28.00 ± 14.41	-0.44 ± 2.55
SAN ANTONIO RIVER NEAR PLEYTO	43d	5-5-64	-0.16 ± 1.09	-0.15 ± 0.55	1.80 ± 11.03	-1.81 ± 8.57
SAN BENITO RIVER NEAR BEAR VALLEY FIRE STATION	77a	5-5-64	1.65 ± 5.62	-0.15 ± 0.56	14.74 ± 16.16	7.51 ± 9.02
SAN BENITO RIVER NEAR BEAR VALLEY FIRE STATION	77a	9-2-64	-4.61 ± 8.24	-0.05 ± 0.59	-26.01 ± 33.22	-3.17 ± 8.62
SAN LORENZO RIVER AT BIG TREES NEAR FELTON	75	5-6-64	0.41 ± 1.14	-0.52 ± 0.22	6.57 ± 12.64	0.97 ± 8.74

TABLE D-5

RADIOASSAYS OF SURFACE WATER

STATION	STA. NO.	DATE	PICO CURIES PER LITER			
			DISS. ALPHA	SOLID ALPHA	DISS. BETA	SOLID BETA
REGION (NO. 3)						
SAN LORENZO RIVER AT BIG TREES NEAR FELTON	75	9-3-64	0.15 ± 1.02	0.33 ± 0.84	-3.18 ± 10.27	-1.80 ± 8.43
SOQUEL CREEK AT SOQUEL	76	5-6-64	-0.16 ± 1.80	-0.34 ± 0.46	0.48 ± 13.58	-4.14 ± 8.52
SOQUEL CREEK AT SOQUEL	76	9-3-64	2.60 ± 3.94	-0.46 ± 0.46	-9.98 ± 12.87	-10.05 ± 8.38
UVAS CREEK NEAR MORGAN HILL	96	5-7-64	0.51 ± 1.12	0.21 ± 0.75	1.37 ± 10.39	10.05 ± 10.64
UVAS CREEK NEAR MORGAN HILL	96	9-4-64	-0.41 ± 1.33	-0.57 ± 0.48	-9.91 ± 11.75	-4.77 ± 7.77

TABLE D-6

DESCRIPTION OF SALINITY OBSERVATION STATION

1963-64 Water Year

STATION	Miles from Golden Gate (a)	Time Interval (b) Hours	Min	LOCATION
Crockett - San Pablo Bay	27.7	3	30	West end of Carquinez Strait, south shore, 0.2 mile east of Carquinez Bridge on wharf of C and H Sugar Refinery Corporation.
Martinez - Carquinez Strait	33.1	3	50	Sampled from Shell Oil Company dock, about 0.6 mile downstream from Southern Pacific Company railroad bridge.
Port Chicago - Suisun Bay	41.0	4	20	South shore of Suisun Bay at U. S. Naval ammunition loading wharf below Port Chicago.
Middle Point - Suisun Bay	41.5	4	30	South shore of Suisun Bay at Allied Chemical Plant intake, about 0.5 mile upstream from Middle Point.
Pittsburg - Suisun Bay	48.0	5	00	East end of Suisun Bay, south shore, at Pittsburg Yacht Harbor.
Spoonbill Creek - Suisun Bay	48.9	5	05	At Sacramento Northern Railroad crossing.
Collinsville - Sacramento River	50.8	5	25	Sacramento River, north bank at junction with San Joaquin River.

MAXIMUM OBSERVED SALINITY AT BAY AND DELTA STATIONS

In parts of chloride per million parts of water*

STATION	WATER YEAR 1931	1938	1939	1944 c	1952	1955	1956 d	1958	1959	1962	1963	1964
Sacramento — San Joaquin Delta System Unimpaired Runoff in Percent of Average (e)	35	191	50	63	171	64	178	169	67	93	132	63
Crockett					13200	16600	15300	11900	15000	13900	13100	14600
Martinez	16900	11600	16400		8900	11900	11900	7150	10200	12700	11500	12900
Port Chicago					6900	12500	9750	5830	15640	9370	9200	10700
Middle Point***												10100
Pittsburg					1200	7800	3440	1200	5110	3980	1350	3280
Spoonbill Creek**	13900	2560	11800	7300	2800	6400	4040	930	6270	3540	2940	2980
Collinsville	12600	860	10400	4700	783	3880	2280	550	5430	2430	1980	3730

* Ocean water contains approximately 18,200 parts per million of chloride.
** Station discontinued December 1963.
*** Station initiated January 1964.
a Mileage measured to station along main channel. For stations off the main channel, the mileage shown is the same distance along the main channel to a point whereon the time of the occurrence of the tidal phase is the same as that of the observation station.
b Time interval between high tide at Golden Gate and time for taking samples at station.
c Releases of stored water from Shasta Lake commenced in 1944.
d Releases of stored water from Folsom Reservoir commenced in 1956.
e Average taken as mean annual unimpaired flow at foothill stations of major tributaries for 50-year period October 1910 through September 1960.

TABLE D-7

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

In parts of chloride per million parts of water

STATION	DATE							
	10-2-63	10-6-63	10-10-63	10-14-63	10-18-63	10-22-63	10-26-63	10-30-63
Crockett	11200			10400	9800	9220	8040	10400
Martinez	5880	8820	a7160	7740	7840	e6280	6860	7350
Port Chicago	4510	1960	6180	3950	2740	3380	2940	4020
Pittsburg	bd233		e235	169		a142	d71	116
Spoon Bill Creek	e657	480	e569	407			220	419
Collinsville	e230	230	a76	82	e41	a25	e20	87

STATION	DATE							
	11-2-63	11-6-63	11-10-63	11-14-63	11-18-63	11-22-63	11-26-63	11-30-63
Crockett	11300		6760	10000	7450	4510	5980	7600
Martinez	10700	a7840	ee4410	7840	6220	e4120	6470	6130
Port Chicago	5490		2160		1810	470	1470	1950
Pittsburg			bd88		45	a31		
Spoon Bill Creek	485	2980		108				26
Collinsville	336	167	36	27	22	15		

STATION	DATE							
	12-2-63	12-6-63	12-10-63	12-14-63	12-18-63	12-22-63	12-26-63	12-30-63
Crockett	6860	5490	7450	7400	7500	6180	ee7200	
Martinez	3870	4260	4070	2840	6810	4750		5930
Port Chicago		529	3240	2720		1790	4510	3530
Pittsburg			28			41		59
Spoon Bill Creek	45	31						
Collinsville	11		14	13	a12		19	37

STATION	DATE							
	1-2-64	1-6-64	1-10-64	1-14-64	1-18-64	1-22-64	1-26-64	1-30-64
Crockett							5200	4610
Martinez	4800	7650	8480	7940	6180	3430	6030	1470
Port Chicago	3280	3280	3870			2060		ebd64
Middle Point	1400	2350	3240	3680	3040	1520	451	58
Pittsburg	72	56	52	bd74		94	38	30
Collinsville	e21	34	23	113	30	28	14	15

* 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 scheduled time.
e Taken on preceding day.
f Taken two days earlier.

TABLE D-7

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

in parts of chloride per million parts of water

STATION	DATE							
	2-2-64	2-6-64	2-10-64	2-14-64	2-18-64	2-22-64	2-26-64	2-30-64
Crockett	3870	6320	7400	7200	6080	8040		
Martinez		4460	d2110	6620	4850			
Port Chicago	52	868	3580	2010	882	bd3190	2200	
Middle Point	34	515	2940	1720	a181	3580	2550	
Pittsburg	44	41		45	45	46	bd68	
Collinsville	16	24	19	20	18	29	19	

STATION	DATE							
	3-2-64	3-6-64	3-10-64	3-14-64	3-18-64	3-22-64	3-26-64	3-30-64
Crockett	8630	7650	9610	9800	10800	10000	9220	10100
Martinez	5100	6370	7450	7740	8140	ae7260	6370	a6270
Port Chicago	2110	2400	4460	3630	5240	6180	2740	3920
Middle Point	1620	1370	3870	2790	4900			1720
Pittsburg	a77		bd111		a174	bd343	bd216	abd189
Collinsville	42	24	75		372	274	176	198

STATION	DATE							
	4-2-64	4-6-64	4-10-64	4-14-64	4-18-64	4-22-64	4-26-64	4-30-64
Crockett	9410	7840	10800	8430	10300	10700	11400	11600
Martinez	7650	5780	8240	6860	10200	9020	9410	9410
Port Chicago	3820	2500	a3770	6080	7200	bd6270	6570	6760
Middle Point	2990	1720	3480	5640		4800	5340	d5830
Pittsburg	abd74	152	a122	a255	618	a622		a672
Collinsville	179	34	a39	a113	613	a672	a706	1410

STATION	DATE							
	5-2-64	5-6-64	5-10-64	5-14-64	5-18-64	5-22-64	5-26-64	5-30-64
Crockett	10900	e10400	11800	12600	11000	11600	10700	
Martinez	9100	9300	9610	9900	a8430	9020	10200	a7840
Port Chicago			6370	ed7990	abd4560	5540	6760	5200
Middle Point		5050	5740	6670		a2110	5440	3920
Pittsburg	1040	a720	a470	a529	a564	a333	a397	
Collinsville	1120	a539	a539	1540	a470	a211	a326	

* 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 scheduled time.
e Taken on preceding day.
f Taken two days earlier.

TABLE D-7

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

In parts of chloride per million parts of water

STATION	DATE							
	6-2-64	6-6-64	6-10-64	6-14-64	6-18-64	6-22-64	6-26-64	6-30-64
Crockett		12000	11800		e11600	10900	13400	11200
Martinez	8490	10400	10400		e7690	9330	ed9420	10300
Port Chicago	b3240	bd7170	7790	ed6370	6340	7600	9120	
Middle Point		5460	3530	5690	2400	3940		5480
Pittsburg	a356	a393	abd853	ebd774	a510	e577	d2280	
Collinsville	a333	a394	e755	1050	e404	a510	a1560	1840

STATION	DATE							
	7-2-64	7-6-64	7-10-64	7-14-64	7-18-64	7-22-64	7-26-64	7-30-64
Crockett	12300	a12000	13500	13200	e13800	14000	14600	13800
Martinez	e8670	10300	12200	a11700		e9250		
Port Chicago	7400	8020	9810	8060	a9380	9980	10200	9250
Middle Point	5350	8560	8480	7040	8620	8520	9000	8170
Pittsburg	abd1400			1650	e1780		a2220	2340
Collinsville	a1160	a1500		a2750	a1850	a2360		a2890

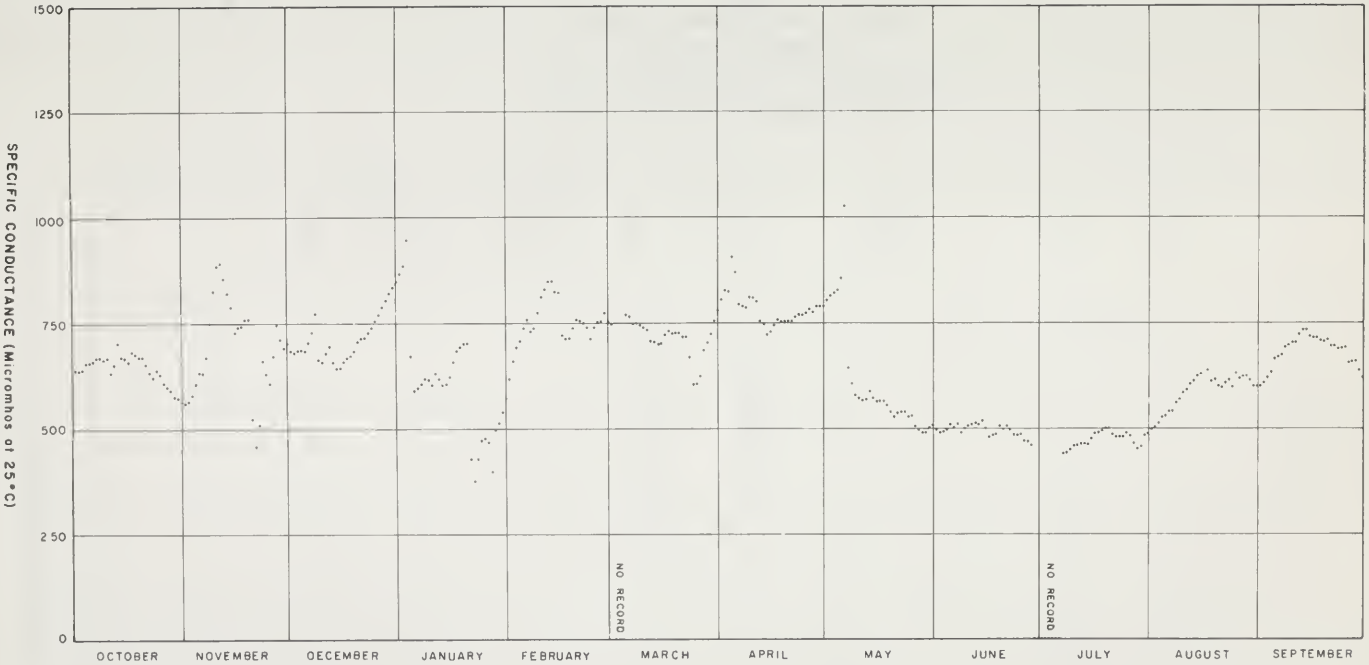
STATION	DATE							
	8-2-64	8-6-64	8-10-64	8-14-64	8-18-64	8-22-64	8-26-64	8-30-64
Crockett	e14100	14100		a14100	e14200		13200	
Martinez		12900	9960	e10100	a10200	12200	11400	a9820
Port Chicago	e9620	e7710	9580	10600	10000	ed10700		11200
Middle Point		d7630	8900	8750	6540	9410	7670	10100
Pittsburg	a2270		3280	a2570			bd2160	ad1960
Collinsville	a2250	a2570	3730	a2410		a2550		

STATION	DATE							
	9-2-64	9-6-64	9-10-64	9-14-64	9-18-64	9-22-64	9-26-64	9-30-64
Crockett	e11900	13000	10800	9840	11600	11400	12700	e9990
Martinez	a6130	10700	9260	a6180	a8780	a7640	a7380	e8600
Port Chicago	8440	9050	6130	4390	6910	5890	7560	e6120
Middle Point	6300	8100	5090	4580	d3080	4230	6290	
Pittsburg	abd1290		a830	a684	a425		a687	a412
Collinsville		a1570	1040	a334	a392	a340	a697	

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

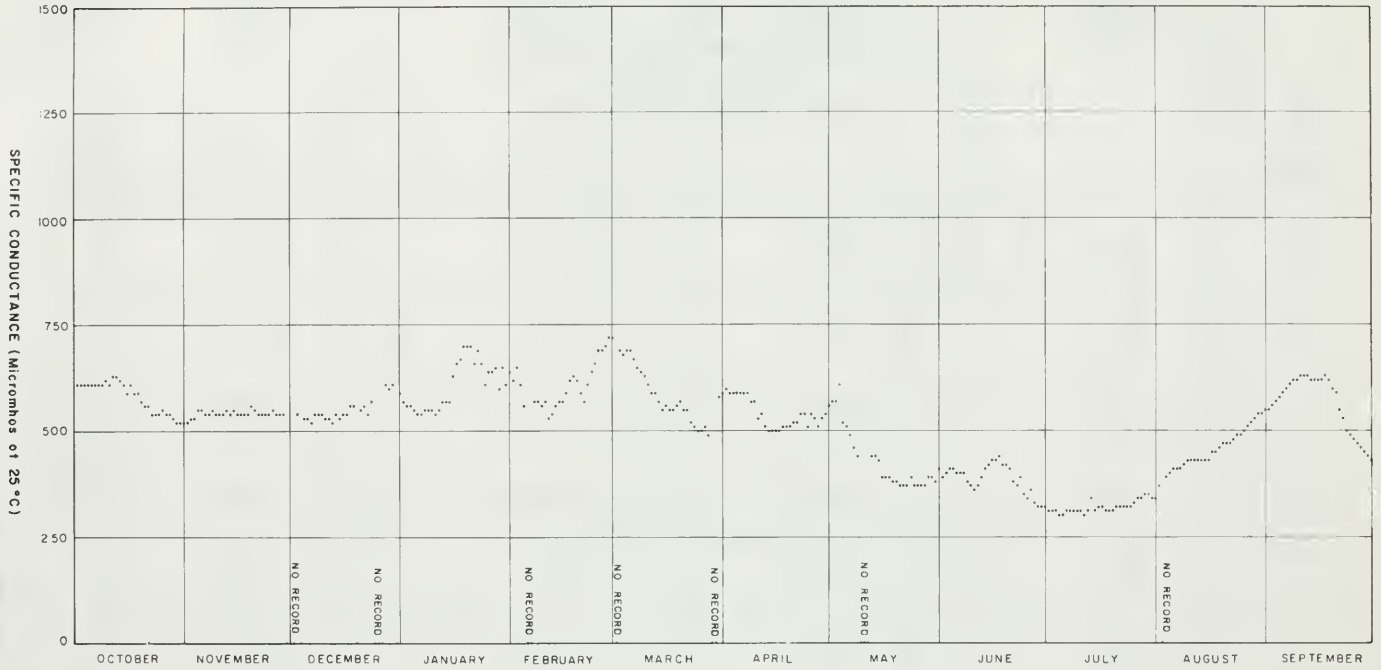
a Taken after low high tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.

FIGURE D-1



ELECTRICAL CONDUCTANCE
DAILY MEAN
ALAMEDA CREEK NEAR NILES (STA 73)
1964

FIGURE D-2



ELECTRICAL CONDUCTANCE
DAILY READINGS AT 1300 HOURS

BETHANY FOREBAY AT
SOUTH BAY PUMPING PLANT (STA 207)

1964

APPENDIX E

GROUND WATER QUALITY

ACKNOWLEDGMENTS

The Department of Water Resources gratefully acknowledges the assistance and contributions of the many public agencies, private organizations, and individuals whose cooperation greatly facilitated the preparation of this appendix. Special mention is made of the following agencies:

State

California Department of Public Health

California Disaster Office

Local

Alameda County Flood Control and Water Conservation District

Alameda County Water District

Mendocino County

Monterey County Flood Control and Water Conservation District

Santa Clara Valley Water Conservation District

Sonoma County Flood Control and Water Conservation District

INTRODUCTION

Data presented in this appendix are measured values of selected quality characteristics of ground water samples collected in the Central Coastal Area during the period from July 1, 1963, through June 30, 1964. It consists of a table showing results of analyses of ground water and a table showing results of radioassay of ground water. Wells and ground water basins are numbered in accordance with the system described in Appendix C. The data are presented in water pollution control board region, ground water basin and well number order.

Analyses of Ground Water

Tabulated values for dissolved minerals are the analytical quantity reported in parts per million (ppm) and a computed value for equivalents per million (epm). Electrical conductivity is reported as micromhos at 25°C and water temperature is reported in degrees Fahrenheit. Values for temperature are those measured in the field at the time of sampling. Laboratory analyses of ground water were performed by the Department of Water Resources and the United States Geological Survey, all in accordance with "Standard Methods for the Examination of Water and Waste Water", 11th Edition, or with U. S. Geological Survey Water Supply Paper 1454, "Methods for Collection and Analyses of Water Samples". The methods yield comparable accuracy. Heavy metal concentrations were determined by "wet" analyses.

Table E-1 presents analyses of ground water. Definitions of abbreviations used in this table are as follows:

1. TDS---Total dissolved solids by gravimetric determination at 180°C
2. T.O.--Odor.

3. ABS---Alkyl benzene sulfonate.

4. DWR---Department of Water Resources.

5. USGS--United States Geological Survey.

Radioassay of Ground Water

Radioassay of ground water are presented in Table E-2. Determinations were made by the California Disaster Office and the Department of Public Health of suspended alpha and beta activities and dissolved alpha and beta activities in some samples and for gross activity in other samples. The samples through December 1963 were analyzed by the California Disaster Office. Samples taken after this time were analyzed by the Department of Public Health. Negative values of measured activity in some analyses reported by the Department of Public Health resulted when activity at the time of sampling was less than during the five-day background period.

Results are expressed as pico curies per liter (pc/l). The term pico curies is also written micro-micro curies and is further defined as 10^{-12} curies. The most probable error is reported along with the measured value. Results should be considered qualitative and undue emphasis should not be given to quantitative values.

TABLE E-1

ANALYSES OF GROUND WATER
1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
						NORTH COASTAL REGION (NO. 1)																	
	MDB&M					UKIAH VALLEY (1-15)																	
G. C. Gilley domestic	14N/12W-5K1	9-63		565									6.6 / 0.19			0.8							DWR
L. Johnson domestic	14N/12W-11N1	9-63		295	7.9	21 / 1.05	17 / 1.37	8.4 / 0.36	1.0 / 0.02	0 / 0.00	110 / 1.80	15 / 0.31	8.8 / 0.25	24 / 0.39		0.2			156	13	121	31	DWR
M. Mehtonen domestic	14N/12W-26K1	9-63		353									14 / 0.39			1.6							DWR
City of Ukiah municipal	15N/12W-16E1	9-63		296	8.0	29 / 1.45	13 / 1.05	10 / 0.44	1.4 / 0.04	0 / 0.00	146 / 2.39	12 / 0.25	7.8 / 0.22	1.2 / 0.02		0.2			156	15	125	5	DWR
Regina Water Co. municipal	15N/12W-21H1	9-63		243									3.9 / 0.11			0.6							DWR
D. Broggi domestic and irrigation	15N/12W-35D1	9-63		426									21 / 0.59			0.1							DWR
F. Brown domestic	16N/12W-5D1	9-63		365	8.0	23 / 1.15	18 / 1.51	22 / 0.96	0.9 / 0.02	0 / 0.00	174 / 2.85	2.1 / 0.04	25 / 0.70	0.2 / 0.00		0.0			188	26	133	0	DWR
P. G. & E. domestic and industrial	16N/12W-9Q1	9-63		422									6.9 / 0.19			0.1							DWR
J. E. Nelson domestic	17N/12W-18A1	9-63		1970									491 / 13.85			88							DWR
Harry Matthews domestic	17N/12W-28M1	9-63		210	7.5	19 / 0.95	7.2 / 0.59	9.2 / 0.40	0.5 / 0.01	0 / 0.00	76 / 1.24	13 / 0.27	7.8 / 0.22	8.1 / 0.13		0.1			128	20	77	15	DWR
						SANEL VALLEY (1-16)																	
A. DeMarcantonio domestic	12N/11W-2F1	9-63		387									4.9 / 0.14			0.2							DWR
E. F. Hawn irrigation	13N/11W-7D1	9-63		334	8.0	21 / 1.05	24 / 2.01	9.2 / 0.40	0.6 / 0.02	0 / 0.00	185 / 3.03	10 / 0.21	5.4 / 0.15	0.5 / 0.01		0.3			162	11	153	1	DWR
A. Damiano irrigation	13N/11W-18B1	9-63		364									8.8 / 0.25	9.5		1.4							DWR
J. H. Pomroy Co. irrigation	13N/11W-18D1	9-63		215									3.9 / 0.11			0.4							DWR

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrates (NO_3)	Fluorides (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M							SANEL VALLEY (1-16) (Cont.)															
Hopland Public Utility District municipal	13N/11W-19N1	9-63		310									3.9 0.11			0.2							DWR
Grace Ranch irrigation, domestic and stock	13N/11W-30H1	9-63		394	8.0	31 1.55	25 2.03	10 0.44	1.1 0.03	0 0.00	191 3.13	19 0.40	7.8 0.22	9.5 0.15		0.3			210	12	179	22	DWR
								ALEXANDER VALLEY (1-17)															
Redwood Hereford Ranch irrigation and domestic	9N/8W-7Q1	9-19-63		586	8.8	3.6 0.18	1.0 0.08	132 5.74	4.0 0.10	22 0.73	270 4.43	1.0 0.02	38 1.07	1.0 0.02	1.0 0.05	0.4	83		416	94	13	0	DWR
Henry Olck irrigation	9N/9W-1P1	9-19-63		272	7.7	17 0.85	19 1.59	13 0.57	0.8 0.02	0 0.00	154 2.52	5.0 0.10	9.0 0.25	5.0 0.08	0.1 0.01	0.0	36		179	19	122	0	DWR
	10N/9W-18P	9-19-63		329	8.6	31 1.55	22 1.85	8.5 0.37	0.8 0.02	10 0.33	170 2.79	13 0.27	6.5 0.18	5.6 0.09	0.1 0.01	0.4	25		202	10	170	14	DWR
Italian Swiss Colony irrigation and domestic	11N/10W-28N1	9-19-63		366	8.3	44 2.20	18 1.46	9.8 0.43	1.0 0.03	2 0.07	222 3.64	12 0.25	7.5 0.21	1.4 0.02	0.1 0.01	0.3	20		229	10	183	0	DWR
Swiss Colony Winery industrial and domestic	11N/10W-33A1	9-19-63		379	8.4	31 1.55	21 1.75	24 1.04	1.5 0.04	5 0.17	206 3.38	9.0 0.19	18 0.51	0.9 0.01	0.1 0.01	4.2	82		298	24	165	0	DWR
C. Pellegrini domestic	11N/10W-33G1	9-19-63		178	8.1	9.6 0.48	6.3 0.52	15 0.65	1.6 0.04	0 0.00	47 0.77	3.0 0.06	18 0.51	25 0.40	0.1 0.01	0.1	38		138	38	50	11	DWR
								SANTA ROSA VALLEY (1-18)															
Roland Matteri irrigation	5N/9W-3F1	9-24-63		495	8.3	10 0.51	5.5 0.45	99 4.30	1.2 0.03	3.0 0.10	229 3.75	23 0.48	31 0.86	0.0 0.00	0.2 0.01	0.3	20		316	81	48	0	DWR
George L. Crane irrigation	6N/7W-17E1	9-24-63		420	8.8	1.4 0.07	0.0 0.00	98 4.27	1.1 0.03	21 0.70	156 2.57	0.5 0.01	33 0.94	0.0 0.00	1.2 0.06	1.5	29		294	98	3	0	DWR
John J. Wilson domestic and stock	6N/7W-18R1	9-24-63		760	7.2	53 2.64	38 3.10	61 2.65	1.2 0.03	0.0 0.00	360 5.90	23 0.47	59 1.65	13 0.21	0.2 0.01	0.2	38		474	31	292	0	DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C ppm	Analyzed by
	MDB&M							SANTA ROSA VALLEY (1-18)															
Miss G. Mallory domestic	6N/8W-3B1	9-24-63		375	8.0	31 / 1.38	19 / 1.57	19 / 0.83	1.6 / 0.04	0.0 / 0.00	137 / 2.25	1.0 / 0.02	44 / 1.22	13 / 0.21	0.1 / 0.01	0.0	35		246	22	148	36	DWR
Cotati Public Utility District municipal	6N/8W-35A2	9-24-63		300	7.2	15 / 0.76	7.5 / 0.62	39 / 1.70	1.7 / 0.04	0.0 / 0.00	117 / 1.92	3.0 / 0.06	37 / 1.05	0.0 / 0.00	0.2 / 0.01	0.0	55		234	54	69	0	DWR
City of Sebastopol Water Department municipal	6N/9W-2G1	9-25-63		326												0.0							DWR
Dr. Dudley S. Moore irrigation and domestic	7N/7W-15C1	9-25-63		255	7.4	16 / 0.82	7.5 / 0.62	25 / 1.10	4.2 / 0.11	0.0 / 0.00	147 / 2.42	0.5 / 0.01	5.3 / 0.15	0.0 / 0.00	0.2 / 0.01	0.0	50		200	42	72	0	DWR
Oakmount Builders irrigation	7N/7W-23B	9-25-63		117	7.5	6.4 / 0.32	2.4 / 0.20	13 / 0.55	3.1 / 0.08	0.0 / 0.00	38 / 0.62	16 / 0.34	7.1 / 0.20	2.7 / 0.04	0.1 / 0.01	0.1	40		112	48	26	0	DWR
Earl F. Bethards irrigation	7N/7W-29D1	9-25-63		230	7.7	17 / 0.84	9.6 / 0.79	17 / 0.74	1.7 / 0.04	0 / 0.00	131 / 2.15	1.9 / 0.04	11 / 0.30	0.4 / 0.01	0.2 / 0.01	0.1	48		174	31	82	0	DWR
C. Bordessa domestic	7N/8W-5G1	9-19-63		481	7.4	25 / 1.25	28 / 2.27	29 / 1.26	4.8 / 0.12	0 / 0.00	151 / 2.47	7.0 / 0.15	50 / 1.41	36 / 0.58	0.2 / 0.01	0.0	74		320	26	176	52	DWR
Harry Rasmussen irrigation	7N/8W-18Q1	9-25-63		750	7.9	35 / 1.73	29 / 2.41	102 / 4.43	2.2 / 0.06	0.0 / 0.00	391 / 6.42	15 / 0.32	60 / 1.70	0.0 / 0.00	0.1 / 0.01	0.2	44		524	51	207	0	DWR
C. Dotti irrigation and stock	7N/8W-30P1	9-20-63		766	6.8	43 / 2.15	39 / 3.23	48 / 2.09	2.7 / 0.07	0 / 0.00	162 / 2.66	17 / 0.35	104 / 2.93	80 / 1.29	0.2 / 0.01	0.3	62		538	28	269	136	DWR
A. Marx domestic and irrigation	7N/8W-33M1	9-25-63		360	8.2	23 / 1.17	13 / 1.06	37 / 1.60	1.4 / 0.04	0.0 / 0.00	200 / 3.28	0.0 / 0.00	17 / 0.47	0.0 / 0.00	0.2 / 0.01	0.1	42		238	41	112	0	DWR
C. W. Gilbert domestic	7N/9W-9F1	9-20-63		161	8.1	16 / 0.80	1.9 / 0.16	15 / 0.65	1.2 / 0.03	0 / 0.00	60 / 0.98	11 / 0.23	14 / 0.39	1.2 / 0.02	0.3 / 0.02	0.0	61		149	40	48	0	DWR
Redwood Ranch, Inc. irrigation	8N/9W-23D1	9-19-63		241	8.4	11 / 0.55	13 / 1.05	19 / 0.83	2.5 / 0.06	2 / 0.07	90 / 1.48	5.0 / 0.10	26 / 0.73	4.4 / 0.07	0.3 / 0.02	0.0	84		206	33	80	3	DWR
Frei Bros. Winery domestic and industrial	9N/10W-1C1	9-19-63		539	8.5	29 / 1.45	51 / 4.21	13 / 0.57	0.6 / 0.02	11 / 0.37	298 / 4.88	17 / 0.35	10 / 0.28	17 / 0.27	0.4 / 0.02	0.1	37		333	9	283	21	DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[c]	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
						SAN FRANCISCO BAY REGION (NO. 2)																	
	MD&M					PETALUMA VALLEY (2-1)																	
Mrs. H. Clokie domestic and stock	3N/6W-1Q1	9-63		1300									142 / 4.00			0.2							DWR
		4-4-64		1320				220 / 9.57					140 / 3.95			0.3							DWR
O. White domestic and irrigation	3N/6W-3C1	9-63		4130									1070 / 30.18			0.3							DWR
		4-4-64		4250				329 / 14.31					1120 / 31.60			0.3							DWR
S. K. Herzog Co., Sleepy Hollow Dairy domestic and stock	3N/6W-11B1	9-63		1880									331 / 9.34			0.2							DWR
		4-4-64		1930				312 / 13.57					329 / 9.28										DWR
C. Strozzi stock	3N/6W-15M1	9-20-63		175									17 / 0.48										DWR
		4-17-64		344									26 / 0.73										DWR
Rupprecht domestic, irrigation and stock	3N/6W-18M1	9-20-63		640									52 / 1.47										DWR
		4-17-64		672	6.7	37 / 1.85	42 / 3.46	26 / 1.13	0.5 / 0.01	0 / 0.00	168 / 2.75	52 / 1.08	52 / 1.47	65 / 1.05		0.0			416	18	266	128	DWR
Karl Johnson domestic	3N/7W-14F1	9-20-63		685									75 / 2.12										DWR
		4-17-64		687												0.6							DWR
Lopes domestic	4N/6W-7H1	9-63		1150									44 / 1.24			1.8							DWR
		4-4-64		1120	7.9	125 / 6.24	23 / 1.87	97 / 4.22	0.7 / 0.02	0 / 0.00	622 / 10.19	32 / 0.67	49 / 1.38	22 / 0.35		1.7			850	34	406	0	DWR
Lopes irrigation	4N/6W-7H2	9-63		4010									901 / 25.42			2.6							DWR
		4-4-64		4240				726 / 31.58					948 / 26.74			2.6							DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C ppm	Analyzed by
	MOB&M							PETALUMA VALLEY (2-1) (Cont.)															
L. A. Bourke domestic and stock	4N/6W-21Q1	9-63		957									200 / 5.64			0.9							DWR
		4-4-64		990				192 / 8.35					111 / 3.13			1.0							DWR
S. K. Herzog Co., Sleepy Hollow Dairy stock	4N/6W-27R1	9-63		544									23 / 0.65			0.1							DWR
		4-4-64		443	7.7	29 / 1.45	30 / 2.43	16 / 0.70	2.0 / 0.05	0 / 0.00	233 / 3.82	3.6 / 0.07	23 / 0.65	2.0 / 0.03		0.1			235	15	194	3	DWR
O. White irrigation and stock	4N/6W-33R1	9-63		5670									1650 / 46.55			0.2							DWR
		4-4-64		5590	7.6	263 / 13.12	304 / 25.04	384 / 16.70	17 / 0.04	0 / 0.00	490 / 8.03	0.0 / 0.00	1670 / 47.11	1.8 / 0.03		0.2			3430	30	1910	1508	DWR
Union Oil Co. industrial	4N/7W-2D1	9-63		19400									7440 / 209.88			0.9							DWR
		4-4-64		22700									9280 / 261.79			0.6							DWR
G. Myles domestic and stock	5N/6W-30D1	9-63		825									60 / 1.69			0.8							DWR
		4-4-64		983									115 / 3.24			0.4							DWR
N. J. Matzen domestic	5N/7W-8D3	9-63		922									154 / 4.34			0.0							DWR
		4-4-64		895									147 / 4.15										DWR
Oberg Lumber Co. domestic	5N/7W-19A1	9-63		547									39 / 1.10			0.0							DWR
		4-4-64		540	8.2	34 / 1.70	9.5 / 0.78	66 / 2.87	2.1 / 0.05	0 / 0.00	221 / 3.62	30 / 0.62	42 / 1.18	0.0 / 0.00		0.1			314	53	124	0	DWR
Al's Barber Shop domestic	5N/7W-20L3	9-63		1780									368 / 10.38			0.0							DWR
		4-4-64		1680	8.0	178 / 8.88	31 / 2.57	104 / 4.52	2.1 / 0.05	0 / 0.00	217 / 3.56	38 / 0.79	343 / 9.68	118 / 1.90		0.0			1040	28	573	395	DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: NC ppm	Analyzed by
	MDB&M					PETALUMA VALLEY (2-1) (Cont.)																	
Dr. H. E. Clark domestic, stock, and irrigation	5N/7W-34E2	9-63		860									66 / 1.86			0.2							DWR
		4-4-64		855	8.7	3.8 / 0.19	3.8 / 0.31	192 / 8.35	1.3 / 0.03	15 / 0.50	365 / 5.98	19 / 0.40	67 / 1.89	0.2 / 0.00		0.2			500	94	25	0	DWR
R. H. Sartori irrigation	5N/7W-35K1	9-63		626									42 / 1.18			0.0							DWR
		4-4-64		656									44 / 1.24			0.0							DWR
						NAPA VALLEY (2-2.01)																	
Mr. E. P. Nunn domestic	3N/3W-18G1	9-16-63		1080									135 / 3.81	12 / 0.19									DWR
Donald L. Pickens domestic	3N/3W-18G2	9-16-63		1460									157 / 4.43	106 / 1.71									DWR
Napa County Airport domestic	4N/4W-2L1	9-17-63		805									97 / 2.74										DWR
		4-13-64		810									98 / 2.76			0.2							DWR
N. Rhodes domestic	4N/4W-5C1	9-17-63		293									27 / 0.76			0.1							DWR
		4-14-64		293	6.7	8.6 / 0.43	5.5 / 0.45	41 / 1.78	1.5 / 0.04	0 / 0.00	77 / 1.20	31 / 0.64	27 / 0.76	18 / 0.29		0.0			184	66	44	0	DWR
T. Raven domestic	4N/4W-5D2	4-14-64		748									89 / 2.51										DWR
Press Wireless domestic	4N/4W-7A1	9-17-63		624									120 / 3.38			0.1							DWR
		4-14-64		744									157 / 4.43			0.1							DWR
P. Rogers domestic and stock	4N/4W-12M1	9-17-63		882									112 / 3.16										DWR
		4-13-64		542									106 / 2.99										DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[2]	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by[1]
	MDB&M							NAPA VALLEY (2-2.01) (Cont.)															
G. Lawrence domestic and stock	4N/4W-13E1	4-13-64		1870	7.5	136 / 6.79	34 / 2.76	202 / 8.79	1.3 / 0.03	0 / 0.00	221 / 3.62	265 / 5.52	295 / 8.32	25 / 0.4		0.3			1190	48	479	297	DWR
Vernon Bassham domestic	4N/4W-14C2	9-17-63		1580									324 / 9.14										DWR
		4-13-64		1630									340 / 9.59										DWR
H. Mini domestic	4N/4W-25K1	4-14-64		225				7.7 / 0.33					8.2 / 0.23			0.1					98		DWR
M. L. George domestic	5N/4W-9Q2	9-17-63		513									43 / 1.21										DWR
		4-14-64		520									44 / 1.24										DWR
Silverado Motel domestic	5N/4W-11F3	9-17-63		704									103 / 2.90			2.0							DWR
		4-14-64		726									102 / 2.88			2.1							DWR
J. W. Davis domestic and stock	5N/4W-14C1	9-17-63		243									18 / 0.51										DWR
		4-14-64		249	7.1	14 / 0.70	12 / 0.96	18 / 0.78	2.3 / 0.06	0 / 0.00	106 / 1.74	6.1 / 0.13	20 / 0.56	1.1 / 0.02		0.0			182	31	83	0	DWR
John Healy domestic and irrigation	5N/4W-15E1	9-17-63		421									35 / 0.99										DWR
		4-14-64		414									31 / 0.87			0.1							DWR
F. D. Looney domestic	5N/4W-20R2	9-17-63		865									146 / 4.12										DWR
		4-14-64		630									81 / 2.28										DWR
J. G. Carr domestic	5N/4W-21P2	9-17-63		2260									416 / 11.74			0.5							DWR
		4-14-64		2010	7.2	31 / 1.55	11 / 0.89	371 / 16.14	6.2 / 0.16	0 / 0.00	340 / 5.57	92 / 1.92	395 / 11.14	0.6 / 0.01		0.6			1190	86	122	0	DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C ppm	Analyzed by
	MDB&M							NAPA VALLEY (2-2.01) (Cont.)															
Napa State Hospital domestic and irrigation	5N/4W-23C2	4-13-64		846									165 4.65										DWR
J. Flanagan domestic	5N/4W-29H1	9-17-63		428									36 1.02			0.0							DWR
		4-15-64		429									34 0.96			0.0							DWR
Wm. Wheeler domestic and stock	7N/5W-5A6	9-18-63		532									19 0.54			0.4							DWR
		4-14-64		460	6.8	41 2.04	26 2.10	15 0.65	2.9 0.07	0 0.00	202 3.31	50 1.04	9.8 0.28	17 0.27		0.3			260	13	207	41	DWR
								SONOMA VALLEY (2-2.02)															
U. S. Navy municipal	4N/5W-14D2	9-63		1260									122 3.44			0.1							DWR
		4-4-64		959	8.6	10 0.50	10 0.82	182 7.92	3.6 0.09	6 0.20	283 4.64	47 0.98	122 3.44	0.9 0.01		0.1			619	85	66	0	DWR
Sonoma Ranch stock	4N/5W-32B1	9-63		2860									629 17.74			2.4							DWR
		4-4-64		2780									587 16.56			2.4							DWR
J. Firminger domestic	5N/5W-18D2	9-63		435									22 0.62			0.7							DWR
		4-4-64		441	7.7	14 0.70	13 1.10	59 2.57	2.0 0.05	0 0.00	209 3.42	8.6 0.18	23 0.65	11 0.18		0.8			322	58	90	0	DWR
L. Miglioretti domestic	5N/5W-20R1	9-63		907									61 1.72			4.5							DWR
		4-4-64		1120									95 2.68			3.7							DWR
E. L. Smith domestic and stock	5N/6W-12F1	9-63		405									20 0.56			0.8							DWR
		4-4-64		407									21 0.59			0.7							DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[2]	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C ppm	Analyzed by c
	MDB&M							SONOMA VALLEY (2-2.02) (Cont.)															
M. Kiser irrigation	5N/6W-24K1	9-63		342									24 / 0.68			0.0							DWR
		4-4-64		361									31 / 0.87			0.0							DWR
Connolly domestic	5N/6W-25P1	9-63		508									66 / 1.86			0.1							DWR
		4-4-64		515									69 / 1.95			0.1							DWR
N. Tarvid domestic	6N/6W-23M2	9-63		521									82 / 2.31			1.4							DWR
		4-4-64		512	8.2	14 / 0.70	8.0 / 0.66	69 / 3.00	13 / 0.33	0 / 0.00	140 / 2.29	2.8 / 0.06	82 / 2.31	0.6 / 0.01		1.4			355	64	68	0	DWR
O. Stamoe domestic	6N/6W-26E1	9-63		438									53 / 1.50			2.0							DWR
		4-4-64		435									52 / 1.47			1.9							DWR
A. G. Fagiani domestic	7N/4W-30L1	4-15-64		90	6.7	5.2 / 0.26	3.4 / 0.28	6.6 / 0.29	1.9 / 0.05	0 / 0.00	34 / 0.56	7.1 / 0.15	6.8 / 0.19	1.4 / 0.02		0.0			96	33	27	0	DWR
J. Alcouffe domestic	9N/6W-31Q1	9-18-63		138									5.4 / 0.15			0.0							DWR
		4-16-64		134									4.0 / 0.11			0.0							DWR
R. H. Archerd domestic	9N/7W-25N1	9-18-63		935									183 / 5.16			12							DWR
		4-16-64		928	7.3	13 / 0.65	4.5 / 0.37	154 / 6.70	12 / 0.31	0 / 0.00	183 / 3.00	0.8 / 0.02	179 / 5.05	1.0 / 0.02		12			579	83	51	0	DWR
								SUISUN-FAIRFIELD VALLEY (2-3)															
Mrs. Taylor domestic	3N/1E-4B1	9-12-63		1420									259 / 7.31			1.1							DWR
McDougal Livestock Co. stock	3N/1E-21D1	9-12-63		1770									186 / 5.25			7.8							DWR

TABLE E-1

ANALYSES OF GROUND WATER
1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents[c]	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					SUISUN-FAIRFIELD VALLEY (2-3) (Cont.)																	
McDougal Livestock Co. domestic	3N/1E-22F2	9-12-63		1910									324 / 9.14			4.0							DWR
		5-12-64		1870	8.3	32 / 1.60	37 / 3.02	332 / 14.44	2.3 / 0.06	1 / 0.03	512 / 8.39	78 / 1.62	291 / 8.21	50 / 0.81		3.9			1070	76	231	0	DWR
Guy Stewart domestic	4N/1E-8F1	9-12-63		996									160 / 4.51			0.98							DWR
		5-12-64		1010	7.9	46 / 2.30	25 / 2.06	125 / 5.44	3.5 / 0.09	0 / 0.00	244 / 4.00	59 / 1.23	155 / 4.37	10 / 0.16		0.8			604	55	218	18	DWR
Fish and Game Comm. domestic	4N/1W-33A1	9-12-63		3620									853 / 24.06			15							DWR
		5-12-64		3710									853 / 24.06			9.9							DWR
W. F. Healy domestic	4N/2W-4D1	9-12-63		1400									80 / 2.26			1.4							DWR
		5-12-64		1410									71 / 2.00			1.2							DWR
Southern Pacific Railroad domestic	4N/2W-5Q2	9-12-63		378									42 / 1.18			0.51							DWR
		5-12-64		381									39 / 1.10			0.5							DWR
	4N/2W-9H1	9-12-63		3360	8.5	94 / 4.69	81 / 6.63	510 / 22.18	2.5 / 0.06	14 / 0.47	394 / 6.46	3.0 / 0.06	910 / 25.67	6.4 / 0.10	0.2 / 0.01	4.9	24		1900	66	566	220	USGS
F. P. Smith domestic	4N/2W-18M1	9-12-63		1140									115 / 3.24			0.75							DWR
		5-12-64		1160									105 / 2.96			0.6							DWR
D. R. Mangels irrigation	4N/3W-13G2	5-12-64		1080	7.7	94 / 4.69	36 / 2.98	94 / 4.09	1.2 / 0.03	0 / 0.00	415 / 6.80	124 / 2.58	77 / 2.17	1.3 / 0.02		0.7			652	35	384	44	DWR
	5N/1W-25R1	5-12-64		1490	8.0	90 / 4.49	32 / 2.66	163 / 7.09	1.0 / 0.02	0 / 0.00	250 / 4.10	12 / 0.25	335 / 9.45	11 / 0.18		0.6			808	50	358	153	DWR
	5N/2W-21P3	5-12-64		1040									52 / 1.47			1.2							DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					SUISUN-FAIRFIELD VALLEY (2-3) (Cont.)																	
H. J. Beck domestic	5N/2W-27J4	9-12-63		914									45 / 1.27			1.6							DWR
		5-12-64		922	8.0	76 / 3.79	40 / 3.28	71 / 3.09	0.6 / 0.02	0 / 0.00	458 / 7.51	38 / 0.79	44 / 1.24	30 / 0.48		0.9			535	30	354	0	DWR
C. M. Ballard domestic	5N/2W-34N1	9-12-63		1890									184 / 5.19			2.3							DWR
Low Sing domestic	5N/2W-34P4	9-12-63		1370									44 / 1.24			2.6							DWR
						PITTSBURG PLAIN (2-4)																	
Continental Can Co. irrigation	2N/1E-7R2	6-24-64	69	3550	8.2	167 / 8.33	123 / 10.13	412 / 17.92	12 / 0.31	0 / 0.00	300 / 4.92	621 / 12.93	650 / 18.34	1.9 / 0.03		0.6			2200	49	924	678	DWR
Dow Chemical domestic	2N/1E-22C1	6-24-64	69	1550	8.2	89 / 4.44	57 / 4.67	172 / 7.48	7.4 / 0.19	0 / 0.00	322 / 5.28	386 / 8.04	120 / 3.38	2.1 / 0.03		0.5			1050	44	456	192	DWR
Fibreboard Products, Inc. domestic	2N/2E-20A1	6-24-64	67	1480	8.0	69 / 3.44	58 / 4.81	154 / 6.70	4.5 / 0.12	0 / 0.00	345 / 5.65	112 / 2.33	216 / 6.09	39 / 0.63		0.4			872	44	413	130	DWR
						CLAYTON VALLEY (2-5)																	
G. Curletto domestic and irrigation	1N/1W-4A1	8-13-63		645	7.5	51 / 2.54	40 / 3.26	30 / 1.30	1.3 / 0.03	0 / 0.00	300 / 4.92	61 / 1.27	24 / 0.68	7.9 / 0.13	0.1 / 0.01	0.3	28		387	18	290	44	USGS
S. H. Cowell Foundation	1N/1W-4R1	8-13-63		1120	8.4	70 / 3.49	49 / 4.03	90 / 3.92	1.0 / 0.03	12 / 0.40	276 / 4.52	36 / 0.75	175 / 4.94	26 / 0.42	0.3 / 0.02	0.4	39		632	34	376	130	USGS
Fred Baker domestic	2N/1W-30J1	8-13-63		997	8.5	82 / 4.09	58 / 4.79	64 / 2.78	1.0 / 0.03	2.0 / 0.67	414 / 6.79	104 / 2.17	55 / 1.55	17 / 0.27	0.2 / 0.01	0.5	32		642	24	444	72	USGS
R. B. Ogilvie domestic	2N/2W-13P1	8-13-63		815	8.5	34 / 1.70	27 / 2.22	99 / 4.31	1.6 / 0.04	8 / 0.27	215 / 3.52	51 / 1.06	111 / 3.13	14 / 0.23	0.4 / 0.02	0.3	33		429	52	196	7	USGS
Mr. Bertinoia domestic	2N/2W-26B1	8-13-63		355	8.2	34 / 1.70	4.6 / 0.38	32 / 1.39	2.2 / 0.06	0 / 0.00	93 / 1.52	39 / 0.81	40 / 1.13	2.1 / 0.03	0.0 / 0.00	0.1	11		212	39	104	28	USGS
J. D. Nailen domestic	2N/2W-36J1	8-13-63		1160	7.7	67 / 3.34	42 / 3.46	116 / 5.05	1.1 / 0.03	0 / 0.00	326 / 5.34	97 / 2.02	137 / 3.92	28 / 0.45	0.2 / 0.01	0.4	33		692	43	340	73	USGS

ANALYSES OF GROUND WATER
1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M								YGNACIO VALLEY (2-6)														
A. Sebastiani domestic	1N/1W-7K1	8-13-63		2240	7.8	119 / 5.94	73 / 6.02	298 / 12.96	1.8 / 0.05	0 / 0.00	446 / 7.31	535 / 11.14	208 / 5.87	18 / 0.29	0.5 / 0.03	0.9	26		1570	52	598	232	USGS
G. Landie domestic	1N/1W-29G1	8-13-63		1890	8.5	115 / 5.74	64 / 5.26	226 / 9.83	1.3 / 0.03	18 / 0.60	486 / 7.97	218 / 4.54	244 / 6.88	18 / 0.29	0.9 / 0.05	0.9	21		1180	47	550	122	USGS
Chester Hook domestic	1N/2W-11N1	8-13-63		1240	8.1	86 / 4.29	35 / 2.86	133 / 5.78	3.0 / 0.08	0 / 0.00	506 / 8.29	32 / 0.67	143 / 4.03	0.9 / 0.01	0.4 / 0.02	1.2	38		715	44	358	0	DWR
John E. Welle domestic and irrigation	1N/2W-13P1	8-13-63		1590	8.0	112 / 5.59	73 / 6.00	133 / 5.78	0.7 / 0.02	0 / 0.00	609 / 9.98	116 / 2.42	150 / 4.23	36 / 0.58	0.4 / 0.02	1.4	31		955	33	580	81	USGS
F. H. Dunham domestic	2N/2W-27R1	8-13-63		1660	8.5	47 / 2.35	34 / 2.81	276 / 12.01	3.9 / 0.10	18 / 0.60	490 / 8.03	26 / 0.54	279 / 7.87	3.4 / 0.05	0.2 / 0.01	6.2	44		982	70	258	0	USGS
Mrs. A. Buscaglia domestic	2N/2W-36E1	8-13-63		3360	7.4	240 / 11.98	164 / 13.52	272 / 11.83	1.3 / 0.03	0 / 0.00	576 / 9.44	424 / 8.83	578 / 16.31	133 / 2.15	0.4 / 0.02	1.2	36		2330	32	1280	808	USGS
	2N/2W-36E2	8-13-63		1750	8.3	136 / 6.79	86 / 7.11	113 / 4.92	1.7 / 0.04	6 / 0.20	558 / 9.15	51 / 1.06	279 / 7.87	17 / 0.27	0.2 / 0.01	0.5	29		1140	26	695	228	USGS

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9)																	
Manasse Block Tanning Company industrial	1S/4W-4A1	6-3-64		1360	8.5	95 / 4.74	65 / 5.35	97 / 4.22	1.1 / 0.03	12 / 0.40	339 / 5.56	99 / 2.06	200 / 5.64	24 / 0.39		0.1			879	29	505	227	DWR
Red Star Yeast Co. industrial	1S/4W-34F2	6-3-64		993	8.5	32 / 1.60	29 / 2.36	125 / 5.44	2.2 / 0.06	8.5 / 0.28	251 / 4.11	27 / 0.56	161 / 4.54	8.8 / 0.14		0.2			540	58	198	0	DWR
National Lead Co. industrial	2S/3W-8Q1	6-3-64		1780	8.4	111 / 5.54	53 / 4.33	172 / 7.48	2.4 / 0.06	6 / 0.20	212 / 3.47	32 / 0.67	446 / 12.58	21 / 0.34		0.4			1120	43	494	310	DWR
A. Ratto irrigation	2S/3W-28G1	6-19-64	67	921	8.3	60 / 2.99	25 / 2.08	91 / 3.96	2.3 / 0.06	0 / 0.00	251 / 4.11	45 / 0.94	138 / 3.89	0.4 / 0.01		0.4			506	44	254	48	DWR
Soares irrigation	2S/3W-30D2	6-3-64		4210	7.8	357 / 17.81	148 / 12.16	268 / 11.66	8.2 / 0.21	0 / 0.00	238 / 3.90	128 / 2.66	1260 / 35.54	2.4 / 0.04		0.4			2800	28	1500	1305	DWR
Hohener Packing Co. domestic and industrial	2S/3W-33H3	6-19-64	65	635	8.1	34 / 1.70	19 / 1.56	81 / 3.52	3.4 / 0.09	0 / 0.00	315 / 5.16	36 / 0.75	27 / 0.76	0.8 / 0.01		0.4			364	51	163	0	DWR
Ralph A. Zobel irrigation	2S/3W-34A2	6-19-64	67	844	7.3	70 / 3.49	41 / 3.40	48 / 2.09	0.4 / 0.01	0 / 0.00	316 / 5.18	68 / 1.42	40 / 1.13	64 / 1.03		0.3			506	23	345	86	DWR
John A. Jacklich domestic	2S/3W-34D3	6-19-64		586	8.5	38 / 1.90	22 / 1.82	61 / 2.65	1.2 / 0.03	6.9 / 0.23	289 / 4.74	25 / 0.52	27 / 0.76	2.3 / 0.04		0.4			345	41	186	0	DWR
Alameda Naval Air Station irrigation	2S/4W-3E1	6-3-64		790	7.6	33 / 1.65	19 / 1.59	106 / 4.61	1.7 / 0.04	0 / 0.00	288 / 4.72	33 / 0.69	87 / 2.45	1.0 / 0.02		0.3			464	58	162	0	DWR
Todd Shipyards industrial	2S/4W-3F1	6-3-64		913	7.8	40 / 2.00	25 / 2.08	110 / 4.78	1.7 / 0.04	0 / 0.00	241 / 3.95	23 / 0.48	153 / 4.32	1.3 / 0.02		0.3			511	54	204	6	DWR
Alameda High School irrigation	2S/4W-12R1	6-3-64		389	8.4	20 / 1.00	12 / 1.02	39 / 1.70	2.0 / 0.05	2 / 0.07	155 / 2.54	4.4 / 0.09	37 / 1.04	0.5 / 0.01		0.1			243	45	101	0	DWR
Ratto irrigation	2S/4W-25A1	6-3-64		761	8.4	26 / 1.30	14 / 1.18	118 / 5.13	2.4 / 0.06	5 / 0.17	234 / 3.84	40 / 0.83	99 / 2.79	0.9 / 0.01		0.4			425	67	124	0	DWR
Bayside Nursery irrigation	3S/2W-7J1	6-19-64	65	1000	8.0	78 / 3.89	41 / 3.36	78 / 3.39	2.4 / 0.06	0 / 0.00	319 / 5.23	96 / 2.00	81 / 2.28	55 / 0.89		0.3			611	32	363	101	DWR
Hoffman domestic	3S/2W-8N2	6-30-64	74	1230	7.6	123 / 6.14	51 / 4.19	80 / 3.48	1.0 / 0.02	0 / 0.00	485 / 7.95	116 / 2.42	78 / 2.20	51 / 0.82		0.5			753	25	517	119	DWR
Kruger and Sons industrial	3S/2W-19R4	6-19-64	66	1190	8.3	116 / 5.79	44 / 3.62	79 / 3.44	1.2 / 0.03	0 / 0.00	410 / 6.72	86 / 1.79	129 / 3.64	42 / 0.68		0.3			734	27	471	135	DWR

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C ppm	Analyzed by
	MDB&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Al Matea irrigation	3S/2W-30R14	6-19-64		1300	8.3	126 / 6.29	47 / 3.90	100 / 4.35	0.7 / 0.02	0 / 0.00	512 / 8.39	78 / 1.62	129 / 3.64	39 / 0.63		0.4			801	30	510	90	DWR
Lurmann Estate irrigation	3S/2W-31K1	6-29-64		656	8.5	18 / 0.90	23 / 1.92	88 / 3.83	2.0 / 0.05	4.5 / 0.15	254 / 4.16	41 / 0.85	51 / 1.44	0.3 / 0.00		0.4			361	57	141	0	DWR
Mt. Eden Nursery domestic and irrigation	3S/2W-32D2	6-29-64	74	798	8.3	34 / 1.70	10 / 0.82	125 / 5.44	2.1 / 0.05	0 / 0.00	273 / 4.47	54 / 1.12	84 / 2.37	0.7 / 0.01		0.5			458	68	126	0	DWR
Avanzion Mortenson Co. irrigation	3S/3W-1G3	6-19-64	74	1060	7.8	45 / 2.24	22 / 1.84	157 / 6.83	1.6 / 0.04	0 / 0.00	367 / 6.02	54 / 1.12	123 / 3.47	0.3 / 0.00		0.7			591	62	204	0	DWR
Trojan Powder Co. abandoned	3S/3W-11Q1	6-19-64	70	1330	8.1	63 / 3.14	26 / 2.15	172 / 7.48	3.3 / 0.08	0 / 0.00	282 / 4.62	42 / 0.87	262 / 7.39	0.8 / 0.01		0.5			721	58	265	34	DWR
Cianelli irrigation	3S/3W-13B2	6-19-64		1910	8.1	113 / 5.64	77 / 6.31	220 / 9.57	1.0 / 0.02	0 / 0.00	678 / 11.11	196 / 4.08	166 / 4.68	52 / 0.84		1.2			1200	44	598	42	DWR
Greenwood Corp. domestic and irrigation	3S/3W-24J1	6-19-64	65	2040	8.4	135 / 6.74	92 / 7.56	186 / 8.09	1.7 / 0.04	10 / 0.33	472 / 7.74	150 / 3.12	351 / 9.90	38 / 0.61		0.7			1310	36	716	313	DWR
J. Harat domestic and stock	3S/3W-24Q2	6-19-64		2170	8.1	140 / 6.99	91 / 7.49	172 / 7.48	0.5 / 0.01	0 / 0.00	472 / 7.74	116 / 2.42	351 / 9.90	54 / 0.87		0.4			1450	34	725	338	DWR
Zwissig Brothers irrigation	4S/1W-7P2	10-31-63		1020									83 / 2.34										DWR
		5-20-64		1000									75 / 2.12										DWR
Southern Pacific Railroad irrigation	4S/1W-7R1	10-30-63		2080									267 / 7.53										DWR
		5-5-64		1700									288 / 8.12	96 / 1.54									DWR
Decoto Masonic Home domestic, farm, and garden	4S/1W-7R5	5-5-64		1040									96 / 2.71										DWR
M. Freitas irrigation	4S/1W-17E4	10-16-63		1300	7.9	94 / 4.68	70 / 5.71	76 / 3.30	2.6 / 0.07	0 / 0.00	228 / 3.74	92 / 1.92	272 / 7.67	10 / 0.16	0.1 / 0.01	0.4	17		924	24	520	333	DWR
		5-5-64		1870									372 / 10.49										DWR

TABLE E-1

ANALYSES OF GROUND WATER
1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Harold Faria irrigation	4S/1W-18C2	5-7-64		953									70 1.97										DWR
J. M. Enos domestic and irrigation	4S/1W-18D1	10-14-63		860	8.2	46 2.32	61 5.02	53 2.30	1.8 0.05	0 0.00	321 5.26	67 1.41	81 2.27	34 0.55	0.1 0.01	0.3	15		628	24	367	104	DWR
Pacific States Steel industrial	4S/1W-18G1	5-64		1220	8.1	106 5.32	66 5.43	72 3.13	2.5 0.06	0 0.00	276 4.54	125 2.61	223 6.29	20 0.32	0.1 0.01	0.4	14		820	22	537	310	DWR
Pacific States Steel abandoned	4S/1W-18H3	10-16-63		3200									879 24.80										DWR
M. Rose domestic and irrigation	4S/1W-18M7	10-17-63		4110									1200 33.85										DWR
		5-5-64		2600									684 19.29										DWR
Santa Cruz-Portland Cement Co. irrigacion	4S/1W-20D2	10-21-63		774									98 2.76										DWR
		5-6-64		722									86 2.43										DWR
California Nursery Co. industrial	4S/1W-20E1	10-24-63		1100									202 5.70										DWR
Citizen's Utilities municipal	4S/1W-21F2	9-5-63		748	8.0	60 2.99	26 2.16	52 2.26	2.1 0.05	0 0.00	227 3.72	79 1.64	78 2.20	2.2 0.04	0.2 0.01	0.58	15	ABS 0.0 Al 0.02 As 0.00 Cr +6 0.00 Cu 0.00 Pb 0.00 Mn 0.00 Zn 0.00 Phenal 0.000 Fe 0.05 (Total)	436	30	258	72	DWR
		10-31-63		644									65 1.83										DWR
		12-5-63		682	7.4	52 2.59	24 1.99	50 2.18	2.0 0.05	0 0.00	220 3.60	57 1.19	75 2.12	1.4 0.02	0.3 0.02	0.63	13	ABS 0.0 Al 0.13 As 0.00 Cu 0.00 Pb 0.00 Mn 0.00 Zn 0.00 Phenal 0.00 Fe 0.00 (Total)	390	32	229	49	DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Citizen's Utilities municipal	4S/1W-21F2	3-10-64		733	7.4	57 / 2.84	25 / 2.06	49 / 2.13	2.4 / 0.06	0 / 0.00	218 / 3.57	60 / 1.25	77 / 2.17	2.7 / 0.04		0.5		ABS 0.0 Al 0.02 As 0.00 Cr +6 0.00 Cu 0.00 Pb 0.00 Mn 0.00 Zn 0.00 Phenol 0.001 Fe 0.00 (Total) Se 0.00	378	30	245	66	DWR
		6-12-64		762	7.9	60 / 2.99	26 / 2.12	58 / 2.52	2.7 / 0.07	0 / 0.00	236 / 3.87	68 / 1.42	78 / 2.20	4.1 / 0.07		0.5		ABS 0.00 Al 0.00 As 0.00 Cr +6 0.00 Cu 0.00 Pb 0.00 Mn 0.00 Zn 0.00 Phenol 0.00 Fe 0.02 (Total) Se 0.00	430	33	256	62	DWR
J. W. Stocking irrigation and domestic	4S/1W-21K3	9-10-63		623	7.6	74 / 3.69	7.2 / 0.59	52 / 2.26	3.2 / 0.08	0 / 0.00	245 / 4.02	78 / 1.62	28 / 0.79	6.0 / 0.10	0.4 / 0.02	0.65	15		367	34	214	13	DWR
		12-5-63		638									30 / 0.85										DWR
Alameda County Water District municipal	4S/1W-21P6	10-24-63		643									57 / 1.61										DWR
		12-5-63		734	7.6	63 / 3.14	29 / 2.41	43 / 1.87	1.7 / 0.04	0 / 0.00	269 / 4.41	72 / 1.50	55 / 1.55	3.9 / 0.06	0.3 / 0.02	0.74	16	ABS 0.0 Al 0.03 As 0.00 Cu 0.02 Pb 0.00 Mn 0.00 Zn 0.00 Phenol 0.000 Fe 0.02 (Total)	423	25	278	58	DWR
		3-10-64		724	7.7	65 / 3.24	28 / 2.29	39 / 1.70	1.8 / 0.05	0 / 0.00	279 / 4.57	69 / 1.44	45 / 1.27	3.8 / 0.06		0.6		ABS 0.0 Al 0.03 As 0.00 Cr +6 0.00 Cu 0.02 Pb 0.01 Mn 0.00 Zn 0.01 Phenol 0.000 Fe 0.02 (Total) Se 0.00	372	23	277	49	DWR
		5-6-64											49 / 1.38	0.5 / 0.01									OWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C ppm	Analyzed by
	MD8&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Alameda County Water District municipal	4S/1W-21P6	6-12-64		734	7.9	67 / 3.34	26 / 2.17	48 / 2.09	2.0 / 0.05	0 / 0.00	256 / 4.20	69 / 1.44	62 / 1.75	4.4 / 0.07		0.6		ABS 0.00, As 0.00, Al 0.00, Cr +6 0.00, Cu 0.00, Pb 0.00, Mn 0.00, Zn 0.00, Phenol 0.00, Fe 0.00 (Total), Se 0.00	422	27	276	66	DWR
Alameda County Water District municipal	4S/1W-21P7	10-30-63		650	8.2	46 / 2.27	36 / 2.98	46 / 2.00	1.8 / 0.05	0 / 0.00	234 / 3.84	87 / 1.83	62 / 1.76	3.4 / 0.06	0.1 / 0.01	0.6	13		420	27	262	70	DWR
E. F. Mortenstein irrigation	4S/1W-21R2	10-30-63		700	8.4	50 / 2.50	35 / 2.86	66 / 2.87	1.9 / 0.05	4.8 / 0.16	305 / 5.00	68 / 1.43	55 / 1.55	9.3 / 0.15	0.1 / 0.01	0.8	13		484	35	268	10	DWR
		5-6-64		831				68 / 2.96					46 / 1.30										
A. J. Rezendes irrigation	4S/1W-22M2	10-21-63		820	8.6	16 / 0.82	17 / 1.42	175 / 7.60	6.0 / 0.15	15.6 / 0.52	356 / 5.84	76 / 1.58	67 / 1.89	2.7 / 0.04	0.1 / 0.01	2.1	18		638	76	112	0	DWR
		5-6-64		1690				348 / 15.14					78 / 2.20										DWR
Joseph S. Dutra	4S/1W-28B2	10-21-63		825									46 / 1.30										DWR
		5-5-64		888									49 / 1.38										DWR
	4S/1W-28C1	10-30-63		620	8.3	38 / 1.86	29 / 2.36	53 / 2.30	1.9 / 0.05	3.6 / 0.12	181 / 2.96	87 / 1.82	59 / 1.67	4.7 / 0.08	0.1 / 0.01	0.6	15		382	35	211	57	DWR
Alameda County Water District municipal	4S/1W-28C14	10-24-63		688									40 / 1.13										DWR
		5-5-64		653									34 / 0.96										DWR
J. M. Braga irrigation and domestic	4S/1W-28D4	10-16-63		1190									201 / 5.67										DWR
		5-6-64		1010									137 / 3.86										DWR
	4S/1W-28D9	10-63		750									66 / 1.86										DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Co)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C ppm	Analyzed by
	MD86M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Alameda County Water District municipal	4S/1W-28D9	5-6-64		763									68 1.92	2.9 0.05									DWR
Washington Township Hospital domestic	4S/1W-28F5	10-63		484									24 0.68										DWR
		5-5-64		581									24 0.68										DWR
L. S. Williams domestic	4S/1W-28R1	10-31-63		1290	8.0	121 6.06	56 4.60	113 4.90	2.5 0.06	0 0.00	498 8.16	180 3.75	85 2.39	94 1.51	0.1 0.01	0.6	25		916	31	533	125	DWR
Cy Caldeira domestic	4S/1W-29J8	4-29-64		2720									559 15.76										DWR
		5-64		3000	8.0	293 14.60	128 10.50	200 8.70	4.5 0.12	0 0.00	541 8.86	93 1.94	794 22.40	13 0.21	0.1 0.01	0.9	14		2352	26	1255	812	DWR
Alameda County Water District municipal	4S/1W-29L12	4-29-64		1760									407 11.48										DWR
Alameda County Water District municipal	4S/1W-30E3	10-63		650		37 1.86	23 1.88	79 3.43	1.6 0.04	0 0.00	234 3.84	41 0.86	92 2.59	0.9 0.01	0.1 0.01	0.4	17		398	48	187	0	DWR
		5-6-64		745									77 2.17										DWR
Joseph Talles	4S/1W-30N	9-11-63	70	660	8.1	90 4.49	13 1.06	31 1.35	1.1 0.03	0 0.00	252 4.13	88 1.83	29 0.82	4.3 0.07	0.4 0.02	0.1	34		430	19	278	71	DWR
W. E. Hutchins domestic	4S/1W-31A2	10-63		1200	8.0	84 4.18	58 4.76	80 3.47	2.7 0.07	0 0.00	224 3.66	55 1.14	266 7.51	0 0.00	0.1 0.01	0.4	14		774	28	447	264	DWR
		5-8-64		1100									177 4.99										DWR
Alameda County Water District municipal	4S/1W-31B3	10-63		737									109 3.07										DWR
		5-5-64		1110									196 5.53										DWR
Frank Betschart irrigation and domestic	4S/1W-32A5	5-5-64		2460									492 13.87										DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Alameda County Water District	4S/1W-32P1	10-63		1300									262 7.39										DWR
		4-29-64		1570									339 9.56	0.8 0.01									
J. and V. G. Pianetta irrigation and domestic	4S/1W-33E1	5-11-64		4810				166 7.22					1340 37.80										DWR
R. Clark irrigation and domestic	4S/1W-33K1	10-16-63		1130									95 2.68										DWR
		4-29-64		1550									102 2.88										DWR
Bertha Rose domestic	4S/1W-34Q4	10-22-63		1200	8.4	108 5.36	54 4.41	96 4.17	2.3 0.06	10.8 0.36	443 7.26	40 0.85	167 4.71	43 0.69	0.1 0.01	0.2	20		792	30	488	107	DWR
		5-4-64		1410									180 5.08	62 1.00									DWR
O. N. Hirch irrigation	4S/1W-34R2	10-63		590	8.1	33 1.65	18 1.48	81 3.50	1.8 0.05	0 0.00	303 4.96	12 0.25	46 1.29	0 0.00	0.1 0.01	0.4	19		356	52	156	0	DWR
		5-27-64		713									37 1.04										DWR
Alameda County Water District municipal	4S/1W-35P3	10-17-63		580	8.5	18 0.92	13 1.13	103 4.47	2.0 0.05	12 0.40	281 4.60	21 0.45	43 1.21	0.0 0.00	0.2 0.01	0.3	23		398	68	103	0	DWR
		6-64		737				100 4.35					40 1.13										DWR
Weigman domestic and irrigation	4S/2W-3R1	10-14-63		550	8.5	38 1.88	13 1.08	77 3.35	1.8 0.05	12 0.40	282 4.62	40 0.84	21 0.59	0.8 0.01	0.1 0.01	0.3	20		370	53	148	0	DWR
		5-5-64		602									19 0.54										DWR
City of Hayward municipal	4S/2W-5A14	6-29-64	70	650	8.3	21 1.05	7.7 0.63	114 4.96	1.8 0.05	0 0.00	312 5.11	44 0.92	26 0.73	1.0 0.02		0.4			389	74	84	0	DWR
J. F. & E. F. Bettencourt irrigation	4S/2W-9Q2	6-29-64	66	4430	8.1	290 14.47	118 9.71	422 18.36	7.2 0.18	0 0.00	203 3.33	135 2.81	1260 35.54	1.8 0.03		0.4			3220	43	1210	1044	DWR
Holly Sugar industrial	4S/2W-10C1	10-16-63		530	8.3	35 1.76	16 1.26	63 2.75	2.1 0.05	4.8 0.16	200 3.28	39 0.82	50 1.41	5.0 0.08	0.1 0.01	0.3	23		332	47	151	0	DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C ppm	Analyzed by
	MD&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Holly Sugar industrial	4S/2W-10C1	5-25-64		623									34 0.96										DWR
Alameda County Water District municipal	4S/2W-10N6	10-24-63		573									47 1.32										DWR
		5-5-64		664									57 1.61										DWR
Scutto Brothers irrigation and domestic	4S/2W-10Q2	10-23-63		2700	8.0	301 15.00	126 10.40	157 6.83	4.0 0.10	0 0.00	417 6.84	368 7.66	610 17.20	5.5 0.09	0.1 0.01	0.5	17		1876	21	1270	928	DWR
		5-5-64		2940									537 15.14										DWR
R. & C. Andrade domestic and irrigation	4S/2W-10Q3	10-18-63		2100									340 9.59										DWR
		5-5-64		2490									376 10.60										DWR
J. C. Whipple abandoned	4S/2W-11A2	10-24-63		866									54 1.52										DWR
		5-64		820	7.8	72 3.60	33 2.70	68 2.95	0.8 0.02	0 0.00	358 5.86	66 1.30	53 1.49	31 0.50	0.1 0.01	0.2	18		520	32	315	22	DWR
Kitayama irrigation	4S/2W-11G1	10-17-63		938									52 1.47										DWR
		5-11-64		844									42 1.18	4.9 0.08									DWR
M. Faria domestic	4S/2W-11J1	10-23-63		890									57 1.61										DWR
Henry Dutra domestic and irrigation	4S/2W-11Q5	5-6-64		673									60 1.69	1.3 0.02									
Joe Coularte domestic	4S/2W-11R12	10-63		974									84 2.37										DWR
		5-7-64		1460									135 3.81	53 0.85									DWR
Alameda County Water District municipal	4S/2W-12C1	10-63		643									61 1.72										DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Analyzed by
						Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents			Total ppm	N.C. ppm	
	MDB&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Alameda County Water District municipal	4S/2W-12C1	5-5-64		660									57 1.61	1.4 0.02								DWR
H. Faria irrigation and domestic	4S/2W-12N4	10-23-63		1140									88 2.48									DWR
		5-25-64		1140									88 2.48	63 1.02								DWR
J. May irrigation	4S/2W-13C2	10-23-63		1160	8.2	59 2.96	71 5.81	84 3.65	2.5 0.06	0 0.00	147 2.42	139 2.91	227 6.41	35 0.57	0.1 0.01	0.4	20		832	29	438	317	DWR
		5-11-64		1880				94 4.09					317 8.94									
M. S. Santos irrigation	4S/2W-12P2	10-23-63		872									79 2.23									DWR
Carmelo Cosso irrigation	4S/2W-13E2	5-5-64		3650									872 24.59									
T. E. Harvey irrigation	4S/2W-14E1	10-23-63		3500	7.9	401 20.00	161 13.20	202 8.80	4.3 0.11	0 0.00	338 5.54	401 8.34	968 27.30	19 0.31	0.1 0.01	0.6	15		2872	21	1560	1283	DWR
		5-25-64		4900									1200 33.84									DWR
A. Caeton irrigation and domestic	4S/2W-14J1	5-7-64		806									54 1.52									DWR
T. P. Harvey irrigation and domestic	4S/2W-15C1	10-23-63		750	8.5	32 1.58	28 2.28	116 5.05	1.8 0.05	12 0.40	356 5.84	38 0.78	67 1.89	0.0 0.00	0.1 0.01	0.6	22		506	56	193	0	DWR
		5-5-64		641									29 0.82									
King	4S/2W-15L4	10-16-63		505	8.2	43 2.16	22 1.78	36 1.55	2.8 0.07	0 0.00	183 3.00	62 1.28	34 0.97	11 0.18	0.1 0.01	0.3	19		350	28	197	47	DWR
		5-64		720				36 1.57					44 1.24									DWR
H. H. & W. D. Patterson irrigation	4S/2W-22P2	10-17-63		569									25 0.70									DWR

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Analyzed by
						Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents			Total ppm	N.C. ppm	
	MDB&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
H.H. & W.D. Patterson irrigation	4S/2W-22P2	5-64		573									25 0.70									DWR
Patterson Ranch irrigation	4S/2W-23F2	10-17-63		530	8.0	44 2.19	34 2.78	36 1.55	2.0 0.05	0 0.00	236 3.86	58 1.20	53 1.49	0 0.00	0.1 0.01	0.3	16		388	24	248	55	DWR
		5-5-64		700				36 1.57					52 1.47									DWR
Louie Croce irrigation	4S/2W-24D4	10-18-63		590	8.4	58 2.88	28 2.34	35 1.50	1.8 0.05	13.8 0.46	249 4.09	54 1.13	35 1.00	11 0.18	0.1 0.01	0.3	17		396	22	261	34	DWR
		5-5-64		640									34 0.96									DWR
Amaral irrigation	4S/2W-24F6	10-22-63		2900	7.1	295 14.71	141 11.58	110 4.80	3.5 0.09	0 0.00	373 6.11	115 2.42	808 22.80	12 0.19	0.1 0.01	0.5	16		1986	15	1365	1060	DWR
		5-64		2680									624 17.60									
J.A., J.R., & L.A. Macedo irrigation	4S/2W-24J1	10-30-63		940	8.1	73 3.66	52 4.26	42 1.83	2.3 0.06	0 0.00	195 3.20	70 1.47	177 4.99	9.4 0.15	0.1 0.01	0.4	15		576	19	396	236	DWR
		5-8-64		1270									238 6.78			0.4						DWR
M. Kitani domestic and irrigation	4S/2W-24L6	10-18-63		620	8.4	61 3.04	25 2.06	34 1.47	1.7 0.04	12 0.40	245 4.02	46 0.96	35 0.99	5.1 0.08	0.1 0.01	0.3	16		354	22	255	34	DWR
		5-6-64		620									36 1.01									DWR
H.H. & W.D. Patterson irrigation	4S/2W-26A1	10-18-63		1000	7.9	72 3.56	52 4.25	75 3.25	2.6 0.07	0 0.00	178 2.92	54 1.13	241 6.81	4.4 0.07	0.1 0.01	0.4	17		728	29	390	244	DWR
		5-5-64		1130									211 5.95			0.3						DWR
H.H. & W.D. Patterson irrigation and domestic	4S/2W-27A2	10-31-63		525	8.1	46 2.32	12 1.04	57 2.47	1.6 0.04	0 0.00	244 4.00	48 1.01	32 0.89	1.2 0.02	0.1 0.01	0.3	19		312	42	168	0	DWR
Ernest Malini industrial	4S/2W-35L2	10-22-63		840	8.5	39 1.96	6.1 0.50	157 6.83	2.0 0.05	9.6 0.32	286 4.68	25 0.53	128 3.59	0 0.00	0.1 0.01	0.4	14		548	73	123	0	DWR
Bay Toll Authority	4S/3W-1D2	3-13-64		2780	8.1	86 4.29	55 4.56	400 17.40	7.6 0.19	0 0.00	299 4.90	71 1.48	704 19.86	1.2 0.02		0.4			1510	66	443	198	DWR

TABLE E-1

ANALYSES OF GROUND WATER
1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
State of California	4S/3W-31B1	7-10-63		1990	8.6	92 4.59	0.6 0.05	326 14.18	14 0.36	10 0.33	208 3.41	57 1.19	500 14.10	0.9 0.01	0.3 0.02	0.27	16		1090	74	232	45	OWR
E. R. Blacow irrigation, stock, and domestic	5S/1W-4D1	10-17-63		587									20 0.56										OWR
		5-4-64		587									20 0.56										DWR
J. E. Trindad stock and irrigation	5S/1W-6D1	10-23-63		2000	7.9	170 8.50	88 7.18	155 6.75	3.5 0.09	0 0.00	264 4.34	125 2.61	539 15.21	0 0.00	0.1 0.01	2.0	15		1450	30	784	567	OWR
		5-5-64		2360									563 15.88										DWR
L. Milani irrigation	5S/1W-6G1	10-23-63		825	8.4	65 3.24	23 1.86	99 4.30	2.5 0.06	4.2 0.14	273 4.48	32 0.67	149 4.19	2.1 0.03	0.1 0.01	0.3	15		622	45	255	24	OWR
		5-7-64		2120									533 15.03										DWR
Alameda County East Bay Title Insurance Company domestic, duck pond	5S/1W-9J1	10-23-63		950	8.2	34 1.70	40 3.33	116 5.05	2.3 0.06	0 0.00	231 3.78	42 0.88	201 5.65	0 0.00	0.2 0.01	0.5	22		588	50	251	62	OWR
		5-5-64		1980									409 11.54			0.5							DWR
A. F. Brosius irrigation and domestic	5S/1W-9K1	10-22-63		860	8.2	46 2.28	43 3.47	87 3.80	4.3 0.11	0 0.00	281 4.60	56 1.17	135 3.81	3.6 0.06	0.1 0.01	0.3	25		596	39	287	57	OWR
		5-64		963									95 2.68										DWR
W. B. Brinker irrigation	5S/1W-9M1	5-64		1490									317 8.94										DWR
Lawrence Roland, Jr. water ponds	5S/1W-15C1	5-64		957									69 1.94										DWR
P. G. & E. industrial and domestic	5S/1W-17A1	10-17-63		570	8.3	42 2.08	13 1.08	69 3.00	2.5 0.06	3.0 0.10	295 4.84	29 0.60	28 0.81	1.3 0.02	0.1 0.01	0.3	18		364	48	158	0	DWR
		5-64		675									28 0.79										DWR
Phillip Encisco stock and domestic	5S/2W-1B1	10-24-63		520	8.5	19 0.94	3.3 0.27	113 4.90	1.4 0.04	12 0.40	283 4.64	25 0.53	20 0.57	0 0.00	0.1 0.01	0.4	20		370	80	60	0	DWR

TABLE 2-1

ANALYSES OF GROUND WATER
1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MD86M					EAST BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Phillip Encisco stock and domestic	5S/2W-18J1	5-6-64		582									18 0.51			0.4							DWR
Westvaco Chemical Co. industrial	5S/2W-1N1	5-7-64		435									13 0.37			0.2							DWR
						SOUTH BAY AREA OF SANTA CLARA VALLEY (2-9)																	
J. R. Coelho domestic	5S/1E-31E1	9-20-63	68	643									22 0.62			0.4			370				DWR
Winsor Bros. domestic	6S/1E-7C1	8-21-63	64	586									23 0.65			0.2			360				DWR
Azzarello irrigation	6S/1E-23M	8-27-63	66	828									65 1.83			2.6			486				DWR
Shattuck irrigation	6S/1E-27C	9-25-63	66	954	8.1	31 1.55	31 2.59	139 6.05	2.0 0.05	0 0.00	379 6.21	107 2.23	58 1.64	1.4 0.02		1.4			584	59	207	0	DWR
R. Murray domestic	6S/1E-28A4	8-21-63	64	590									21 0.59			0.4			352				DWR
M. Muchado irrigation and domestic	6S/1E-30M1	9-23-63	66	540									29 0.82			0.2			297				DWR
A. French irrigation and domestic	6S/1W-14E1	8-22-63	70	632									37 1.04			0.1			375				DWR
	6S/1W-15N3	8-16-63	66	450									15 0.42			0.1							DWR
	6S/1W-15Q1	8-31-63	70	1190									87 2.45			0.8			706				DWR
C. W. Dunton irrigation	6S/1W-17M1	9-25-63	60	442									14 0.39			0.2			268				DWR
G. H. Fukumoto domestic and irrigation	6S/1W-29C1	8-23-63	64	542									24 0.68			0.1			325				DWR
Rezentes domestic	6S/2W-9H1	8-26-63	68	548									30 0.85			0.2			318				OWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Analyzed by
						Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents			Total ppm	N.C. ppm	
	MDB&M					SOUTH BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
California Water Service Company municipal	6S/2W-20N1	9-30-63		571									45 1.27			0.1			304				OWR
Homm Bros.	6S/2W-24M3	9-26-63	68	516									20 0.56			0.2			312				OWR
H. Mantelli irrigation and domestic	6S/2W-34M1	9-26-63	70	601									29 0.82			0.0							
W. S. Bennet domestic and irrigation	7S/1W-5L1	8-26-63	68	648									34 0.96						392				DWR
	7S/1E-20B	8-15-63	70	692	7.9	25 1.25	31 2.53	78 3.39	1.2 0.03	0 0.00	292 4.78	58 1.21	37 1.04	2.8 0.04		0.2			396	47	189	0	DWR
J. A. Baptista domestic and irrigation	7S/1E-25A2	8-14-63	72	1032	8.5	27 1.35	101 8.32	56 2.44	1.1 0.03	20 0.67	479 7.85	20 0.42	98 2.76	12 0.19		0.2			596	20	484	58	DWR
Mayfair Packing Co. irrigation	7S/1W-35H1	9-27-63	60	443	7.9	36 1.80	22 1.84	17 0.74	1.3 0.03	0 0.00	157 2.57	62 1.29	14 0.39	10 0.16		0.1			269	17	182	53	OWR
A. Jaca irrigation	7S/2E-6N	8-13-63	72	882												0.2			543				OWR
M. F. Douglass domestic	7S/2E-18B1	9-19-63	64	1180												0.4			695				DWR
Yonemoto domestic and irrigation	7S/2E-19E1	8-14-63		850												0.2			493				OWR
H. Gerdts domestic	7S/2E-33D	9-18-63	62	864												0.2			506				OWR
T. Yuki irrigation	8S/1W-10G	9-6-63	67	409	8.1	40 2.00	17 1.38	19 0.83	1.2 0.03	0 0.00	179 2.93	28 0.58	18 0.51	9.0 0.14		0.1			231	20	169	22	OWR
	8S/1W-13A2	9-10-63	64	445									29 0.82			0.1							DWR
	8S/1W-15B1	9-10-63	64	678	8.2	56 2.79	38 3.16	29 1.26	1.4 0.04	0 0.00	242 3.97	59 1.23	35 0.99	52 0.84		0.2			416	17	298	100	OWR
L. F. Farrone irrigation	8S/1E-4L	8-6-63	65	477												0.1			282				OWR

ANALYSES OF GROUND WATER
1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					SOUTH BAY AREA OF SANTA CLARA VALLEY (2-9) (Cont.)																	
Hall irrigation	8S/1E-13K	9-12-63	70	937												0.2			588				DWR
Athenour Bros. irrigation	8S/1E-16Q1	8-15-63	70	369	7.9	30 / 1.50	22 / 1.82	13 / 0.56	2.7 / 0.07	0 / 0.00	181 / 2.97	27 / 0.56	8.5 / 0.24	2.4 / 0.04		0.1			218	14	166	18	DWR
Fammatre domestic	8S/1E-17B	8-6-63	62	360	7.9	28 / 1.40	22 / 1.84	12 / 0.52	0.9 / 0.02	0 / 0.00	177 / 2.90	25 / 0.52	8.5 / 0.24	1.0 / 0.02		0.2			203	14	162	17	DWR
F. Mazzone domestic & irrigation	8S/1E-27C1	9-10-63	62	733	8.3	39 / 1.95	57 / 4.70	32 / 1.39	0.6 / 0.02	0 / 0.00	280 / 4.59	91 / 1.89	27 / 0.76	36 / 0.58		0.5			435	17	333	103	DWR
IBM Corp. irrigation	8S/2E-7E	8-7-63	64	610	7.9	43 / 2.14	42 / 3.43	25 / 1.09	1.6 / 0.04	0 / 0.00	279 / 4.57	58 / 1.21	19 / 0.54	9.4 / 0.15		0.2			352	16	279	50	DWR
Rouse domestic	8S/2E-16E1	9-12-63	70	531	8.2	50 / 2.50	29 / 2.42	21 / 0.91	1.3 / 0.03	0 / 0.00	260 / 4.26	42 / 0.87	20 / 0.56	7.6 / 0.12		0.1			336	16	246	33	DWR
Kawashima	8S/2E-17L2	8-8-63	63	616									18 / 0.51			0.2			351				DWR
Benson domestic	8S/2E-34A1	8-8-63	61	558	7.8	46 / 2.30	31 / 2.58	26 / 1.13	1.4 / 0.04	0 / 0.00	220 / 3.60	66 / 1.37	18 / 0.51	26 / 0.42		0.2			351	19	244	64	DWR
H. Ramke irrigation	9S/2E-2C1	8-8-63	61	520	7.8	29 / 1.45	31 / 2.55	31 / 1.35	1.4 / 0.04	0 / 0.00	194 / 3.18	58 / 1.21	20 / 0.56	21 / 0.34		0.2			304	25	200	41	DWR
J. Martinez irrigation	9S/3E-22B3	8-9-63	68	459												0.1			266				DWR
J. Chiri irrigation	9S/3E-36F	8-12-63	64	463	8.1	44 / 2.20	17 / 1.42	27 / 1.17	1.9 / 0.05	0 / 0.00	203 / 3.33	21 / 0.44	22 / 0.62	22 / 0.35		0.1			268	24	181	15	DWR
						LIVERMORE VALLEY (2-10)																	
T. P. Bishop Co. irrigation	2S/1W-22A1	6-30-64	67	1050	8.3	76 / 3.79	18 / 1.44	118 / 5.13	2.4 / 0.06	4 / 0.13	306 / 5.02	13 / 0.27	168 / 4.74	0.6 / 0.01		0.3			579	49	262	5	DWR
Alameda County domestic	3S/1E-3Q1	6-30-64	64	1280	8.2	123 / 6.14	5.0 / 0.41	148 / 6.44	1.4 / 0.04	0 / 0.00	448 / 7.34	70 / 1.46	133 / 3.75	29 / 0.47		2.2			742	49	328	0	DWR
U. S. Air Force domestic and irrigation	3S/1E-8H3	6-30-64	65	895	8.2	64 / 3.19	56 / 4.64	37 / 1.61	1.6 / 0.04	0 / 0.00	358 / 5.87	53 / 1.10	80 / 2.26	9.5 / 0.15		0.4			526	17	392	98	DWR
	3S/1E-9K2	6-30-64	65	1220	8.1	64 / 3.19	80 / 6.56	79 / 3.44	2.5 / 0.06	0 / 0.00	452 / 7.41	79 / 1.64	128 / 3.61	21 / 0.34		1.6			684	26	488	117	DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					LIVERMORE VALLEY (2-10) (Cont.)																	
Neilson	3S/1E-9L1	6-30-64	64	1440	8.0	102 / 5.09	80 / 6.54	92 / 4.00	2.8 / 0.07	0 / 0.00	508 / 8.33	94 / 1.96	170 / 4.80	19 / 0.31		1.7			816	25	582	166	DWR
Jamieson irrigation	3S/1E-11E1	6-30-64	66	1300	8.3	94 / 4.69	81 / 6.68	53 / 2.30	2.4 / 0.06	0 / 0.00	449 / 7.36	45 / 0.94	177 / 4.99	14 / 0.22		0.7			743	17	569	201	DWR
Ed Hageman domestic and irrigation	3S/1E-11H1	6-30-64	66	779	8.2	123 / 6.14	9.4 / 0.77	33 / 1.44	1.8 / 0.05	0 / 0.00	316 / 5.18	40 / 0.83	63 / 1.78	20 / 0.32		0.4		ABS 0.0	451	17	346	87	DWR
California Rock and Gravel Company domestic	3S/1E-13P2	6-30-64		696	8.1	97 / 4.84	1.2 / 0.10	52 / 2.26	1.6 / 0.04	0 / 0.00	275 / 4.51	44 / 0.92	58 / 1.64	1.4 / 0.02		0.9		ABS 0.0	364	31	247	21	DWR
H. J. Kaiser Ind. domestic	3S/1E-15L1	6-30-64	64	546	8.1	87 / 4.34	3.6 / 0.30	25 / 1.09	1.1 / 0.03	0 / 0.00	222 / 3.64	36 / 0.75	31 / 0.87	13 / 0.21		0.2			304	19	232	50	DWR
M. Kruse irrigation	3S/1E-17H2	6-30-64	66	1150	7.8	107 / 5.34	63 / 5.21	42 / 1.83	2.2 / 0.06	0 / 0.00	412 / 6.75	72 / 1.50	131 / 3.70	14 / 0.22		0.4			686	15	528	190	DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
						CENTRAL COASTAL REGION (No. 3)																	
	MDB&M					PAJARO VALLEY (3-2)																	
S. H. Gandrup domestic and irrigation	11S/2E-27A1	9-26-63		629									57 1.61										OWR
		5-21-64		715	8.2	78 3.89	21 1.72	46 2.00	1.7 0.04	0 0.00	290 4.75	51 1.06	56 1.58	0.8 0.01		0.0			408	26	281	43	DWR
Frank T. Blake irrigation	12S/1E-11L1	9-26-63		430									19 0.54										DWR
Sunset Beach Park domestic	12S/1E-11N1	9-26-63	66	426									4.6 0.13										DWR
		5-20-64		428	8.0	28 1.40	24 2.00	22 0.96	1.7 0.04	0 0.00	185 3.03	23 0.48	21 0.59	8.5 0.14		0.0			255	22	170	18	DWR
J. Rocha, Jr. irrigation	12S/1E-14J1	9-26-63	66	391									27 0.76										DWR
		5-20-64		396									29 0.82	44 0.71									DWR
E. L. Padden domestic	12S/1E-23R1	9-26-63		605									26 0.73					Fe 5.8 (Total)					DWR
H. Trafton irrigation	12S/1E-24G1	9-26-63		524									23 0.65										OWR
		5-20-64		518	8.1	35 1.75	30 2.45	28 1.22	3.8 0.10	0 0.00	255 4.18	28 0.58	22 0.62	0.7 0.01		0.1			304	22	210	1	DWR
domestic	12S/1E-24Q	5-20-64		466									14 0.39										OWR
A. O. Fagunden domestic and irrigation	12S/2E-11E4	9-26-63		1240	8.6	96 4.79	82 6.77	73 3.18	2.0 0.05	28 0.93	558 8.23	153 3.19	70 1.97	1.3 0.02	0.4 0.02	0.4	31		782	22	578	120	USGS
		5-21-64		1260									70 1.97										DWR
Kellog irrigation	12S/2E-18J1	6-11-64		494	8.2	78 3.89	4.0 0.33	26 1.13	2.5 0.06	0 0.00	242 3.97	34 0.71	16 0.45	0.4 0.01		0.1			285	21	211	13	DWR
City of Watsonville industrial and domestic	12S/2E-18K2	9-26-63		453									13 0.37										DWR
		5-20-64		452	8.0	42 2.10	18 1.52	27 1.17	1.9 0.05	0 0.00	214 3.51	36 0.75	13 0.37	0.4 0.01		0.0			275	24	181	6	DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M							PAJARO VALLEY (3-2) (Cont.)															
	12S/2E-18L1	5-21-64		454									14 0.39										OWR
E. Yappert irrigation and domestic	12S/2E-30E1	8-12-63	60	14000									5270 148.67			0.6							OWR
Ranger domestic	12S/2E-31A1	8-14-63	66	683									37 1.04										OWR
		9-26-63		702									45 1.27										OWR
		5-20-64		687									46 1.30	1.1 0.02									OWR
Johnson irrigation	12S/2E-32K1	9-26-63		585									77 2.17										OWR
		5-20-64		549	7.3	25 1.25	18 1.49	49 2.13	2.5 0.06	0 0.00	113 1.85	15 0.31	86 2.43	22 0.35		0.0			324	43	137	44	OWR
F. Capurro & Sons domestic and irrigation	13S/2E-6P1	9-25-63		1330									234 6.60										OWR
		5-20-64		1370	8.3	18 0.90	7.0 0.58	243 10.57	5.7 0.14	0 0.00	220 3.60	90 1.87	256 7.22	0.7 0.01		0.2			759	87	74	0	OWR
								GILROY-HOLLISTER BASIN (3-3)															
T. Andrade irrigation	9S/3E-25N3	6-17-64		484										17 0.27									OWR
P. L. Hudson irrigation	10S/3E-1E2	6-17-64		467										11 0.18									OWR
J. Orlando irrigation and domestic	10S/3E-23J1	6-17-64		448	7.5	31 1.55	26 2.15	18 0.78	0.8 0.02	0 0.00	197 3.23	13 0.27	21 0.59	36 0.58		0.0			276	17	185	40	OWR
E. H. Henderson domestic and irrigation	10S/3E-26J1	6-17-64		432										17 0.27									OWR

TABLE E-1

ANALYSES OF GROUND WATER
1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M							GILROY-HOLLISTER BASIN (3-3) (Cont.)															
Vowinkel domestic	10S/4E-17F1	6-17-64		700								12 0.25		8.5 0.14									
E. Nichols domestic and irrigation	10S/4E-18G2	6-17-64		494	7.6	39 1.95	28 2.33	18 0.78	1.0 0.02	0 0.00	214 3.51	26 0.54	18 0.51	22 0.35		0.1			289	15	214	39	DWR
Walter Henzi dom. and irrigation	10S/4E-18J1	6-17-64		447								17 0.35	18 0.51	8.5 0.14									
D. Wolfe irrigation and domestic	10S/4E-28D2	6-17-64		573	7.6	30 1.50	37 3.04	31 1.35	1.3 0.03	0 0.00	251 4.11	32 0.67	39 1.10	14 0.22		0.1			321	23	227	21	DWR
S. Armendariz irrigation and domestic	10S/4E-34L5	6-17-64		706	7.5	48 2.40	37 3.04	42 1.83	1.4 0.04	0 0.00	307 5.03	30 0.62	39 1.10	32 0.52		0.1			426	25	272	20	DWR
G. Hoeang irrigation	11S/4E-4Q3	6-17-64		927										84 1.35									DWR
Hugh Herman irrigation	11S/4E-8P2	6-17-64		517								12 0.34	8.7 0.14										
Mrs. C. R. Lanini domestic	11S/5E-27M1	6-17-64		557	7.6	50 2.50	26 2.12	26 1.13	1.3 0.03	0 0.00	256 4.20	43 0.90	23 0.65	3.4 0.05		0.3			317	19	231	21	DWR
Ferry Morse Seed Co. irrigation	12S/4E-34P2	6-18-64		2160	7.5	220 10.98	79 6.50	139 6.05	3.1 0.08	0 0.00	488 8.00	424 8.83	244 6.88	27 0.44		0.5			1510	26	875	475	DWR
Olympia School domestic	12S/4E-35C1	6-18-64		1760								354 7.37				0.9							
M. Diaz domestic	12S/4E-36G1	6-18-64		2040	7.9	89 4.44	140 11.54	157 6.83	4.0 0.10	0 0.00	617 10.11	451 9.39	96 2.71	1.8 0.03		1.2			1380	30	800	294	DWR
	12S/5E-20N1	9-18-63		4820	7.8			779 37.30	11 0.28				1290 36.38			1.2			2560	76	516		DWR
	12S/5E-28C2	9-18-63		2370	8.1			196 8.53	4.2 0.11				210 5.92			1.3			1650	31	948		DWR
	12S/5E-29G1	9-17-63	69	4330	8.4			726 31.58	12 0.31				1200 33.85			1.7			2330	78	434		DWR
	12S/5E-29G2	9-18-63		2000	8.3			258 11.22	4.6 0.12				272 7.67			1.3			1210	53	485		DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluorids (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					GILROY-HOLLISTER BASIN (3-3) (Cont.)																	
	12S/5E-29G3	9-18-63		2510	8.2			235 10.22	3.6 0.09				317 8.94			1.5			1670	37	850		DWR
	12S/5E-29J1	9-18-63	65	2740	8.4			455 19.79	7.6 0.19				426 12.02			1.3			1680	73	353		DWR
F. Freitas & Furtado domestic and irrigation	12S/5E-33A1	6-18-64		1900	7.9	89 4.44	135 11.12	154 6.70	4.2 0.11	0 0.00	894 14.65	227 4.73	101 2.85	7.6 0.12		1.0			1230	30	779	46	DWR
P. Rovella domestic and irrigation	12S/5E-36A1	6-18-64		1330	8.3	14 0.70	16 1.28	274 11.92	2.5 0.06	0 0.00	492 8.06	67 1.39	145 4.09	1.2 0.02		1.5			785	85	99	0	DWR
Mrs. S. Brandon domestic and stock	12S/6E-7M2	6-17-64		415	7.9	16 0.80	12 0.96	51 2.22	3.5 0.09	0 0.00	219 3.59	0.2 0.00	22 0.62	0.8 0.01		0.8			287	54	88	0	DWR
C. T. Pillsbury domestic and irrigation	12S/6E-31B1	6-18-64		2450	8.1	41 2.04	56 4.61	397 17.27	3.3 0.08	0 0.00	536 8.78	109 2.27	469 13.23	0.4 0.01		3.0			1380	72	333	0	DWR
First Presbyterian Church domestic	13S/5E-3J1	6-16-64		1440	7.9	60 2.99	78 6.42	130 5.66	3.3 0.08	0 0.00	375 6.15	273 5.68	122 3.44	9.2 0.15		0.8			928	37	471	163	DWR
Victor Lompa irrigation	13S/5E-11B5	6-16-64		1540								285 5.93	127 3.58			0.9							
V. Lompa irrigation	13S/5E-11G1	6-16-64		1420								252 5.25	116 3.27			0.8							
						SALINAS VALLEY (3-4)																	
Monterey Bay Salt Co. domestic and industrial	13S/2E-7R1	8-23-63	68	924									98 2.76			0.2							DWR
Delfino & Calcagno irrigation and domestic	13S/2E-17H1	8-23-63	65	1580	8.1	70 3.49	42 3.42	160 6.96	13 0.33	0 0.00	237 3.88	39 0.81	344 9.70	3.3 0.05		0.2			931	49	346	152	DWR
T. Leonardini domestic and irrigation	13S/2E-19R1	8-22-63	69	890	8.2	53 2.66	28 2.30	101 4.40	3.1 0.08	0 0.00	236 3.86	29 0.59	178 5.02	0.9 0.01	0.1 0.01	0.2	32		600	47	248	55	DWR

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million (equivalents per million)												Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$		Analyzed by
						Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents			Total ppm	N.C. ppm	
	MDB&M							SALINAS VALLEY (3-4) (Cont.)														
J. Tate domestic and irrigation	13S/2E-20R2	8-23-63	65	1200	7.8	87 / 4.34	36 / 2.93	91 / 3.96	3.8 / 0.10	0 / 0.00	166 / 2.72	60 / 1.25	227 / 6.40	46 / 0.74		0.0			743	35	364	228	DWR
Permanente industrial	13S/2E-29C4	8-23-63	66	1290				160 / 6.96					263 / 7.42									DWR
J. J. King irrigation	13S/2E-31Q2	8-22-63	70	770	8.1	46 / 2.28	16 / 1.30	104 / 4.50	3.1 / 0.08	0 / 0.00	222 / 3.64	30 / 0.62	144 / 4.05	1.3 / 0.02	0.1 / 0.01	0.3	37		476	55	179	0	DWR
Molera Estate domestic	13S/2E-31K2	8-22-63	69	545	8.3	45 / 2.24	12 / 0.99	61 / 2.65	2.4 / 0.06	4.8 / 0.16	228 / 3.74	17 / 0.36	64 / 1.80	1.7 / 0.03	0.1 / 0.01	0.1	32		330	22	162	0	DWR
E. Ballone irrigation	13S/2E-31M2	8-22-63	63	1400	8.1	93 / 4.67	50 / 4.06	135 / 5.87	4.5 / 0.12	0 / 0.00	179 / 2.94	62 / 1.30	364 / 10.25	0.8 / 0.01	0.2 / 0.01	0.2	33		886	40	436	289	DWR
irrigation	13S/2E-32A2	8-27-63	73	648	8.2	45 / 2.24	20 / 1.64	62 / 2.70	3.0 / 0.08	0 / 0.00	244 / 4.00	12 / 0.25	78 / 2.20	3.1 / 0.05		0.1			379	40	194	0	DWR
O. P. Overhause irrigation	13S/2E-32C1	8-22-63	62	515	8.3	44 / 2.20	12 / 1.02	55 / 2.40	2.5 / 0.06	8.4 / 0.28	207 / 3.40	15 / 0.32	60 / 1.69	0.8 / 0.01	0.1 / 0.01	0.1	32		306	42	161	0	DWR
Molera Estate irrigation	13S/2E-32N1	8-29-63	71	564				68 / 2.96					63 / 1.78									DWR
C. Risaotti irrigation and domestic	13S/2E-33R1	8-27-63	66	890	8.0	83 / 4.14	27 / 2.23	56 / 2.44	3.9 / 0.10	0 / 0.00	241 / 3.95	97 / 2.02	102 / 2.88	10 / 0.16		0.0			551	27	319	121	DWR
Mrs. L. Martin irrigation and domestic	14S/2E-6Q1	8-21-63	73	570	8.4	33 / 1.66	12 / 1.00	81 / 3.50	2.4 / 0.06	3.0 / 0.10	220 / 3.60	40 / 0.84	60 / 1.69	2.1 / 0.03	0.1 / 0.01	0.2	39		364	56	133	0	DWR
E. Struve irrigation	14S/2E-6R2	8-21-63	65	561				64 / 2.78					54 / 1.52			0.0						DWR
Dorothy V. Orcutt irrigation	14S/2E-9K1	9-30-63	68	1050	8.1	86 / 4.29	32 / 2.68	66 / 2.87	4.5 / 0.12	0 / 0.00	181 / 2.97	105 / 2.19	167 / 4.71	1.4 / 0.02		0.1			628	29	349	201	DWR
E. C. Eaton irrigation	14S/2E-12Q1	8-22-63	62	500	8.5	58 / 2.86	17 / 1.39	37 / 1.60	1.9 / 0.05	12 / 0.40	230 / 3.76	18 / 0.38	43 / 1.19	4.7 / 0.08	0.2 / 0.01	0.1	27		316	27	213	5	DWR
L. A. Wilder domestic	14S/2E-14N1	8-22-63	62	627									61 / 1.72			0.1						
Monterey County Bank irrigation and domestic	14S/2E-15L1	8-22-63	64	587									39 / 1.10			0.2						DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M							SALINAS VALLEY (3-4) (Cont.)															
John W. Orcutt irrigation	14S/2E-16A1	8-23-63	67	664									48 / 1.35			0.1							DWR
M. T. DeSerpa irrigation	14S/2E-24E1	8-28-63	68	621	8.1	47 / 2.34	18 / 1.46	52 / 2.26	3.1 / 0.08	0 / 0.00	203 / 3.33	38 / 0.79	69 / 1.95	3.0 / 0.05		0.1			378	37	190	24	DWR
M. T. DeSerpa irrigation	14S/2E-25B1	8-28-63	64	1090									172 / 4.85			0.2							DWR
O. P. McFadden irrigation	14S/2E-35Q1	8-20-63	66	440	8.3	48 / 2.41	13 / 1.06	29 / 1.25	2.9 / 0.07	2.4 / 0.08	147 / 2.42	88 / 1.85	18 / 0.49	0.8 / 0.01	0.2 / 0.01	0.1	33		300	26	173	48	DWR
A. Lanini irrigation and domestic	14S/3E-30E1	8-22-63	62	1750	8.0	120 / 6.01	76 / 6.26	167 / 7.25	5.3 / 0.14	0 / 0.00	307 / 5.04	235 / 4.91	326 / 9.21	10 / 0.16	0.1 / 0.01	0.3	29		1218	37	613	361	DWR
P. G. & E. municipal	14S/3E-33G1	8-19-63	64	660	8.3	50 / 2.47	25 / 2.08	58 / 2.50	2.8 / 0.07	3.6 / 0.12	197 / 3.24	73 / 1.52	74 / 2.09	4.3 / 0.07	0.2 / 0.01	0.1	36		444	35	227	59	DWR
irrigation and domestic	15S/2E-1A3	8-24-63	64	454	8.2	47 / 2.34	13 / 1.04	26 / 1.13	3.4 / 0.09	0 / 0.00	162 / 2.66	66 / 1.37	15 / 0.42	2.0 / 0.02		0.0			251	25	169	36	DWR
L. Jacks irrigation	15S/2E-2Q1	7-63	62	1010	8.0	62 / 3.09	57 / 4.65	75 / 3.26	4.1 / 0.10	0 / 0.00	257 / 4.21	217 / 4.52	76 / 2.14	0.5 / 0.01	0.1 / 0.01	0.2	48		684	29	387	176	USGS
irrigation	15S/3E-4K3	8-12-63	66	674									37 / 1.04			0.2							DWR
F. Giottinini domestic and irrigation	15S/3E-7Q1	8-13-63	60	1240	8.1	92 / 4.58	72 / 5.85	82 / 3.55	4.7 / 0.12	0 / 0.00	246 / 4.04	314 / 6.54	130 / 3.67	0 / 0.00	0.1 / 0.01	0.2	13		976	25	521	319	DWR
K. R. Nutting irrigation	16S/4E-24A1	8-1-63	60	1610	7.8	103 / 5.14	73 / 5.99	134 / 5.83	4.9 / 0.12	0 / 0.00	196 / 3.21	439 / 9.14	127 / 3.58	55 / 0.89		0.4			1120	34	557	396	DWR
J. C. Twisselman irrigation	16S/4E-25K1	8-1-63	60	1130								292 / 6.08				0.2							
Field Estates	17S/5E-14Q1	5-25-64		723	8.1	59 / 2.94	19 / 1.58	59 / 2.57	3.5 / 0.09	0 / 0.00	218 / 3.57	76 / 1.58	70 / 1.97	15 / 0.24		0.0		Al 0.05 As 0.00 Cu 0.01 Pb 0.00 Mn 0.00 Zn 0.01 Phenol 0.004 Fe 0.36 (Total)	422	36	226	47	DWR
N. Baker irrigation	17S/6E-27K1	7-29-63	67	1370	8.2	129 / 6.44	53 / 4.35	95 / 4.13	3.9 / 0.10	0 / 0.00	290 / 4.75	348 / 7.24	95 / 2.68	4.8 / 0.08		0.3			978	27	540	302	DWR

TABLE 2-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C ppm	Analyzed by
	MDB&M							SALINAS VALLEY (3-4) (Cont.)															
Mort Baker irrigation	17S/6E-35F1	7-29-63	63	1150									78 / 2.20			0.8							DWR
L.M. & V. Jacke irrigation	18S/6E-1E1	7-24-63	68	830	8.1	65 / 3.24	22 / 1.85	82 / 3.57	4.4 / 0.11	0 / 0.00	249 / 4.08	156 / 3.25	38 / 1.07	10 / 0.16		0.3			528	41	255	51	DWR
L. Jacke irrigation	18S/6E-2N1	8-29-63	60	1180									322 / 6.70	77 / 2.17									
Kaiser stock	19S/7E-17P1	5-25-64		1470	8.2	145 / 7.24		103 / 4.48		0 / 0.00	238 / 3.90		105 / 2.96			0.2							DWR
S. J. Marks domestic and irrigation	19S.7E-17Q2	5-25-64		1260	7.9	116 / 5.79		77 / 3.35		0 / 0.00	240 / 3.93		163 / 4.60			0.1							DWR
A. Durete irrigation	20S/8E-5R1	5-25-64		1750	8.2	129 / 6.44	52 / 4.27	178 / 7.74	4.8 / 0.12	0 / 0.00	290 / 4.75	407 / 8.47	180 / 5.08	0.6 / 0.01		1.0		Al 0.06 Ae 0.00 Cu 0.00 Pb 0.00 Mn 0.00 Zn 0.02 Phenol 0.003 Fe 0.01 (Total)	1210	42	536	298	DWR
	24S/12E-17L2	9-23-63	74	1462	7.3	101 / 5.04	63 / 5.18	140 / 6.09	5 / 0.13	0 / 0.00	320 / 5.24	469 / 9.76	47 / 1.33	5.5 / 0.09	0.6	0.46	50		1075		511		DWR
	24S/15E-17F	9-24-63	66	1664	7.8	52 / 2.59	100 / 8.22	180 / 7.83	4 / 0.10	0 / 0.00	525 / 8.60	294 / 6.12	145 / 4.09	4.0 / 0.06	0.5	1.35	40		1020		541		DWR
	24S/15E-33C3	9-24-63	70	1404	7.8	66 / 3.29	65 / 5.35	165 / 7.17	3 / 0.08	0 / 0.00	522 / 8.56	188 / 3.91	113 / 3.19	7.5 / 0.12	0.4	1.10	48		870		432		DWR
	25S/12E-16N1	9-23-63	68	814	7.6	37 / 1.85	40 / 3.29	80 / 3.48	3 / 0.08	0 / 0.00	303 / 4.97	76 / 1.58	68 / 1.92	15 / 0.24	0.7	0.35	47		480		257		DWR
	25S/12E-28N1	9-24-63	62	1965	7.4	155 / 7.73	95 / 7.81	160 / 6.96	3 / 0.08	0 / 0.00	481 / 7.88	475 / 9.89	176 / 4.96	5.5 / 0.09	0.7	0.60	34		1390		778		DWR
	25S/13E-19R1	9-24-63	66	540	8.1	35 / 1.75	28 / 2.30	35 / 1.52	2 / 0.05	0 / 0.00	246 / 4.03	1 / 0.02	40 / 1.13	24 / 0.39	0.8	0.12	44		315		203		DWR
	25S/14E-33Q1	9-24-63		631	8.3	31 / 1.55	22 / 1.81	72 / 3.13	3 / 0.08	0 / 0.00	304 / 4.98	42 / 0.87	24 / 0.68	6.4 / 0.10	0.7	0.44	45		407		168		DWR
	26S/12E-22P2	9-26-63	68	725	8.3	34 / 1.70	21 / 1.73	96 / 4.17	3 / 0.08	14 / 0.47	272 / 4.47	38 / 0.79	58 / 1.64	10 / 0.16	0.4	0.38	47		450		172		DWR
	26S/14E-35D1	9-26-63	72	478	7.6	41 / 2.05	10 / 0.82	42 / 1.83	4 / 0.10	0 / 0.00	176 / 2.88	24 / 0.50	43 / 1.21	10 / 0.16	0.5	0.06	40		300		144		DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M							SALINAS VALLEY (3-4) (Cont.)															
	26S/15E-2N1	9-24-63	72	2146	8.4	36 / 1.80	5 / 0.41	442 / 19.22	4 / 0.10	24 / 0.80	283 / 4.64	530 / 11.03	182 / 5.13	2.0 / 0.03	0.5	1.85	28		1370		111		DWR
	26S/15E-20N1	9-26-63	73	374	7.8	42 / 2.10	4 / 0.33	32 / 1.39	3 / 0.08	0 / 0.00	156 / 2.56	31 / 0.65	17 / 0.48	13 / 0.21	0.2	0.04	47		265		122		DWR
	26S/16E-31B1	9-26-63	74	1634	7.9	34 / 1.70	21 / 1.73	310 / 13.48	2 / 0.05	0 / 0.00	339 / 5.56	354 / 7.37	107 / 3.02	52 / 0.84	1.2	2.00	32		1060		172		DWR
	27S/12E-3C2	9-26-63	70	822	8.1	66 / 3.29	40 / 3.29	48 / 2.09	2 / 0.05	0 / 0.00	329 / 5.39	15 / 0.31	104 / 2.93	10 / 0.16	0.3	0.10	45		510		329		DWR
	27S/12E-29P2	7-10-63	63	1170	7.4	180 / 8.98	34 / 2.80	46 / 2.00	1 / 0.03	0 / 0.00	324 / 5.31	312 / 6.50	73 / 2.06	7.3 / 0.12	0.1	0.09	23		904		589		DWR
	27S/12E-29P3	7-10-63	69	970	7.8	124 / 6.19	41 / 3.37	38 / 1.65	1 / 0.03	0 / 0.00	311 / 5.10	231 / 4.81	48 / 1.35	3.2 / 0.05	0.1	0.11	21		724		478		DWR
	27S/12E-29P4	7-10-63	59	770	7.5	87 / 4.34	37 / 3.04	32 / 1.39	2 / 0.05	0 / 0.00	293 / 4.80	154 / 3.21	30 / 0.85	2.7 / 0.04	0.2	0.13	18		548		369		DWR
	27S/12E-32C3	7-11-63	62	900	7.4	113 / 5.64	38 / 3.13	37 / 1.61	1 / 0.03	0 / 0.00	314 / 5.15	169 / 3.52	41 / 1.16	3.2 / 0.05	0.2	0.11	23		654		439		DWR
	27S/12E-32C4	7-11-63	60	1210	7.6	131 / 6.54	79 / 6.50	46 / 2.00	2 / 0.05	0 / 0.00	360 / 5.90	352 / 7.33	62 / 1.75	14 / 0.23	0.2	0.10	21		1084		653		DWR
	27S/12E-32Q1	7-10-63	63	770	8.0	69 / 3.44	49 / 4.03	35 / 1.52	1 / 0.03	0 / 0.00	253 / 4.15	180 / 3.75	38 / 1.07	0 / 0.00	0.2	0.08	19		620		374		DWR
	27S/13E-9P1	9-26-63	73	653	8.4	14 / 0.70	9 / 0.74	130 / 5.65	2 / 0.05	24 / 0.80	327 / 5.36	12 / 0.25	23 / 0.65	4.0 / 0.06	0.4	0.38	44		410		72		DWR
	27S/15E-10R2	9-25-63	63	635	7.7	86 / 4.29	12 / 0.99	35 / 1.52	2 / 0.05	0 / 0.00	305 / 5.00	41 / 0.85	24 / 0.68	26 / 0.42	0.2	0.10	41		390		264		DWR
	27S/15E-13A1	9-25-63	72	4478	7.5	196 / 9.78	72 / 5.92	720 / 31.31	5 / 0.13	0 / 0.00	290 / 4.75	927 / 19.30	840 / 23.69	22 / 0.35	0.9	2.50	32		3008		786		DWR
	27S/16E-23N1	9-25-63	70	772	8.6	34 / 1.70	13 / 1.07	110 / 4.78	3 / 0.08	0 / 0.00	293 / 4.80	60 / 1.25	56 / 1.58	12 / 0.19	0.6	0.44	34		482		139		DWR
	28S/12E-4J2	7-10-63	58	650	7.7	106 / 5.29	34 / 2.80	25 / 1.09	1 / 0.03	0 / 0.00	229 / 3.75	136 / 2.83	22 / 0.62	2.3 / 0.04	0.1	0.09	22		480		405		DWR
	28S/12E-10R2	9-27-63	62	875	7.8	86 / 4.29	48 / 3.95	38 / 1.65	2 / 0.05	9 / 0.00	327 / 5.36	155 / 3.23	49 / 1.38	1.5 / 0.02	0.4	0.06	28		540		412		DWR

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M							SALINAS VALLEY (3-4) (Cont.)															
	28S/12E-14J2	7-9-63	62	570	8.0	50 / 2.50	35 / 2.88	26 / 1.13	1 / 0.03	0 / 0.00	244 / 4.00	75 / 1.56	28 / 0.79	5.2 / 0.08	0.2	0.05	20		446		269		DWR
	28S/12E-24F2	7-9-63	62	490	7.7	46 / 2.30	23 / 1.89	27 / 1.17	1 / 0.03	0 / 0.00	191 / 3.13	64 / 1.33	22 / 0.62	5.7 / 0.09	0.2	0.05	18		356		210		DWR
	28S/12E-25B1	7-10-63	61	540	7.7	51 / 2.54	33 / 2.71	20 / 0.87	1 / 0.03	0 / 0.00	210 / 3.44	85 / 1.77	20 / 0.56	9.2 / 0.15	0.2	0.0	22		400		263		DWR
	28S/12E-25B2	7-10-63	61	530	7.5	50 / 2.50	27 / 2.22	24 / 1.04	1 / 0.03	0 / 0.00	217 / 3.56	69 / 1.44	20 / 0.56	6.8 / 0.11	0.1	0.09	17		340		236		DWR
	28S/13E-31R2	9-27-63	68	1117	7.7	91 / 4.54	70 / 5.76	60 / 2.61	1 / 0.03	0 / 0.00	451 / 7.39	178 / 3.71	66 / 1.86	1.0 / 0.02	0.4	0.01	24		675		515		DWR
	28S/16E-14N1	9-25-63	62	541	7.9	47 / 2.35	22 / 1.81	35 / 1.52	1 / 0.03	0 / 0.00	168 / 2.75	102 / 2.12	24 / 0.68	11 / 0.18	0.4	0.04	35		340		208		DWR
								CARMEL VALLEY (3-7)															
R. Odello irrigation	16S/1W-13L1	8-7-63	62	735	8.1	70 / 3.49	22 / 1.78	47 / 2.04	4.6 / 0.12	0 / 0.00	218 / 3.57	96 / 2.00	62 / 1.75	1.1 / 0.02		0.1			450	27	264	85	DWR
Carmel Sewage Treatment Plant industrial	16S/1W-13L2	8-7-63	61	1000	8.1	88 / 4.39	25 / 2.06	79 / 3.44	4.9 / 0.12	0 / 0.00	265 / 4.34	106 / 2.21	126 / 3.55	1.4 / 0.02		0.1			611	34	323	106	DWR
B. Odello irrigation	16S/1W-13R1	8-7-63	62	708									57 / 1.61										OWR
	16S/1E-16L1	8-7-63	75	326									13 / 0.37										DWR
E. Haber irrigation	16S/1E-16N1	8-7-63	60	812	8.0	89 / 4.44	23 / 1.93	48 / 2.09	2.6 / 0.07	0 / 0.00	257 / 4.21	128 / 2.66	51 / 1.44	0.9 / 0.01		0.1			516	24	319	108	DWR
Harbert irrigation and domestic	16S/1E-17G1	8-7-63	66	1200	8.2	124 / 6.19	29 / 2.40	92 / 4.00	5.0 / 0.13	0 / 0.00	342 / 5.60	170 / 3.54	131 / 3.70	0.3 / 0.00		0.1			767	31	430	150	DWR
	16S/1E-18K1	8-7-63	61	650									51 / 1.44			0.0							DWR
irrigation																							
B. Odello irrigation	16S/1E-18P1	8-29-63	61	584				37 / 1.61					39 / 1.10										DWR

TABLE E-1

ANALYSES OF GROUND WATER

1964

Owner and use	State well number and other number	Date sampled	Temp in °F	Specific conductance (micromhos at 25° C)	pH	Mineral constituents in parts per million / equivalents per million: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Fluoride (F)	Boron (B)	Silica (SiO_2)	Other constituents	Total dissolved solids in ppm	Percent sodium	Hardness as $CaCO_3$: Total ppm	Hardness as $CaCO_3$: N.C. ppm	Analyzed by
	MDB&M					CARMEL VALLEY (3-7) (Cont.)																	
E. Holt irrigation	16S/1E-25B1	8-6-63	65	537	7.8	46 / 2.30	15 / 1.26	34 / 1.48	3.8 / 0.10	0 / 0.00	135 / 2.21	92 / 1.92	35 / 0.99	0.3 / 0.00		0.0			324	29	178	67	DWR

TABLE E-2

RADIOASSAYS OF GROUND WATER

WELL NUMBER	DATE SAMPLED	DATE ANALYZED	RADIOASSAY IN PICO CURIES PER LITER				
			SUSPENDED ACTIVITY		DISSOLVED ACTIVITY		GROSS ACTIVITY
			ALPHA	BETA	ALPHA	BETA	
			SANTA CLARA VALLEY 2-9 (East Bay)				
4S/1W-21F2	9-5-63	11-12-63					4.6 ± 4.6
4S/1W-21F2	12-5-63	1-8-64	0 ± 0.5	1.9 ± 6.0	0 ± 0.5	1.6 ± 6.0	
4S/1W-21F2	3-10-64	3-17-64 3-16-64	0 ± 0.3	0 ± 6.0	0.1 ± 0.4	1.1 ± 6.0	
4S/1W-21F2	6-12-64		-0.10 ± 0.80	-4.16 ± 7.57	-2.12 ± 0.91	11.57 ± 12.77	
4S/1W-21P6	12-5-63	1-9-63 1-8-64	0 ± 0.5	7.0 ± 8.0	0 ± 0.5	4.2 ± 5.9	
4S/1W-21P6	3-10-64	3-17-64 3-16-64	0 ± 0.4	0.44 ± 6.1	0 ± 0.4	0 ± 6.1	
4S/1W-21P6	6-12-64		0.70 ± 1.05	-7.37 ± 8.42	0.0 ± 2.61	-19.35 ± 12.33	

LEGEND

TYPE OF DATA

- ○ ● ◑ PRECIPITATION ONLY
- ◫ PRECIPITATION, STORAGE
- ○ ● ◑ PRECIPITATION AND TEMPERATURE
- ○ ● ◑ PRECIPITATION, TEMPERATURE AND EVAPORATION

TYPE OF GAGE

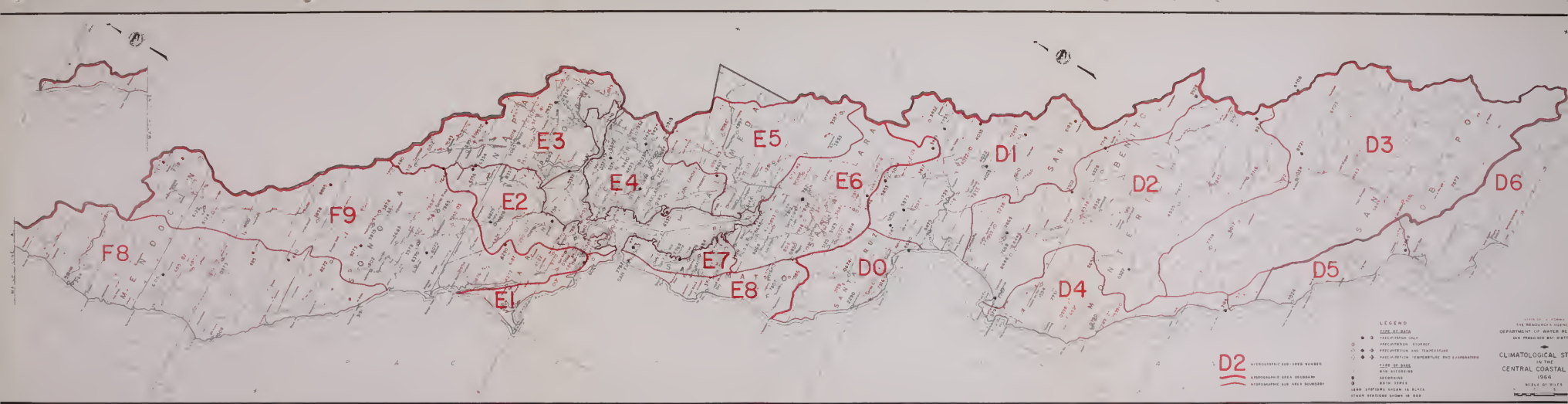
- ○ NON-RECORDING
- ● RECORDING
- ◑ BOTH TYPES

USWB STATIONS SHOWN IN BLACK
OTHER STATIONS SHOWN IN RED

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN FRANCISCO BAY DISTRICT

CLIMATOLOGICAL STATIONS IN THE CENTRAL COASTAL AREA 1964

SCALE OF MILES
5 0 5 10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SAN BENITO
SANTA CLARA
SAN LUIS OBISPO
MONTEREY
D2
LEGEND
TYPE OF DATA
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PRECIPITATION RUNOFF
PRECIPITATION AND TEMPERATURE
PRECIPITATION TEMPERATURE AND EVAPORATION
TYPE OF DATA
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WITH SYMBOL
DEPARTMENT OF WATER RE
CLIMATOLOGICAL ST
IN THE
CENTRAL COASTAL
1964

CLIMATOLOGICAL STATIONS

SANTA CRUZ COAST (No. 00)

0674 Ben Lomond
2159 Crest Ranch
2290 Davenport
2816 Santa Cruz
3640 Sunset Beach State Park
4615 Wilder Ranch

PAJARO-SAN BENITO RIVERS (No. 01)

1170 Buena Vista
1247 Buzzard Lagoon
1328 Chittenden Pass
1330-01 Chittenden
1766 Gilroy
2222 Freedom 8 NNW
3413 Gilroy
3422 Gilroy 14 ESE
3428 Hernandez 7 ESE
4022 Hollister
4022-10 Hollister Costa
4023 Hollister No. 2
4035 Hollister 10 ESE
5552 Morgan Hill SCS
5824 Morgan Hill 2 E
5973 Mount Madonna
5973-11 Mt. Madonna Co. Park
6610 Paicines Ohlwell Ranch
7190 Quien Sabe - Hay Camp
7249 Rancho Quien Sabe
7314 San Benito
7755 San Felipe Highway Station
7835 San Juan Bautista Mission
8447 Sprecicle Hill-Laguna Seca
8589 Upper Tres Pinos
8673 Watsonville Water Works

LOWER SALINAS RIVER (No. 02)

0312 Arroyo Seco
2262 Del Monte
2288 Fremont Peak State Park
2502 Gonzales 5 ESE
3591 Greenfield Baker
3722 Hames Valley
4552 King City
5795 Monterey
6630 Paloma
6876 Pinnacles National Mon.
7150 Priest Valley
7966 Salinas 2 E
7969 Salinas FAA Airport
7716 San Ardo
7843-10 San Lucas Guidici
7939-10 Santa Rita Mother
8276 Slack Canyon
8338 Soledad
8338-01 Soledad CTY
8445 Sprecicle Hwy. Bridge
8446-01 Sprecicle
8361-01 Atascadero HCS
1034 Bradley
1963 Linn Ranch
5017 Lockwood 2 N
6703 Parkfield
6706 Parkfield 7 NNW
7872 Salinas Dam
7716 San Antonio Mission
8349 Templeton
9281 Valleton

MONTEREY COAST (No. 04)

5760 Big Sur State Park
7948-21 Bouchara Cap
4334 Carmel Valley
3184 Lucia Willow Springs
4836 Pico Blanco R.S. Camp
7249-21 Rancho Rico
3539-01 Roosevelt Ranch
7731 San Clemente Dam

SAN LUIS OBISPO COAST (No. 05)

5120-03 Los Burros
5819 Morro Bay 3 N
7026 Point Piedras Blancas

SANTA MARIA-CUYAMA RIVERS (No. 06)

4175 Upper Morro Creek

COAST-MARIN (No. 21)

8027 Muir Woods

MARIN-SONOMA (No. 22)

3334 Hamilton A.F.B.
4300 Kentfield
5947 Mill Valley
6790-02 Novato Fire House
6326 Oakville 4 SW No. 2
6826 Petaluma F. S. No 2
6826-01 Petaluma - Burns
6829 Petaluma 1 N
6833 Phoenix Lake Dam
7707-01 San Anselmo
7850 San Rafael
7850-08 San Rafael Nat Bank
8351 Socoma
8779 Tamalpais Valley
8920-21 Tiburon-Topham

NAPA-SOLANO (No. 23)

0712 Agrvlt Fac. Union Col
0377 Atlas Road
1313 Calistoga
1537 Carneros Valley
1918 Collinsville
1976 Conn
2389-43 Davenport 1 S
2580 Dutton Landing
2933 Fairfield
2934 Fairfield Police Sta.
3612-01 Green Valley
4677 Lake Curry
5333 Mare Island
5055 Napa
5068 Napa Haven
6074 Napa State Hospital
6351 Oakville 1 WNW
6356 Oakville 4 SW
7643 Saint Helena
7648 Saint Helena 4 WSW
9006 Travis Air Force Base
9305 Vetarans Home
9875-41 Wild Horse Valley
9861 Yountville Gamble

EAST BAY (No. 24)

0054 Alamo 1 N
0893 Berkeley
1218 Burton Ranch
1562 Concord 3 E
2177 Crockett
2863 Hayward 6 ESE
4633 Lafayette 2 WNW
5371 Martinez 3 S
5372 Martinez 1 SSE
5373 Martinez Fire Station
5913 Mt. Diablo North Gate
6321 Oakland WB AP
7070 Port Chicago NAD
7414 Richmond
7661 Saint Mary's College
8185 Upper San Leandro Filters
9420 Walnut School
9421 Walnut Creek 2 ESE
9426 Walnut Creek 2 EKE
9427 Walnut Creek 4 E

ALAMEDA CREEK (No. 25)

1781 Calaveras Reservoir
3381 Gerber Ranch
4996 Livermore Sewage Plant
4997 Livermore 2 SSW
5922 Mt. Hamilton
6144 Newark
6189-03 Niles 5. F. Depot
6991-03 Pleasanton Nursery

SANTA CLARA VALLEY (No. 26)

0053 Almaden Parc. Pond
0125 Almaden Reservoir
0706 Berryessa 1 E (Toyon Ave.)
0830 Black Mountain 2 SW
1283 Calero Reservoir
1341-10 Cambrian Park
1377-01 Campbell Water Co
2109 Coyote Reservoir
2919 Evergreen-Silver Cr Rd.
3419 Gilroy 8 NE

SANTA CLARA VALLEY (No. 26) Cont'd

3681 Guadalupe Reservoir
4916 Leroy Anderson Dam
4922 Lexington Reservoir
5123 Los Gatos
5123-04 Los Gatos-Old Orchard Rd.
5125 Los Gatos 4 SW
5846 Morgan Hill 6 WNW
5897-01 Mt. View F. S.
6646 Palo Alto City Hall
6791-43 Peninsula Rain Co.
7339 Redwood City
7921 San Jose
7928 San Jose Derid. P. F.
7912 Santa Clara University
7993-01 Saratoga-Clarks
7998-03 Saratoga-Kriege
8068 Searsville Lake
8519 Stevens Creek Reservoir
9210 Vasona Reservoir
9814 Wrights

BAYSIDE-SAN MATEO (No. 27)

1206 Burlingame
2769 San Francisco WB AP
7372 San Francisco Fed. Office Bldg.
7864 San Mateo

COAST-SAN MATEO (No. 28)

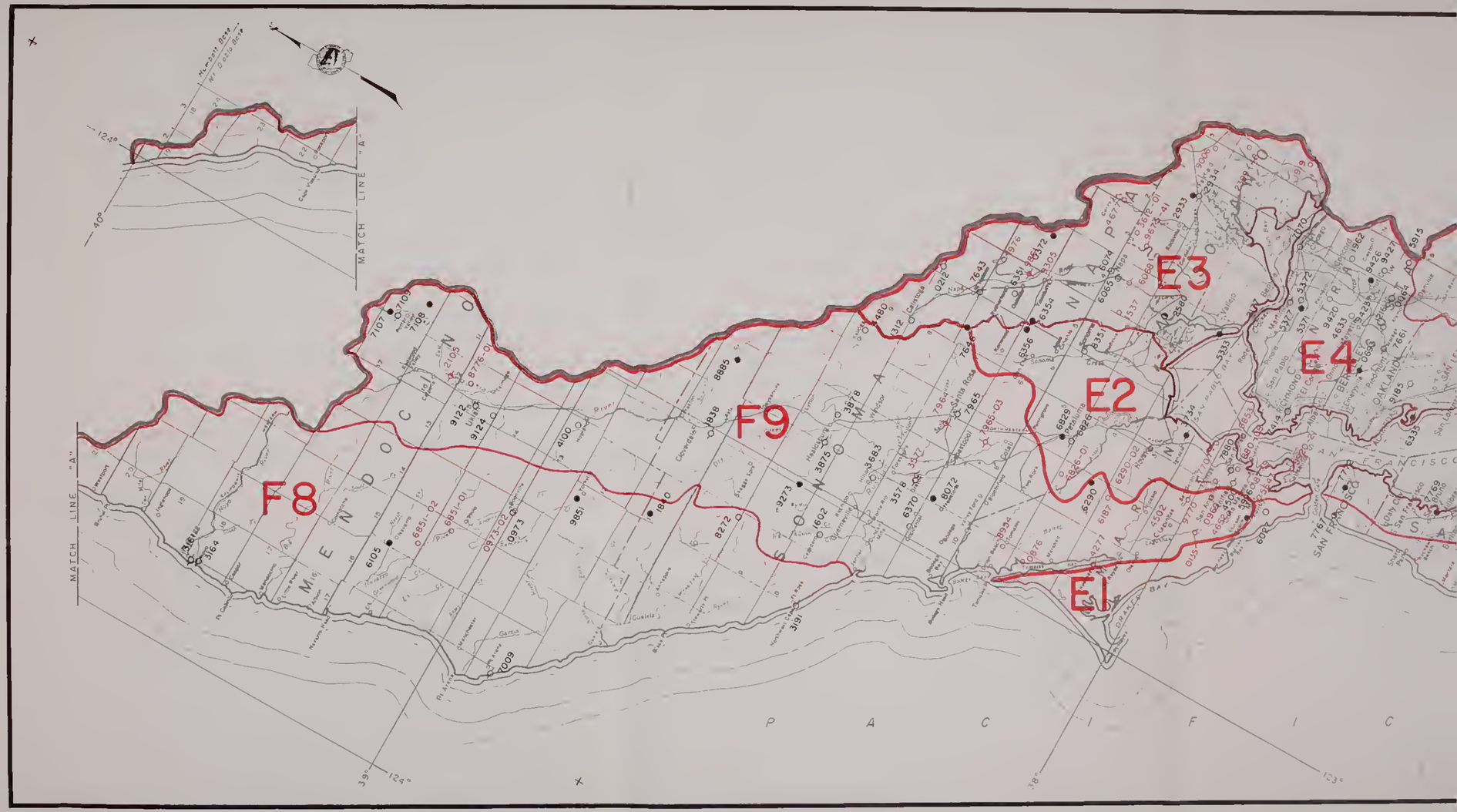
3714 Half Moon Bay 2 NNW
4560 La Honda
7086 Portola State Park
7767 San Francisco Richmond Sunset
7807 San Gregorio 3 NE

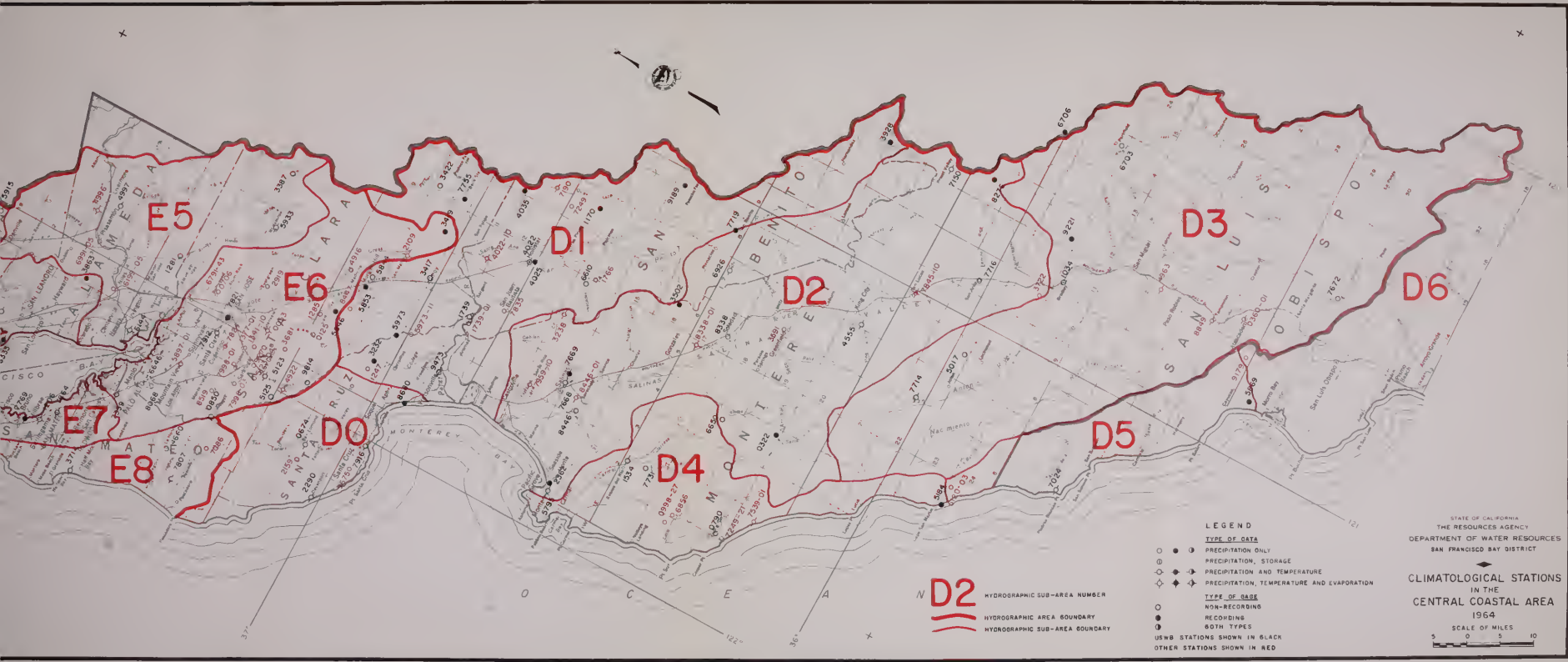
MENDOCINO COAST (No. 29)

0973 Boonville RMS
0973-02 Boonville-Ferrer
1840 Cloverdale 1 W
3101 Fort Bragg
3164 Fort Bragg Aviation
3191 Fort Ross
5105 Navarro 1 NW
6851-01 Philo 2 NW
6851-02 Philo 4 NW
7009 Point Arena
8772 Skaggs Spr. Las Lomas Ranch
9851 Yorkville

RUSSIAN RIVER (No. 29)

0133 Alpine Dam
0876 Bivacc Landing
0969 Box Zerger Dam
1602 Cazadero
1836 Cloverdale 3 SSE
2105 Coyote Dam-Lake Mendocino
3377 Graton
3378 Graton 1 W
3683 Guerneville
3815 Healdsburg
3878 Healdsburg 2 E
4100 Hopland Lirgo Station
4277 Inverness-Hery
4480 Kellogg
4502 Kent Lake
4532 Lagunitas Lake
5996 Mt. Tamalpais 2 SW
6187 Olivalo
6290 Novato 6 WNW
6370 Occidental
7107 Potter Valley 3 NNW
7108 Potter Valley 3 SE
7109 Potter Valley P. H.
7446 Saint Helena 4 WSW
7964 Santa Rosa Sewage Plant
7965 Santa Rosa
7965-03 Santa Rosa Fedrasnisi
8072 Sebastopol 4 SSE
8776-01 Talmage
8885 The Geysers
8934 Tomales
9122 Ukiah
9124 Ukiah 4 WSW
9273 Venado
9770 Woodacre

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SANTA CLARA
SAN MATEO
SANTA CRUZ
SAN BENITO
MONTEREY
SAN LUIS OBISPO
OCEAN
MONTEREY BAY
SALINAS
Arroyo Grande
Morro Bay
San Luis Obispo
Nacimiento
LEGEND
TYPE OF DATA
PRECIPITATION ONLY
PRECIPITATION, STORAGE
PRECIPITATION AND TEMPERATURE
PRECIPITATION, TEMPERATURE AND EVAPORATION
TYPE OF GAGE
NON-RECORDING
RECORDING
BOTH TYPES
USWB STATIONS SHOWN IN BLACK
OTHER STATIONS SHOWN IN RED
D2
HYDROGRAPHIC SUB-AREA NUMBER
HYDROGRAPHIC AREA BOUNDARY
HYDROGRAPHIC SUB-AREA BOUNDARY
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN FRANCISCO BAY DISTRICT
CLIMATOLOGICAL STATIONS
IN THE
CENTRAL COASTAL AREA
1964
SCALE OF MILES
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ATER QUALITY CONTROL
OARD REGION NUMERAL

ATER QUALITY CONTROL
OARD REGION BOUNDARY

ROUND WATER BASIN OR UNIT

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN FRANCISCO BAY DISTRICT

GROUND WATER BASINS OR UNITS
IN THE
CENTRAL COASTAL AREA
1964

SCALE OF MILES
5 0 5 10


F8
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LEGEND
DWR STATIONS
FEDERAL/STATE CO-OP STATIONS
FEDERAL COOPERATOR STATIONS
HYDROGRAPHIC AREA BOUNDARY
HYDROGRAPHIC SUB-AREA BOUNDARY
D2 HYDROGRAPHIC SUB-AREA NUMBER

SURFACE WATER MEASUREMENT STATIONS

SANTA CRUZ (Dv. 10)

1100 Branciforte Creek at Santa Cruz
1200 San Lorenzo River at Big Trees
1300 Zayante Creek at Zayante
2100 Aptos Creek at Aptos
3100 Soquel Creek at Soquel
3200 Soquel Creek West Br nr Soquel
4110 Scott Cr above Little Cr nr Swanton

PAJARO-SAN BENITO RIVERS (Dv. 11)

1125 Corralitos Creek at Freedom
1150 Corralitos Creek nr Corralitos
1350 Pajaro River nr Chittenden
1310 Pajaro River nr Gilroy
1351 Bodfish Creek nr Gilroy
1350 Uvas Creek nr Gilroy
1390 Uvas Cr. above Uvas Res nr. Morgan Hill
1540 Llagas Creek nr Morgan Hill
1600 San Felipe Lake nr San Felipe
1630 Pacheco Creek nr Dunneville
1750 Cedar Creek nr. Bell Station
2100 San Benito River nr Hollister
2260 Tres Pinos Creek nr Tres Pinos
2360 Pescadero Creek nr Paicines
2450 San Benito R nr Willow Creek School

LOWER SALINAS RIVER (Dv. 12)

1180 El Toro Creek nr Spreckels
1320 Salinas River nr Spreckels
1430 Arroyo Seco nr Soledad
1615 Arroyo Seco nr. Greenfield
1640 San Lorenzo Cr nr King City
1950 Tallman River nr Bradley

UPPER SALINAS RIVER (Dv. 13)

1700 Estrella River nr Estrella
1800 Chalone Creek nr Rhandon
1600 Nacimiento Creek nr Creston
1650 Salinas River at Paso Robles
1800 Jack Creek nr Templeton
1825 Santa Rita Creek nr Templeton
1875 Salinas River above Pittjes Creek
1925 Turo Creek nr Paso
2775 Salinas Reservoir nr Pozo
1800 Salinas River nr Pozo
2700 San Antonio River at Pleyto
2220 San Antonio R at San Jones Bridge
2300 Nacimiento River nr Argyle
3450 Nacimiento R below Nacimiento Dam

MONTEREY COAST (Dv. 14)

1010 Carmel River nr Carmel
1200 Carmel River at Robles del Rio
2100 Big Sur River nr Big Sur

SAN FRANCISCO BAY (Dv. 20)

3300 Alameda Creek at Niles

MARIN-SONOMA (Dv. 21)

1200 Coyote Madera Creek at Lows
2100 Novato Creek nr Novato
5200 Petaluma Creek nr Petaluma
4700 Sonoma Creek at Boyes Hot Springs

NAPA-SOLANO (Dv. 15)

1110 Sacramento River at Collinsville
1200 Redwood Creek nr. Napa
1250 Napa River nr Napa
1320 Dry Creek nr Napa
1400 Rector Reservoir nr Townsville
1500 Napa River nr St Helena

EAST BAY (Dv. 24)

3100 San Lorenzo Creek at Hayward
2200 Sheam Creek at San Pablo
4300 Walnut Creek at Walnut Creek
3150 San Ramon Creek at San Ramon

ALAMEDA CREEK (Dv. 25)

1050 Alameda Creek at Union City
1076 Dry Creek at Union City
1150 Alameda Creek nr Niles
1350 Arroyo Valle at Pleasanton
2400 Arroyo Valle nr Livermore
2410 Arroyo Mocho nr Pleasanton
2675 Arroyo Valle above Lang Canyon nr. Livermore
2440 Arroyo Mocho Blo Livermore
2450 Arroyo Mocho nr Livermore
2650 San Antonio Creek nr Sunol
2100 Patterson Creek at Union City

SANTA CLARA VALLEY (Dv. 26)

1100 Matadero Creek at Palo Alto
2225 San Francisquito Cr. at Stanford Univ
2253 San Francisquito Cr. Trib nr Stanford Univ
2255 San Francisquito Cr. Trib nr Stanford Univ
2275 San Francisquito Cr. below Lagunita Dam #1o
4050 Arroyo de los Gatos nr Milpitas
4750 Coyote Creek nr Montmo
4500 Coyote Creek nr Gilroy
5100 Saratoga Creek at Saratoga
5150 Guadalupe River at San Jose
5250 Los Gatos Creek at Los Gatos
5450 Hamilton Creek nr New Almaden
9005 Redwood Creek at Redwood City
9010 Sharon Creek nr Menlo Park
9230 Upper Penitencia Cr at San Jose
9510 Ross Creek at San Jose

ALAMEDA-SAN MATEO (Dv. 27)

2500 Colma Creek at So. San Francisco

COAST-SAN MATEO (Dv. 28)

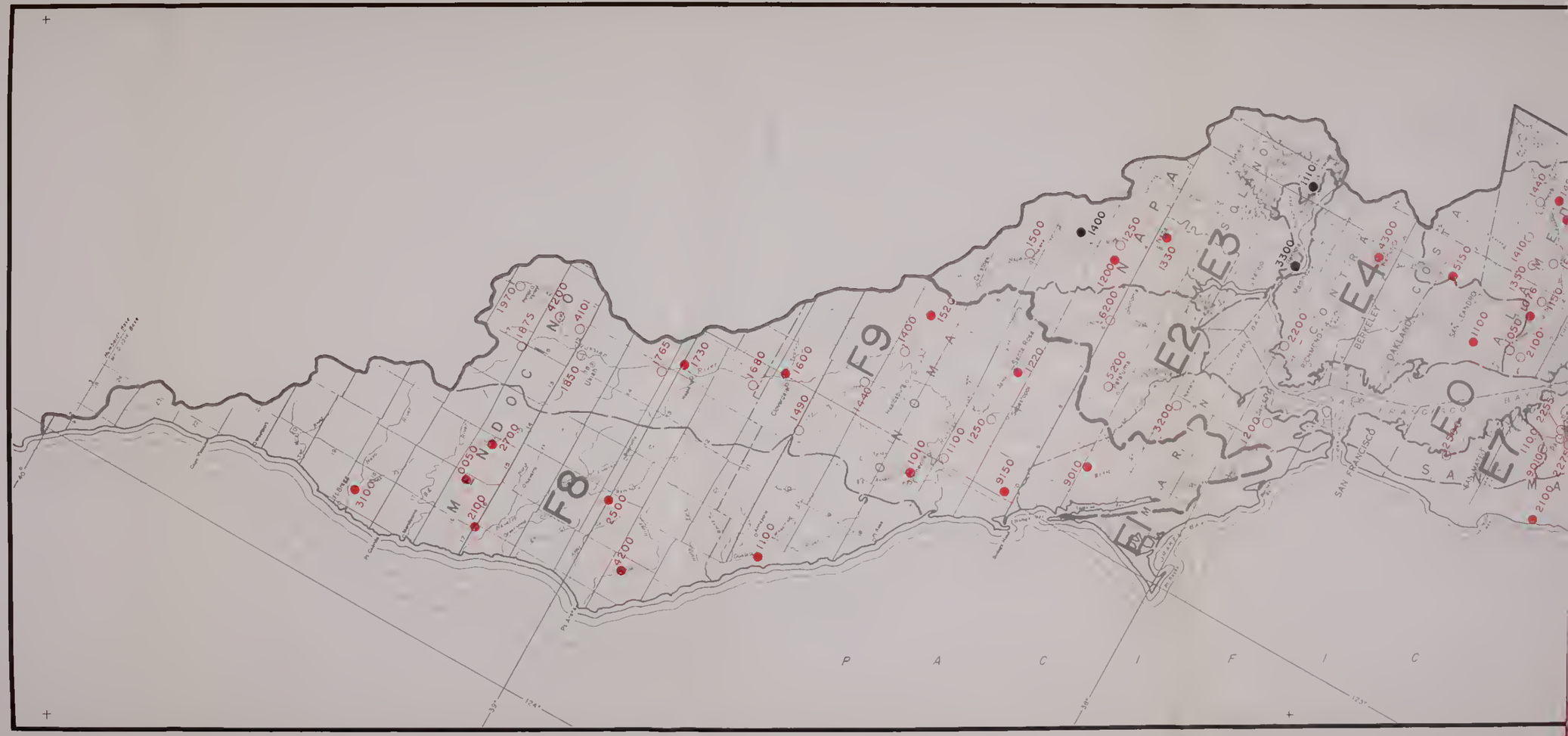
2100 Purisima Creek nr Half Moon Bay
5100 Pescadero Creek at Pescadero
3200 Butano Creek nr Pescadero

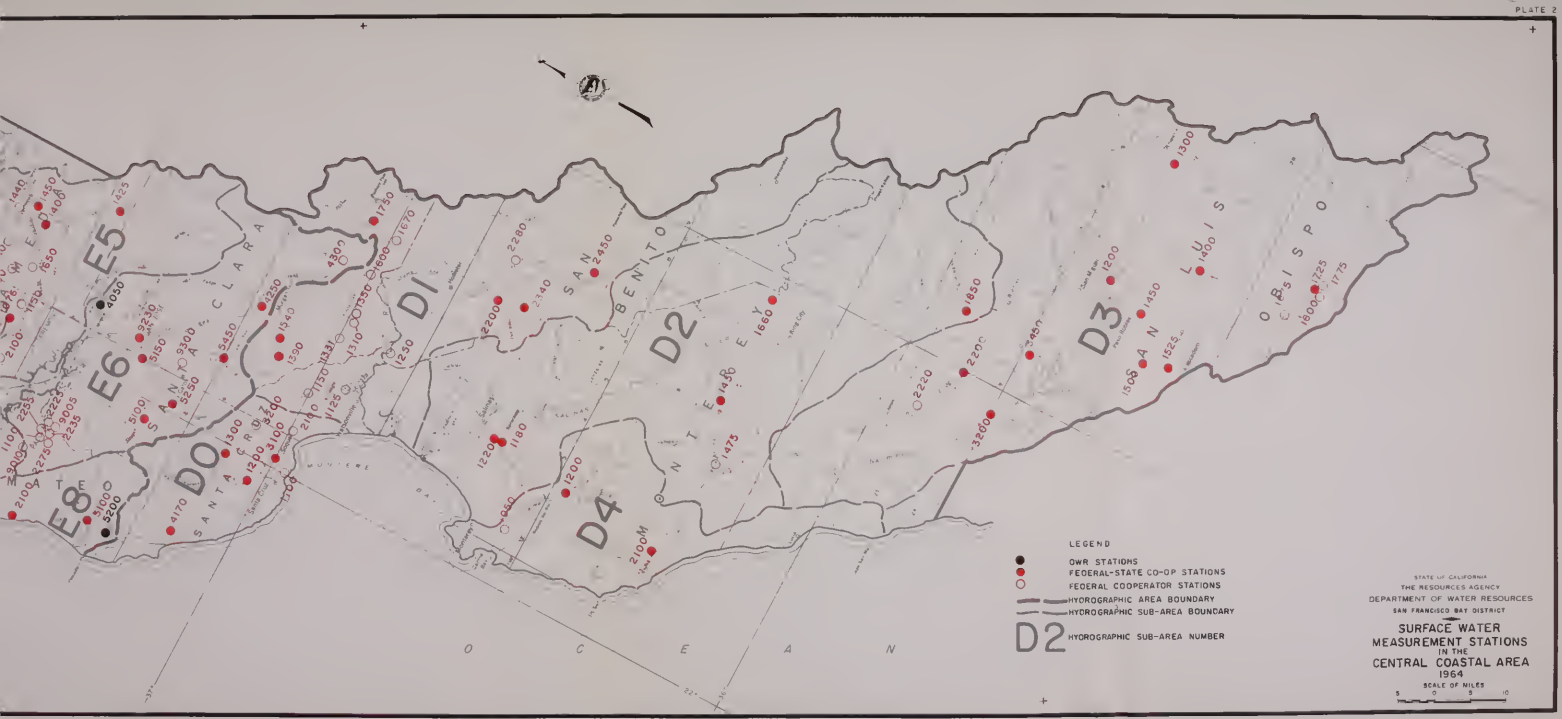
REDWOOD COAST (Dv. 29)

1650 Albion River nr Comptche
1100 Gualala River, So Fk nr Annapolis
2100 Navarro River nr Navarro
2500 Rancharia Creek nr. Boonesville
2740 Big River, So Fk nr Comptche
3100 Noyo River nr Fort Bragg
4700 Garcia River, Point Arena

RUSSIAN RIVER (Dv. 19)

1010 Austin Creek nr Cazadero
1100 Russian River nr Guerneville
1370 Santa Rosa Creek nr Santa Rosa
1250 Laguna de Santa Rosa nr Graton
1400 Russian River nr Healdsburg
1440 Dry Creek nr Geyserville
1490 Dry Creek nr Cloverdale
1370 Mazzoni Creek nr Talmage
1600 Big Sulphur Creek nr. Cloverdale
1830 Russian River nr Cloverdale
1790 Felta Creek nr Boyland
1745 Russian River nr Boyland
1950 Russian River nr Ukiah
1875 Russian River nr Redwood Valley
1910 Potter Valley P. H. Tail Race nr Potter V.
6101 Russian River, E Fork nr Ukiah
4700 Russian River, E Fork nr Calpella
9010 Walker Creek nr Tomales
4150 Salmon Creek at Bodega Bay





STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN FRANCISCO BAY DISTRICT

SURFACE WATER MEASUREMENT STATIONS IN THE CENTRAL COASTAL AREA 1964

SCALE OF MILES
5 0 5 10

GEND

ATER QUALITY CONTROL BOARD REGION NUMERAL

ATER QUALITY CONTROL BOARD REGION BOUNDARY

IRFACE WATER QUALITY SAMPLING STATION

NCENTRATION OF STATIONS ALONG THE
N LORENZO AND SALINAS RIVERS RESULTED
OM SPECIFIC INVESTIGATIONS

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN FRANCISCO BAY DISTRICT

SURFACE WATER QUALITY STATIONS IN THE CENTRAL COASTAL AREA 1964

SCALE OF MILES
5 0 5 10

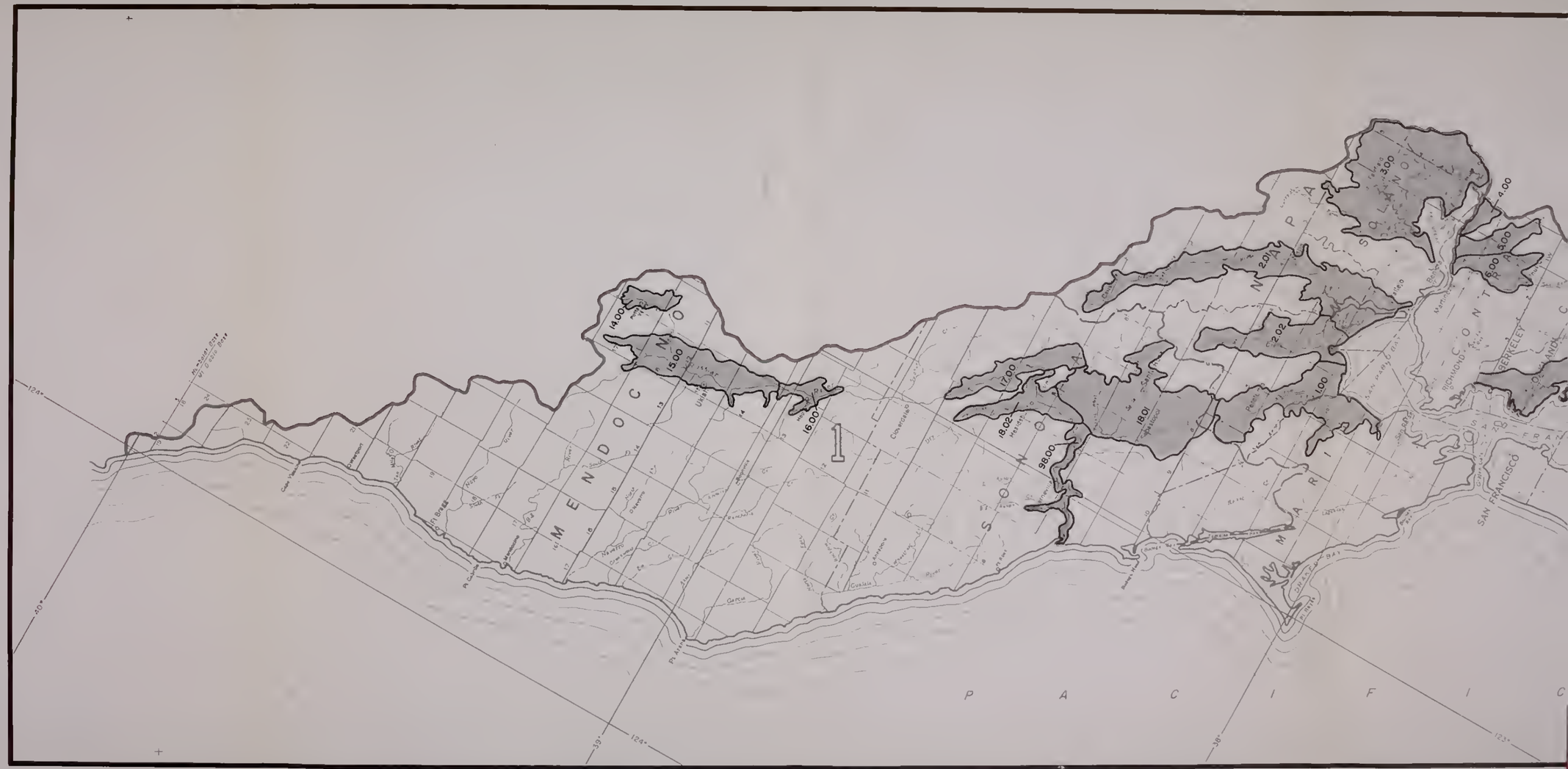

MENDOCINO
SONOMA
SAN MATEO
SANTA CRUZ
SAN BENITO
MONTEREY
SAN LUIS OBISPO
PACIFIC OCEAN
1
2
3
5
LEGEND
WATER QUALITY CONTROL BOARD REGION NUMERAL
WATER QUALITY CONTROL BOARD REGION BOUNDARY
200
BROAD WATER BASIN OR UNIT

GROUND WATER BASINS OR UNITS

IN THE

CENTRAL COASTAL AREA

NORTH COASTAL REGION (No. 1)		CENTRAL COASTAL REGION (No. 3)	
1-14.00	Potter Valley	3-1.00	Soquel Valley
1-15.00	Ukiah Valley	3-2.00	Pajaro Valley
1-16.00	Sanel Valley	3-3.00	Gilroy-Hollister Valley
1-17.00	Alexander Valley	3-3.01	South Santa Clara County
1-18.00	Santa Rosa Valley	3-3.02	San Benito County
1-18.01	Santa Rosa Area	3-4.00	Salinas Valley
1-18.02	Healdsburg Area	3-4.01	Pressure Area
1-98.00	Lower Russian River Valley	3-4.02	East Side Area
		3-4.03	Forebay Area
SAN FRANCISCO BAY REGION (No. 2)		3-4.04	Arroyo Seco Cone
2-1.00	Petaluma Valley	3-4.05	Upper Valley Area
2-2.00	Napa-Sonoma Valley	3-4.06	Paso Robles Basin
2-2.01	Napa Valley	3-4.08	Seaside Area
2-2.02	Sonoma Valley	3-4.09	Langley Area
2-3.00	Suisun-Fairfield Valley	3-4.10	Corral de Tierra Area
2-5.00	Clayton Valley	3-7.00	Carmel Valley
2-8.00	Ygnacio Valley	3-26.00	West Santa Cruz Terrace
2-9.00	Santa Clara Valley		
2-9.01	East Bay Area		
2-9.02	South Bay Area		
2-10.00	Livermore Valley		
2-22.00	Half Moon Bay Terrace		
2-24.00	San Gregorio Valley		
2-26.00	Pescadero Valley		




LEGEND
1
WATER QUALITY CONTROL BOARD REGION NUMERAL
WATER QUALITY CONTROL BOARD REGION BOUNDARY
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GROUND WATER BASIN OR UNIT
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN FRANCISCO BAY DISTRICT
GROUND WATER BASINS OR UNITS
IN THE
CENTRAL COASTAL AREA
1964
SCALE OF MILES
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SAN MATEO
SANTA CLARA
SANTA CRUZ
SAN BENITO
MONTEREY
SAN LUIS OBISPO
OCEAN
SAN FRANCISCO BAY
MONTEREY BAY
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9.02
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22.00
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26.00
28.00


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MENDOCINO
SONOMA
NAPA
SOLANO
CONTRA COSTA
ALAMEDA
SAN MATEO
SANTA CLARA
SANTA CRUZ
SAN BENITO
MONTEREY
SAN LUIS OBISPO
PACIFIC OCEAN
LEGEND
WATER QUALITY CONTROL BOARD REGION NUMERAL
WATER QUALITY CONTROL BOARD REGION BOUNDARY
SURFACE WATER QUALITY SAMPLING STATION
CONCENTRATION OF STATIONS ALONG THE SAN LORENZO AND SALINAS RIVERS RESULTED FROM SPECIFIC INVESTIGATIONS
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN FRANCISCO BAY DISTRICT
SURFACE WATER QUALITY STATIONS IN THE CENTRAL COASTAL AREA 1964
SCALE OF MILES

SURFACE WATER QUALITY STATIONS

NORTH COASTAL REGION (No. 1)

8a	Russian River near Hopland
8b	Navarro River near Navarro
8c	Big River near mouth
9	Russian River near Healdsburg
9a	Cualala River, South Fork, near Annapolis
10	Russian River at Guerneville
10a	Russian River, East Fork, at Potter Valley Power House
10c	Noyo River near Fort Bragg

SAN FRANCISCO BAY REGION (No. 2)

71	Arroyo Del Valle near Livermore
72	Napa River near St. Helena
73	Alameda Creek near Niles
74	Los Gatos Creek near Los Gatos
82	Coyote Creek near Madrone
201	Altamont Creek at Altamont Turnout of South Bay Aqueduct
214	Livermore Canal at Patterson Reservoir
216	Sacramento River at Collinsville
217	San Pablo Bay at Crockett
219	Carquinez Strait at Martinez
240	Suisun Bay at Pittsburg
241	Suisun Bay at Port Chicago
243	Spoonbill Creek
249	Butano Creek
250	Butano Creek
252	Denniston Creek
255	Suisun Bay at Middle Point
256	Pescadero Creek
257	Purisima Creek
258	Purisima Creek
265	San Gregorio Creek

CENTRAL COASTAL REGION (No. 3)

43	Salinas River near Spreckels
43a	Salinas River at Paso Robles
43b	Nacimiento River near San Miguel
43c	Salinas River near Bradley
43d	San Antonio River near Pleyto
75	San Lorenzo River at Big Trees near Felton
76	Soquel Creek at Soquel
77	Pajaro River near Chittenden
77a	San Benito River near Bear Valley Fire Station

CENTRAL COASTAL REGION (No. 3) Cont'd

83	Carmel River at Robles Del Rio
96	Uvas Creek near Morgan Hill
204	Bean Creek one mile east of Felton
203	Bear Creek at Boulder Creek
206	Bear Creek four miles northeast of Boulder Creek
208	Boulder Creek at Boulder Creek
209	Branciforte Creek near Santa Cruz
210	Clear Creek at Brookdale
211	Fall Creek one-half mile north of Felton
213	Kings Creek two miles north of Boulder Creek
215	Lompico Creek one mile north of Olympia
216	Love Creek at Ben Lomond
219	Newell Creek one mile northeast of Ben Lomond
226	San Lorenzo River at Big Trees
227	San Lorenzo River at Boulder Creek
228	San Lorenzo River six miles north of Boulder Creek
229	San Lorenzo River at Felton
230	San Lorenzo River at Santa Cruz
232	Two Bar Creek one mile north of Boulder Creek
233	Zayante Creek at Felton
234	Zayante Creek at Zayante
245	Alba Creek
246	Blanco Drain into Salinas River
247	Boulder Creek
248	Branciforte Creek
251	Carbonera Creek
253	Gazos Creek
254	Marshall Creek
259	Salinas River, mile 9.51
260	Salinas River, mile 7.13
261	Salinas River, mile 4.65
262	Salinas River, mile 3.30
263	Salinas River, mile 1.70
264	Salinas River, mile 0.00
266	Whitehouse Creek

CENTRAL VALLEY REGION (No. 5)

207	Bethany Forebay at South Bay Pumping Plant

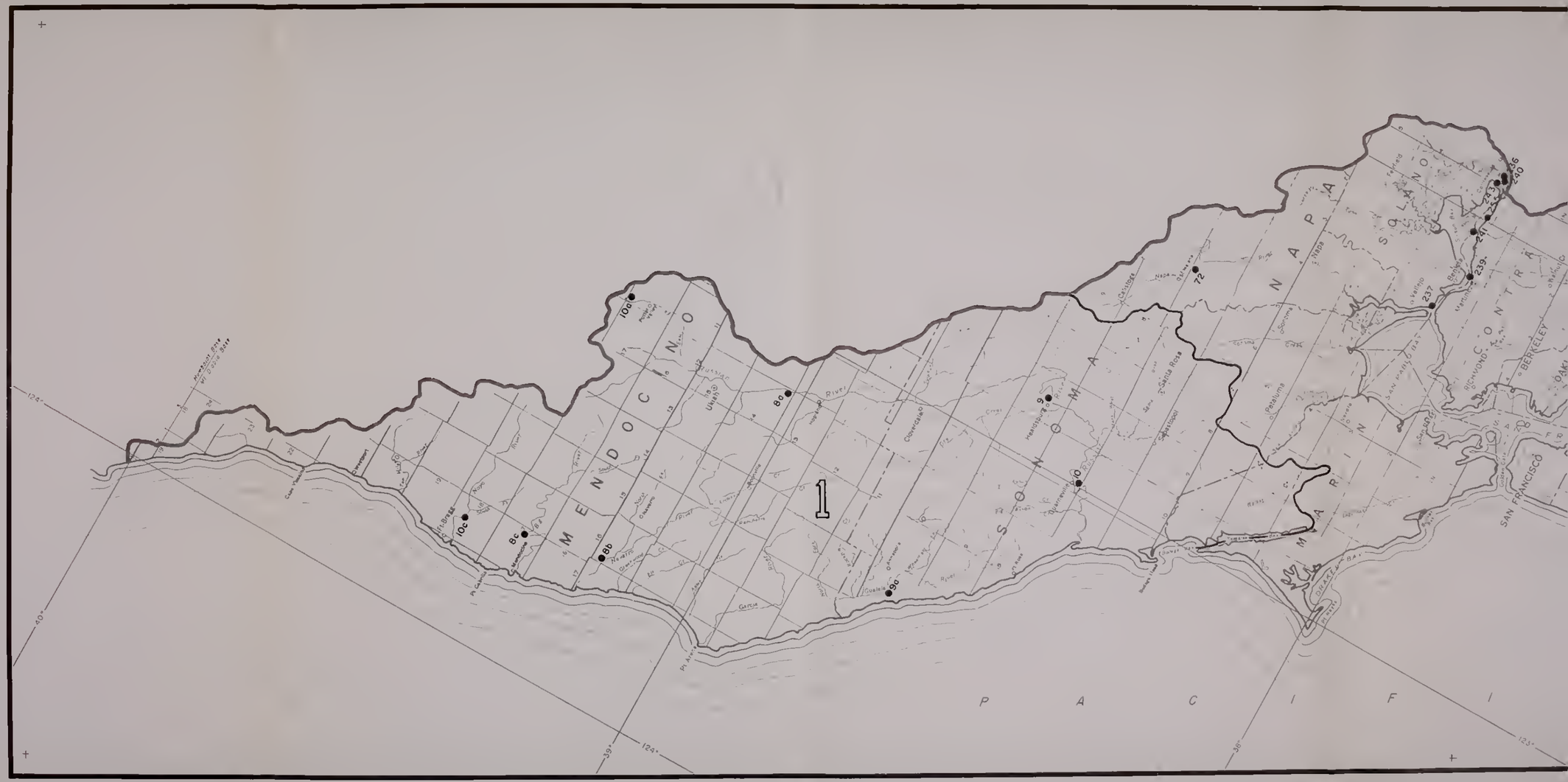
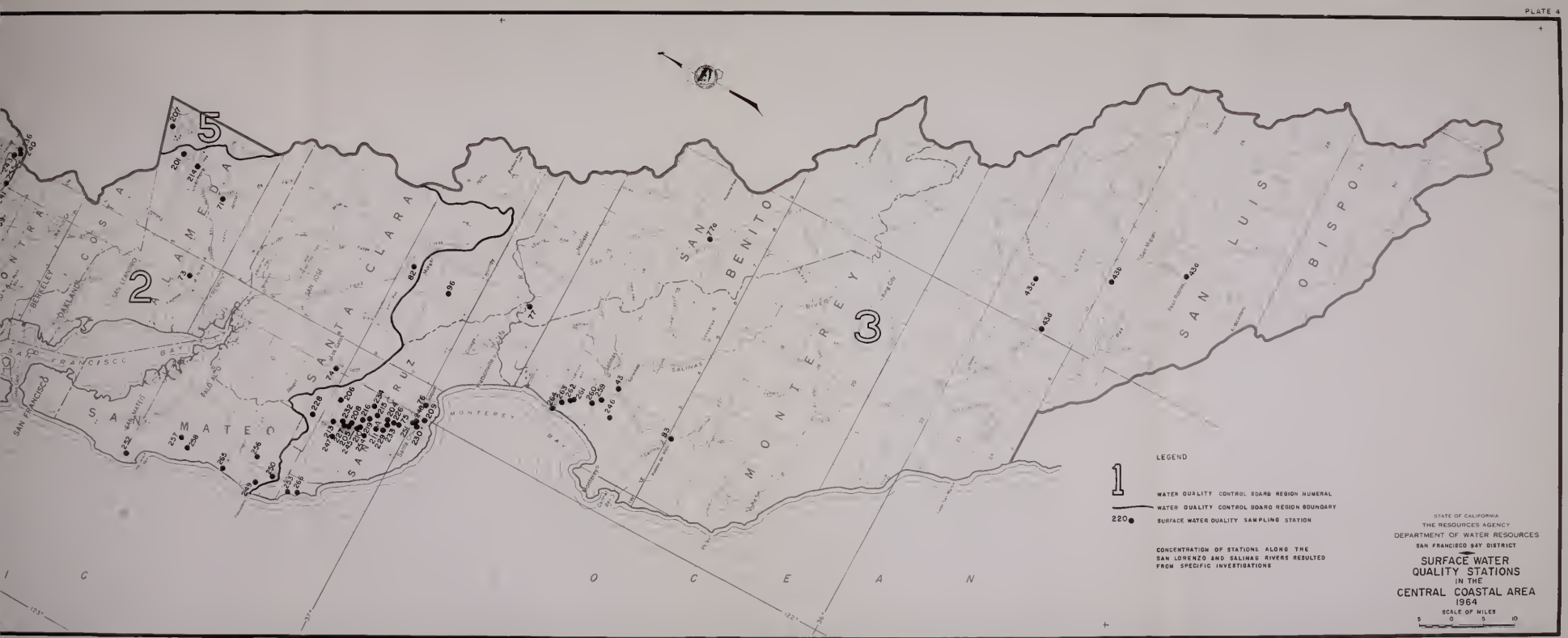


PLATE 4


5
2
3
CONTRA COSTA
ALAMEDA
SANTA CLARA
SAN MATEO
SANTA CRUZ
SAN BENITO
MONTEREY
SAN LUIS OBISPO
BERKELEY
OAKLAND
SAN LEANDRO
SAN JOSE
SAN FRANCISCO
SAN FRANCISCO BAY
SALINAS
MONTEREY BAY
PACIFIC OCEAN
LEGEND
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5 0 5 10


SAN FRANCISCO BAY
CONTRA COSTA CO.
ALAMEDA CO.
SAN MATEO CO.
SAN FRANCISCO CO.
OAKLAND
BERKELEY
ALAMEDA
SAN LEANDRO
HAYWARD
RICHMOND
LEGEND
MONITORED WELL
APPROXIMATE LIMIT OF MONITORED AREA
1964
1962
LINE OF 350 PARTS PER MILLION CHLORIDE CONCENTRATION
KEY TO LOCATION NUMBERS
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN FRANCISCO BAY DISTRICT
HYDROLOGIC DATA
CENTRAL COASTAL AREA
STATUS OF SEA-WATER INTRUSION
SANTA CLARA VALLEY
EAST BAY AREA
1964
SCALE OF MILES