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Director
Department of Water Resources

STATE OF CALIFORNIA
The Resources Agency

Department of Water Resources

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BULLETIN No. 130

HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES

Each Volume Contains

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

THIS VOLUME

FOREWORD

The hydrologic data programs of the Department of Water Resources supplement the data collection activities of other agencies and help satisfy needs of these agencies for data on the quality and quantity of water in the State. Bulletin No. 130-67 presents accurate, comprehensive, and timely hydrologic data which are prerequisites for effective planning, design, construction, and operation of water facilities.

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

This volume presents data on climate, surface water flow, ground water levels, and surface and ground water quality in the North Coastal Area.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
The Resources Agency
State of California
September 10, 1968

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

RONALD REAGAN, Governor
WILLIAM R. GIANELLI, Director, Department of Water Resources
JOHN R. TEERINK, Deputy Director

------ O ------

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Lee R. Gibson.	Water Quality	W. R. Technician II

Reviewed and coordinated by
Division of Resources Development
Program Formulation and Coordination Office
Water Resources Evaluation Branch

ABSTRACT

The report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the North Coastal Area during the 1966-67 water year. Figures show the location of climatological stations, surface water measurement stations, surface water sampling stations, and ground water basins.

ACKNOWLEDGMENTS

In the preparation of this report, valuable assistance and contributions were received from several public agencies and many private cooperators. The cooperation of the U. S. Weather Bureau and the U. S. Geological Survey was particularly helpful and is gratefully appreciated.

A special note of thanks is extended to the many loyal and dedicated weather observers whose unselfish efforts have contributed immeasurably to our knowledge of historical weather conditions in Northern California.

APPENDIX A

CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the North Coastal Area from July 1, 1966, to September 30, 1967. Storage gage data are reported as annual precipitation. Forty-two cooperating agencies and 76 local observers supplied the data.

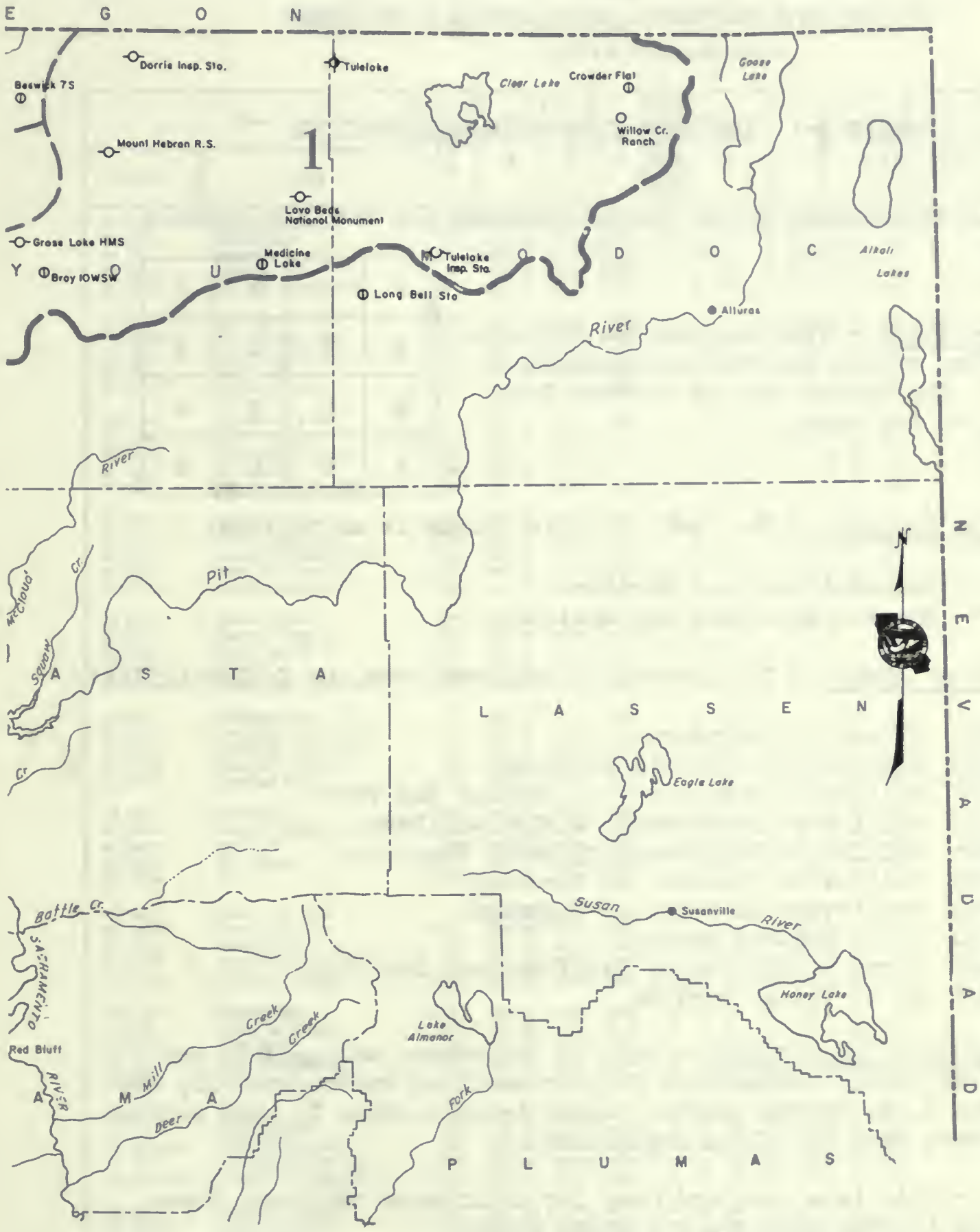
To insure accuracy, stations are normally inspected either semiannually or annually to see that the equipment is properly maintained and that observations are generally taken in accordance with U. S. Weather Bureau standards.

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

North Coastal Area

F0 - Smith River
F1 - Lost River-Butte Valley
F2 - Shasta-Scott Valleys
F3 - Klamath River
F4 - Trinity River
F5 - Mad River
F6 - Eel River
F7 - Mattole River

O R
Elk Valley
Hilts
Copco Dam No. 1
Smith River 2WNW
Idlewild HMS
Gasquet R.S.
Fort Dick
Smith River
Crescent City IN
Crescent City 7ENE
Crescent City IIE
Crescent City Maint. Sta.
Comp Six L.O.
DEL NORTE
Seiad Valley R.S.
Oak Knoll R.S.
Foothill School
Happy Camp R.S.
Clear Creek
Montague 3NE
Yreka
Montague
Little Shasta
Scott River
Fort Jones R.S.
Greenview
Fort Jones 6ESE
Big Springs 4E
Gazelle-Epperson
Gazelle-Tucker
Klamath
Etna
Gazelle Lookout
Weed F.D.
Blue Creek Mtn. L.O.
Somesbar Ukonom R.S.
Somesbar 1W
Orick Prairie Cr. Park
Orick 3NNE
Orick Arcata Redwood
Klamath
Orleans
Sawyers Bar R.S.
Callahan R.S.
Forks of Salmon
OCEAN
Big Lagoon
Patricks Point State Park
Little River
Mumbo Basin
Cecilville 5SE
Coffee Cr. R.S.
Trinity River
Hoopa
Hoopa 2SE
Arcata Airport
Honor Camp 42
Fieldbrook 4D Rch
Blue Lake-Redwood Cr.
Salyer R.S.
TRINITY RES.
Sacramento R.
PACIFIC
Blue Lake
Korbel
Sandy Brae
Eureka W.B. City
Burnt Ranch 1S
Burnt Ranch HMS
Trinity Dam Vista Point
Weaverville R.S.
Big Bar R.S.
Boardcamp Mtn.
Cleor Cr.
SHASTA LAKE
Kneeland 10SSE
Ferndale 2NW
Fortuna
Hyampom
Redding
Ferndale 8SSW
Bridgeville 4NNW
Hayfork R.S.
Van Duzen River
Scotia
Grizzly Cr. Redwood St. Pk.
Bridgeville P.O.
Mad River R.S.
Cow
Cape Ranch
Holmes
Hidden Valley Rch
Petralia 4NW
High Rack
Forest Glen
Middle Fork Cottonwood Cr.
Petralia
Fox Camp
Bull Cr.
Burlington State Park
Weott 2SE
Meyers Flat
Upper Mattole
Honeydew 2WSW
Honeydew-Hunter
Miranda-Spengler Rch
Phillipsville 1SE
Zenia 1SSE
Alderpoint
Miranda 4SE
South Fork
Garberville HMS
Garberville
Old Harris
Shelter Cove
Richardson Grove St. Pk.
Whitethorn
Hartsook Inn
Lake Mtn
Mina 3NW
Harris 7SSE
Adanac Lodge
Standish
Hickey State Park
Thomes Creek
Cummings
Covelo
Eel River R.S.
Covelo
Das Rios
Middle Fork
Plaskett
Black Butte Res.
Stony Cr.
Branscomb 2NW
Laytonville
Sherwood Valley
Noyo River
Willits-N.W.Pac. R.R.
Willits 1NE
Lake Pillsbury No. 2
Willits-Howard Forest R.S.
Ukiah
L A K E
INDEX TO HYDROGRAPHIC UNITS
0 SMITH RIVER
1 LOST RIVER - BUTTE VALLEY
2 SHASTA - SCOTT VALLEYS
3 KLAMATH RIVER
4 TRINITY RIVER
5 MAD RIVER
6 EEL RIVER
7 MATTOLE RIVER
NOTE: FOR STATION DATA SEE TABLE A-1



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DEPARTMENT OF WATER RESOURCES
NORTHERN DISTRICT

CLIMATOLOGICAL OBSERVATION STATIONS
1966 - 1967

SCALE OF MILES
8 0 8 16 24

TABLE A-1 INDEX OF CLIMATOLOGICAL STATIONS

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

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

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

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

H - Humboldt Base and Meridian
M - Mount Diablo Base and Meridian

Cooperator Number - This number is assigned from the following list:

000 Private Cooperators
006 Northwestern Pacific Railroad
804 California Department of Beaches and Parks
805 California Department of Fish and Game
806 California Department of Water Resources
808 California Division of Forestry
809 California Division of Highways
900 U. S. Weather Bureau
901 Corps of Engineers, San Francisco District
905 U. S. Forest Service

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

County - This is a standard code for California counties; those counties used in this appendix are shown below

County	
Del Norte	08
Glenn	11
Humboldt	12
Lake	17
Mendocino	23
Modoc	25
Siskiyou	47
Trinity	53

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS FOR 1966-67

NORTH COASTAL AREA

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
F6 0018	ADANAC LODGE	1100	SEC 14	T23N	R17W	H	M	39	50	48	123	42	00	000		1950			23
F6 0088	ALDERPOINT	435	SEC 27	T03S	R05E		H	40	11	00	123	36	00	900		1940			12
F5 0253	ARCATA A P	217	SEC 19	T07N	R01E	Q	H	40	58	18	124	05	24	000		1957			12
F3 0715	BESWICK 7 S	6140	SEC 33	T47N	R03W		M	41	52	00	122	14	00	900		1952			47
F4 0738	BIG BAR RANGER STA	1270	SEC 05	T33N	R12W		M	40	44	54	123	14	42	900		1943			53
F5 0764	BIG LAGOON	100	SEC 18	T09N	R01E	R	H	41	09	36	124	05	54	000	PN2125	1947			12
F2 0786-01	BIG SPRINGS 4E	2955	SEC 05	T43N	R04W	R	M	41	35	30	122	19	42	000		1960			47
F3 0899	BLUE CREEK MTN LO	4870	SEC 30	T12N	R04E	R	H	41	23	42	123	45	54	900		1960			08
F5 0901	BLUE LAKE	105	SEC 30	T06N	R02E	A	H	40	52	54	123	59	12	000		1951			12
F4 0929	BOARDCAMP MTN	4500	SEC 26	T04N	R04E		H	40	42	12	123	42	00	000		1963			12
F6 1046	BRANSCOMB 2 NW	1480	SEC 09	T21N	R16W	M	M	39	41	12	123	39	36	900		1959			23
F1 1050	BRAY 10 WSW	5759	SEC 24	T43N	R03W		M	41	34	00	122	08	00	900		1951			47
F6 1080	BRIDGEVILLE 4 NNW	2050	SEC 27	T02N	R03E		H	40	31	00	123	49	00	900		1954			12
F6 1181	BULL CREEK	410	SEC 36	T01S	R01E	H	H	40	21	00	124	06	30	000		1960			12
F6 1210	BURLINGTON ST PARK	200	SEC 12	T02S	R02E	D	H	40	18	30	123	54	24	000		1950			12
F4 1215	BURNT RANCH 1 S	2150	SEC 23	T05N	R06E	E	H	40	47	48	123	28	48	900		1945			53
F4 1215-15	BURNT RANCH HMS	1500	SEC 14	T05N	R06E	F	H	40	48	30	123	28	30	000		1963			53
F2 1316	CALLAHAN RANGER STA	3136	SEC 21	T40N	R08W		M	41	18	00	122	48	00	900		1943			47
F0 1446	CAMP SIX LOOKOUT	3700	SEC 31	T17N	R03E	B	M	41	49	48	123	52	24	000		1963			08
F3 1606	CECILVILLE 5SE	2980	SEC 12	T37N	R11W		M	41	06	00	123	03	00	900		1954			47
F3 1799	CLEAR CREEK	975	SEC 07	T15N	R07E	H	H	41	42	30	123	26	54	900		1959			47
F4 1886	COFFEE CREEK RS	2500	SEC 06	T37N	R07W		M	41	05		122	42		900		1960			53
F3 1990	COPCO DAM NO 1	2700	SEC 29	T48N	R04W	P	M	41	59	00	122	20	00	900		1928			47
F6 2081	COVELO	1385	SEC 12	T22N	R13W		M	39	47	00	123	15	00	900		1921			23
F6 2084	COVELO EEL RIVER RS	1514	SEC 28	T23N	R11W		M	39	50	00	123	05	00	900		1940			23
F0 2147	CRESCENT CITY 1 N	40	SEC 20	T16N	R01W		H	41	46	00	124	12	00	900		1885			08
F0 2148	CRESCENT CITY 7 ENE	120	SEC 08	T16N	R01E		H	41	48	00	124	05	00	900		1913			08
F0 2150	CRESCENT CITY HMS	50	SEC 20	T16N	R01W		H	41	46	00	124	12	00	900		1941			08
F0 2152	CRESCENT CITY 11E	360	SEC 30	T16N	R02E	B	H	41	45	18	123	59	30	000		1947			08
F1 2188	CROWDER FLAT	5175	SEC 20	T47N	R11E	K	M	41	53	00	120	44	00	000	PN2188	1958			25
F6 2218	CUMMINGS	1270	SEC 21	T23N	R16W		M	39	50	00	123	38	00	900		1927			23
F1 2480	DORRIS INSPECT STA	4240	SEC 36	T48N	R01W	R	M	41	57	18	121	54	30	000		1959			47
F6 2490	DOS RIOS	927	SEC 31	T22N	R13W		M	39	43	00	123	21	00	900		1917			23
F0 2749	ELK VALLEY	1711	SEC 34	T19N	R04E		H	42	00	00	123	43	00	900		1938			08
F2 2899	ETNA	2912	SEC 28	T42N	R09W		M	41	28	00	122	54	00	900		1935			47
F6 2910	EUREKA WB CITY	43	SEC 22	T05N	R01W		H	40	48		124	10		900		1878			12
F7 3025	FERNDALE 8 SSW	1445	SEC 06	T01N	R02W	P	H	40	29	30	124	20	24	900		1959			12
F6 3030	FERNDALE 2NW	10	SEC 34	T03N	R02W	K	H	40	35	54	124	16	36	900		1963			12
F5 3041	FIELDBROOK 4 D RCH	285	SEC 36	T07N	R01E	P	H	40	56	36	124	01	06	000		1956			12
F3 3122	FOOTHILL SCHOOL	2960	SEC 25	T46N	R05W	F	M	41	48	42	122	22	18	000		1962			47
F4 3130	FOREST GLEN	2340	SEC 22	T01S	R08E		H	40	23	00	123	20	00	900		1930			53
F3 3151	FORKS OF SALMON	1270	SEC 24	T10N	R07E	A	H	41	15	12	123	19	00	900		1959			47
F0 3173	FORT DICK	46	SEC 14	T17N	R01W		H	41	52	00	124	09	00	900		1951			
F2 3176	FORT JONES 6 ESE	3324	SEC 12	T43N	R08W		M	41	35	00	122	43	00	900		1941			47
F2 3182	FORT JONES RANGER STA	2720	SEC 02	T43N	R09W	C	M	41	36	00	122	51	00	900		1936			47
F6 3194	FORTUNA	60	SEC 35	T03N	R01W	Q	H	40	36	00	124	09	00	000		1955			12
F6 3320	GARBERVILLE	340	SEC 24	T04S	R03E		H	40	06	00	123	48	00	900		1938			12
F6 3322-01	GARBERVILLE HMS	540	SEC 24	T04S	R03E	G	H	40	06	00	123	47	40	809		1935			12
F0 3357	GASQUET RANGER STA	384	SEC 21	T17N	R02E	N	H	41	52	00	123	58	00	900		1940			08
F2 3361-03	GAZELLE - EPPERSON	2760	SEC 17	T43N	R06W	J	M	41	34	18	122	33	12	000		1950			47
F2 3363	GAZELLE LOOKOUT	5200	SEC 08	T41N	R07W	J	M	41	24	30	122	40	30	000		1956			47
F2 3363-05	GAZELLE TUCKER	2690	SEC 16	T43N	R06W		M	41	34	30	122	32	36	000		1964			47
F1 3564	GRASS LAKE HMS	5080	SEC 28	T44N	R03W	G	M	41	37	48	122	11	30	900		1954			47
F2 3614	GREENVIEW	2818	SEC 29	T43N	R09W		M	41	33	00	122	54	00	900		1943			47
F6 3647	GRIZZLY CRK REDWOOD	500	SEC 11	T01N	R02E		H	40	29	00	123	47	00	900		1963			12
F3 3761	HAPPY CAMP RANGER STA	1090	SEC 11	T16N	R07E		H	41	48	00	123	23	00	900		1914			47
F6 3785	HARRIS 7 SSE	1910	SEC 27	T05S	R05E	N	H	39	59	24	123	36	42	000		1953			23
F6 3810	HARTSOOK 1NN	470	SEC 24	T05S	R03E	D	H	40	00	48	123	47	30	000		1957			12
F4 3859	HAYFORK RANGER STA	2340	SEC 12	T31N	R12W	R	M	40	33	00	123	10	00	900		1915			53
F4 3949	HIDDEN VALLEY RCH	1978	SEC 32	T01N	R07E	M	H	40	24	54	123	24	30	000		1959			53
F6 3956	HIGH ROCK	900	SEC 15	T01S	R02E	K	H	40	22	48	123	56	30	808		1960			12
F3 3987	HILTS	2900	SEC 23	T48N	R07W		M	42	00	00	122	38	00	900		1939			47
F6 4037-02	HOLMES	150	SEC 33	T01N	R02E	R	H	40	25	06	123	57	06	000		1954			12
F7 4074	HONEYDEW 2 WSW	380	SEC 02	T03S	R01W	C	H	40	14	18	124	09	00	900		1953			12
F7 4074-01	HONEYDEW HUNTER	380	SEC 02	T03S	R01W	M	H	40	14	18	124	09	06	000		1955			12
F5 4077	HONOR CAMP 42	1875	SEC 31	T07N	R03E	K	H	40	56	48	123	52	42	000		1956			12
F4 4082	HOOPA	350	SEC 25	T08N	R04E		H	41	03	00	123	40	00	900		1941			12
F4 4084	HOOPA 2SE	315	SEC 31	T08N	R05E		H	41	02	00	123	39	00	900		1954			12
F4 4191	HYAMPOM	1260	SEC 25	T03N	R06E		H	40	37	00	123	28	00	900		1940			53
F0 4202	IDLEWILD HMS	1250	SEC 06	T17N	R04E	D	H	41	54	00	123	46	12	900		1946			08

TABLE A-1 (Continued)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1966-67

NORTH COASTAL AREA

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
F3 4577	KLAMATH	25	SEC 15	T13N	R01E		H	41	31	00	124	02	00	900		1941			08
F6 4587	KNEELAND 10 SSE	2356	SEC 13	T03N	R02E		H	40	38	00	123	54	00	900		1954			12
F5 4602	KORBEL	150	SEC 28	T06N	R02E	P	H	40	52	00	123	57	30	900		1937			12
F6 4690	LAKE MOUNTAIN		SEC 21	T05S	R07E		H	40	01	00	123	24	00	900		1939			53
F6 4698	LAKE PILLSBURY NO 2	1740	SEC 10	T18N	R10W		M	39	25		122	59		900		1964			17
F1 4838	LAVA BEDS NAT MON	4770	SEC 28	T45N	R04E	H	M	41	43	48	121	30	30	900		1940		06	47
F6 4851	LAYTONVILLE	1640	SEC 01	T21N	R15W		M	39	42	00	123	29	00	900		1940			23
F5 4982	LITTLE RIVER	150	SEC 31	T08N	R01E	P	H	41	01	54	124	06	36	000		1949			12
F2 4984-02	LITTLE SHASTA	2725	SEC 26	T45N	R05W	C	M	41	43	00	122	23	00	000		1960			47
F1 5081-01	LONG BELL STATION	4375	SEC 20	T42N	R05E	B	M	41	28	00	121	25	00	000		1958			25
F5 5244	MAD RIVER RANGER STA	2775	SEC 17	T01N	R06E		H	40	27	00	123	32	00	900		1943			53
F1 5505	MEDICINE LAKE	6660	SEC 10	T43N	R03E		M	41	35	00	121	37	00	900		1946			47
F6 5676	MINA 3 NW	2875	SEC 28	T05S	R07E	A	H	40	00	06	123	23	30	000		1927			53
F6 5711	MIRANDA 4 SE	263	SEC 30	T03S	R04E		H	40	11	00	123	47	00	900		1964			12
F6 5713	MIRANDA SPENGLER RCH	400	SEC 19	T03S	R04E		H	40	12	00	123	46	00	900		1939			12
F2 5783	MONTAGUE	2500	SEC 27	T45N	R06W	Q	M	41	43	42	122	31	36	000	045783	1888		05	47
F2 5785	MONTAGUE 3 NE	2640	SEC 18	T45N	R05W		M	41	45	00	122	28	00	900		1948			47
F1 5941	MOUNT HEBRON R S	4250	SEC 32	T46N	R01W		M	41	47	00	122	00	00	900		1942			47
F4 6032	MUMBO BASIN	5700	SEC 35	T39N	R06W	E	M	41	12	00	122	32	00	900		1946			53
F6 6050	MYERS FLAT	190	SEC 30	T02S	R03E		H	40	15	40	123	52	00	000		1950			12
F3 6328	OAK KNOLL RANGER STA	1963	SEC 12	T46N	R09W		M	41	50	00	122	51	00	900		1942			47
F6 6408	OLD HARRIS	2225	SEC 30	T04S	R05E	G	H	40	05	00	123	39	42	000		1956			12
F5 6497-01	ORICK 3 NNE	50	SEC 22	T11N	R01E	K	H	41	19	24	124	02	30	000		1950			12
F5 6497-02	ORICK ARCATA REDWOOD	75	SEC 22	T11N	R01E	K	H	41	19	24	124	02	36	000		1954			12
F5 6498	ORICK PRAIRIE CREEK	161	SEC 02	T11N	R01E		H	41	22	00	124	01	00	900		1937			12
F3 6508	ORLEANS	403	SEC 31	T11N	R06E		H	41	18	00	123	32	00	900		1885			12
F5 6745	PATRICKS PT ST PK	250	SEC 26	T09N	R01W	L	H	41	08	12	124	00	09	804		1947			12
F7 6835-01	PETROLIA	175	SEC 03	T02S	R02W	L	H	40	19	30	124	16	48	000		1958			12
F7 6835-02	PETROLIA 4 NW	900	SEC 19	T01S	R02W	D	H	40	22	24	124	18	30	000		1953			12
F6 6851-15	PHILLIPSVILLE 1SE	300	SEC 19	T03S	R04E	B	M	40	11	42	123	46	00	000		1963			12
F6 6976	PLASKETT	6580	SEC 27	T22N	R09W	A	M	39	44	12	122	51	24	000		1960			11
F6 7404	RICHARDSON GROVE	500	SEC 13	T05S	R03E		H	40	02		123	47		900		1961			12
F4 7698	SALYER RANGER STA	623	SEC 14	T06N	R05E		H	40	53	00	123	35	00	900		1931			53
F3 8025	SAWYERS BAR R S	2169	SEC 20	T40N	R11W		M	41	18	00	123	08	00	900		1931			47
F6 8045	SCOTIA	139	SEC 07	T01N	R01E		H	40	29	00	124	06	00	900		1926			12
F3 8083-01	SEIAD VALLEY R S	1371	SEC 11	T46N	R12W	R	M	41	50	36	123	11	42	905		1953			47
F7 8162	SHELTER COVE	55	SEC 16	T05S	R01E		H	40	02		124	04		900		1959			12
F6 8163	SHERWOOD VALLEY	2170	SEC 32	T20N	R14W	F	M	39	32	36	123	26	30	901		1958			23
F0 8311-01	SMITH RIVER 2 WNW	195	SEC 21	T18N	R01W	A	H	41	56	30	124	10	42	000		1951			08
F3 8346	SOMESBAR 1W	520	SEC 04	T11N	R06E		H	41	23	00	123	29	00	900		1954			12
F3 8346-05	SOMESBAR UKONOM R S	727	SEC 33	T12N	R06E		H	41	23	00	123	28	00	905	PN8919	1965			12
F6 8490	STANDISH HICKEY PARK	850	SEC 03	T23N	R17W	F	M	39	52	30	123	43	30	900		1949			23
F6 8668	SUNNY BRAE	70	SEC 33	T06N	R01E		H	40	52	00	124	04	00	000		1965			12
F4 9024	TRINITY DAM VISTA PT	2500	SEC 16	T34N	R08W		M	40	48	00	122	46	00	900		1959			53
F1 9053	TULELAKE	4035	SEC 06	T47N	R05E		M	41	58	00	121	28	00	900		1932			47
F1 9057	TULELAKE INSP STA	4408	SEC 31	T44N	R07E	F	M	41	36		121	12		000	049057	1953			25
F7 9177	UPPER MATTOLE	255	SEC 33	T02S	R01W		H	40	15	00	124	11	00	900		1886			12
F4 9490	WEAVERVILLE RANGER S	2050	SEC 12	T33N	R10W		M	40	44	00	122	56	00	900		1869			53
F2 9499	WEED FD	3593	SEC 01	T41N	R05W	M	M	41	26	00	122	23	00	900		1957			47
F6 9527	WEOTT 2SE	600	SEC 12	T02S	R02E	H	H	40	18	29	123	53	40	000		1961			12
F7 9654	WHITETHORN	1050	SEC 15	T05S	R02E	E	M	40	01	18	123	56	12	000		1962			12
F6 9684	WILLITS 1 NE	1350	SEC 17	T18N	R13W		M	39	25	00	123	21		900		1950			23
F6 9685	WILLITS HOWARD RS	1925	SEC 05	T17N	R13W		M	39	21	00	123	19	00	900		1935			23
F6 9686	WILLITS NW PAC RR	1365	SEC 18	T18N	R13W	L	M	39	24	12	123	21	06	006		1911		05	23
F1 9691-02	WILLOW CREEK RANCH	5200	SEC 06	T46N	R11E	G	M	41	50		120	45		900	PN 9692	1960			25
F2 9866	YREKA	2631	SEC 27	T45N	R07W		M	41	43	00	122	38	00	900		1871			47
F6 9940	ZENIA 1 SSE	2880	SEC 22	T03S	R06E	G	H	40	11	18	123	28	54	000		1950			53

TABLE A-2
PRECIPITATION DATA
NORTH COASTAL AREA

Station Name	Precipitation in Inches																
	Total July 1 To June 30	1966						1967									Total Oct. 1 To Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
NORTH COASTAL AREA																	
SMITH RIVER																	
CRESCENT CITY 1N	72.28	.55	.63	3.66	1.59	17.48	9.55	13.78	3.13	11.52	7.71	2.49	.19	.00	.01	1.61	69.06
CRESCENT CITY 7ENE	92.72	.56	.66	3.32	3.45	21.55	13.53	19.08	3.79	14.35	9.19	2.94	.30	.00	.00	1.30	89.48
CRESCENT CITY HMS	---	.46	.45	3.59	1.49	17.92	9.01	13.77	3.10	11.74	7.29	---	---	.00	.00	---	---
CRESCENT CITY 11E	96.98	.00	.53	2.49	4.10	21.71	11.71	23.02	3.73	15.48	10.72	3.41	.08	.00	.00	1.19	95.15
ELK VALLEY	81.64	.34	.21	1.93	2.33	15.84	16.70	21.12	2.73	11.21	6.55	2.03	.65	.00	.00	.84	80.00
FORT DICK	89.03	.43	.75	3.95	2.64	21.40	11.26	16.57	3.66	14.24	11.20	2.76	.17	.00	T	1.64	85.54
GASQUET RANGER STA	97.44	.40	.73	2.42	3.55	22.25	16.80	20.58	3.19	14.83	9.50	3.03	.16	.00	.03	1.06	94.98
IDLEWILD HMS	82.19	.30	.31	1.94	2.48	18.29	14.95	19.47	2.72	11.71	6.82	2.85	.35	---	.00	1.41	---
SMITH RIVER 2WNW	82.09	.36	.62	4.48	3.54	18.29	10.43	15.70	4.21	10.63	10.11	3.57	.15	.00	T	1.64	78.27
LOST RIVER-BUTTE VAL																	
DORRIS INSPECT STA	18.94	.17	1.78	.34	.71	3.36	3.36	1.93	.34	1.78	1.73	1.42	2.02	.11	T	.15	16.91
GRASS LAKE HMS	---	---	---	---	---	---	---	---	---	---	---	---	1.64	T	T	.23	---
LAVA BEDS NAT MON	20.05	.18	.57	.40	.15	6.49	2.01	1.43	.32	3.24	2.49	1.68	1.09	.09	.03	.10	19.12
MOUNT HEBRON R S	---	.11	.93	.55	.18	3.54	---	1.53	.13	2.99	1.93	1.37	1.99	.01	.00	.16	---
TULELAKE	13.45	.21	.51	.35	.16	3.74	1.49	1.12	.17	1.37	1.93	.97	1.43	.03	.00	.02	12.43
TULELAKE INSPECT STA	13.88	.13	.09	.20	.09	3.91	1.90	1.70	.11	1.86	2.75	.61	.53	.00	T	T	13.46
SHASTA-SCOTT VALLEYS																	
BIG SPRINGS 4E	8.97	.03	.00	.45	.00	2.73	2.14	.24	.18	1.26	1.94	.00	.00	.00	.00	.00	8.49
CALLAHAN RANGER STA	20.97	T	.21	1.08	.05	4.79	3.89	3.72	.15	3.03	2.40	.51	1.14	.09	.09	.21	20.07
ETNA	22.00	.00	.04	1.01	.25	3.48	5.70	6.93	.20	2.36	1.25	.22	.56	.02	.03	.15	21.15
FORT JONES 6ESE	22.71	.81	.12	.94	.07	3.35	4.46	4.63	.20	2.87	2.07	.48	2.71	.05	.04	.19	21.12
FORT JONES R S	24.88	.13	.03	1.59	.20	3.73	5.11	6.27	.21	2.77	1.60	.02	3.22	.35	.33	.17	23.98
GAZELLE EPPERSON	---	.42	.18	1.12	.08	2.93	1.98	1.99	.14	1.45	---	---	---	---	---	---	---
GAZELLE TUCKER	12.37	.05	.05	.90	.00	2.58	2.42	1.72	.05	1.37	1.60	.93	.70	---	---	---	---
GREENVIEW	20.14	.06	.03	.84	.04	2.97	5.07	6.23	.04	1.32	1.55	.03	1.96	.00	.00	.08	19.29
LITTLE SHASTA	15.76	1.00	.30	.60	.08	3.23	2.55	1.41	.10	2.13	1.91	1.70	.75	.00	.00	.35	14.21
MONTAGUE	15.33	.14	.21	.83	.18	2.80	3.15	2.65	.12	1.08	.64	.81	2.72	.00	.00	.22	14.37
MONTAGUE 3NE	---	.12	.40	1.00	---	---	---	---	---	---	---	---	2.14	.00	.00	.23	---
WEED FIRE DEPT	26.70	.13	.10	.73	T	6.85	5.26	3.63	.36	4.17	3.42	.83	1.22	.00	.03	.45	26.22
YREKA	19.54	.17	.21	1.08	.16	2.93	4.53	4.62	.18	1.82	1.63	.50	1.71	.04	T	.40	18.52
KLAMATH RIVER																	
CECILVILLE 5SE	32.63	.14	.26	1.27	.38	7.48	6.88	7.79	.26	4.30	2.89	.68	.30	.07	.43	.25	31.71
CLEAR CREEK	65.26	.05	.16	1.22	1.08	17.15	12.91	18.02	1.73	8.19	3.64	.72	.39	.00	.00	.53	64.36
COPCO DAM NO 1	21.81	.09	.65	.50	.26	4.02	4.35	3.68	.47	2.70	2.20	1.88	1.01	T	.00	.27	20.84
FOOTHILL SCHOOL	19.62	.46	.71	.63	.12	3.11	4.19	2.36	.18	1.99	2.35	1.82	1.70	.00	.00	.27	18.09
FORKS OF SALMON	45.77	.00	.46	.81	.65	9.05	10.32	11.41	.79	7.00	4.19	.69	.40	.00	.90	.34	45.74
HAPPY CAMP R S	59.44	T	.07	1.24	1.03	14.70	13.26	15.45	1.22	7.59	3.61	.79	.48	.00	.02	.42	58.57
HILTS	20.37	.22	.09	.13	.32	3.96	3.85	5.84	.48	2.17	1.59	.50	1.22	.00	.04	.38	20.35
KLAMATH	81.47	.78	.71	2.39	2.34	16.01	14.33	17.24	2.65	12.03	9.36	3.43	.20	.00	.00	1.26	78.85
OAK KNOLL R S	---	.20	.25	---	.41	5.16	4.89	7.44	1.06	2.80	2.80	.39	.81	---	.11	.43	---
ORLEANS	50.08	.00	.36	.89	1.06	9.97	10.50	12.37	.99	7.45	4.77	1.60	.12	.00	.00	.47	49.30
SAWYERS BAR R S	37.28	.00	.19	.90	.79	8.11	8.71	9.38	.52	4.68	2.79	.76	.45	.00	.07	.38	36.64
SEIAD VALLEY R S	46.17	.18	.04	.97	1.22	9.72	10.31	12.83	1.41	5.65	2.60	.71	.53	.00	.02	.25	45.25
SOMESBAR 1W	---	.00	.39	.93	1.15	11.50	12.00	16.15	1.40	8.83	5.87	1.86	---	.00	.03	.37	---
SOMESBAR-UKONOM R S	64.50	.05	.28	1.07	1.24	13.91	12.91	16.32	1.47	9.04	5.90	1.83	.48	.00	.06	.39	63.55
TRINITY RIVER																	
BIG BAR RANGER STA	37.42	.04	.16	.35	.29	7.97	8.92	10.49	.68	5.32	2.38	.44	.38	.00	.58	.20	37.65
BURNT RANCH 1S	44.69	.53	.25	.66	.60	10.00	9.42	11.07	.76	6.67	3.60	1.00	.13	.00	.04	.43	43.72
BURNT RANCH HMS	44.04	.60	.04	1.00	.70	8.41	9.90	11.24	.71	6.55	3.66	.97	.26	.00	.00	.38	42.78
COFFEE CREEK R S	69.16	.17	.05	.64	.00	18.80	11.70	15.60	.90	11.50	8.00	.70	1.10	.60	.60	.10	69.60
FOREST GLEN	70.13	.25	.24	.73	.15	17.32	13.44	18.99	.82	10.79	5.88	.91	.61	.00	T	.29	69.20
HAYFORK RANGER STA	34.06	.40	.15	.37	.08	8.14	7.51	9.40	.16	4.83	1.97	.32	.73	.00	.22	.20	33.56
HIDDEN VALLEY RCH	58.53	.26	.23	.71	.33	13.38	12.04	13.09	.67	10.04	6.46	.94	.38	.00	.00	.29	57.62
HOOPA	56.95	.35	.32	1.39	.76	9.77	12.87	14.26	1.12	9.05	5.58	1.37	.11	.00	.00	.45	55.34
HOOPA 2SE	---	.45	.20	2.11	.54	9.28	12.19	15.91	1.06	8.94	5.95	1.52	---	.00	T	.44	---
HYAMPOM	---	1.33	.23	.55	.12	8.74	8.62	11.93	.58	6.51	---	.59	.26	.05	.05	.20	---
SALYER RANGER STA	43.90	.51	.00	.80	.45	7.90	9.39	12.55	.88	6.44	4.06	.78	.14	.00	.03	.47	43.09
TRINITY DAM VISTA PT	37.31	.00	.12	.48	.00	8.78	6.71	9.44	.38	4.73	5.27	.55	.85	.08	.15	.18	37.12
WEAVERVILLE R S	39.70	T	.10	.34	.07	8.86	8.65	11.00	.45	4.39	4.37	.38	1.09	.40	.43	.22	40.31
MAD RIVER																	
ARCATA AIRPORT	52.46	.46	.50	1.68	1.16	10.96	8.78	10.78	1.57	7.79	6.37	2.02	.39	.01	.05	.89	50.77
BIG LAGOON	67.08	.48	.51	2.92	1.42	13.74	10.35	14.49	1.74	10.58	7.35	3.12	.38	.00	.00	1.02	64.19
BLUE LAKE	54.03	.46	.59	1.76	1.53	12.22	9.40	9.34	1.17	8.53	6.69	2.00	.34	.00	.00	.68	51.90
FIELDBROOK 4D RCH	71.05	.53	.92	3.70	1.60	17.80	12.05	15.35	1.60	10.45	4.70	2.10	.25	.00	.00	1.30	67.20
HONOR CAMP 42	72.94	.91	.33	1.72	2.13	14.32	10.98	14.53	2.50	12.41	9.40	3.39	.32	.00	.00	.88	70.86

T Trace
--- No record or record incomplete

TABLE A-2 (Continued)

PRECIPITATION DATA

NORTH COASTAL AREA

Station Name	Precipitation in Inches																
	Total July 1 To June 30	1966						1967									Total Oct. 1 To Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
NORTH COASTAL AREA																	
MAD RIVER																	
KORBEL	51.12	.36	.59	1.61	1.36	11.19	8.77	9.82	1.35	7.41	6.37	2.06	.23	.00	.00	.76	49.32
LITTLE RIVER	55.66	.30	.46	2.35	1.54	10.98	8.89	11.69	1.70	7.75	4.50	5.00	.50	T	T	2.35	54.90
MAD RIVER RANGER STA	58.82	.86	.49	1.00	.50	13.03	10.81	13.45	.94	10.48	5.84	1.13	.29	.00	T	.40	56.87
ORICK 3 NNE	*																
ORICK ARCATA REDWOOD	64.26	.51	.61	3.06	1.69	13.19	9.87	13.15	1.69	10.33	6.96	2.94	.26	.00	.00	1.35	61.43
ORICK PRAIRIE CRK	69.49	.67	.56	2.65	1.79	12.46	13.15	14.48	1.70	11.50	7.69	2.56	.28	T	.00	1.23	66.84
PATRICKS PT STATE PK	62.85	.00	.56	2.56	.84	13.81	8.75	14.19	1.86	9.72	7.05	3.26	.25	.00	.00	1.56	61.29
EEL RIVER																	
ADANAC LODGE	75.21	.00	.20	.66	.05	16.74	13.27	18.30	1.17	14.38	8.83	1.28	.33	.00	.00	.40	74.75
ALDERPOINT	49.87	.07	.30	.85	.10	10.77	8.94	12.32	.56	9.65	5.12	.66	.53	.00	T	.51	49.16
BRANSCOMB 2NW	---	.00	.22	.63	.08	19.53	13.66	19.47	1.33	14.13	9.36	1.65	---	.00	T	.30	---
BRIDGEVILLE 4NNW	---	.04	.57	1.10	1.15	15.10	10.32	13.95	1.49	12.28	9.84	2.00	---	.00	.00	.84	---
BULL CREEK	---	.00	.44	1.01	.38	19.47	15.47	19.54	1.53	15.62	7.29	1.08	---	.00	.00	.62	---
BURLINGTON STATE PK	70.20	T	.42	1.19	.29	16.95	13.62	15.89	.80	12.60	7.23	.87	.34	.00	.00	.67	69.26
COVELO	44.74	.00	.19	.39	.01	9.84	7.23	11.95	.55	8.97	4.38	.34	.89	.00	.00	.35	44.51
COVELO EEL RIVER R S	---	.00	.22	.62	.00	9.88	7.08	10.76	.55	8.55	4.62	.61	---	.00	.00	.30	---
CUMMINGS	74.52	.00	.24	.70	.05	16.43	12.59	18.10	.98	14.48	9.02	1.23	.70	.00	T	.30	73.88
DOS RIOS	---	.00	.00	.27	.00	13.33	10.90	14.65	---	---	---	---	---	---	---	---	---
EUREKA W B CITY	44.39	.25	.50	1.33	1.02	9.86	6.52	8.87	1.47	7.44	5.29	1.52	.32	.00	T	1.32	43.63
FERNDALE 2NW	44.41	.22	.44	1.25	.71	9.87	7.48	8.49	.97	8.51	4.73	1.16	.58	.02	.06	1.84	44.42
FORTUNA	44.58	.24	.37	1.09	.92	9.11	7.35	9.67	1.32	8.55	4.33	1.36	.27	.00	.00	.86	43.74
GARBERVILLE	---	.00	.30	1.16	.12	13.45	10.71	15.21	.58	11.50	6.29	.73	---	.00	.00	.37	---
GARBERVILLE HMS	62.36	.00	.31	1.22	.13	12.93	11.53	16.46	.90	11.91	5.48	1.04	.45	.00	.00	.42	61.25
GRIZZLY CRK REDWOOD	---	.01	.51	.99	1.09	10.88	10.92	11.36	1.16	12.27	5.92	---	.29	T	.00	.50	---
HARRIS 7 SSE	61.68	.00	.27	.88	.00	14.48	11.33	13.61	.95	11.01	7.67	.99	.49	.00	.27	.88	61.68
HARTSOOK INN	76.94	.00	.00	1.30	.00	17.19	12.86	20.16	2.13	13.63	8.92	.75	.00	.00	.00	.45	76.09
HIGH ROCK	75.88	T	.45	1.07	.50	20.57	13.66	21.17	1.18	14.12	1.45	1.42	.29	.01	.00	.49	74.86
HOLMES	59.52	T	.35	1.03	.75	12.46	10.68	14.05	.94	13.23	4.66	1.01	.36	.00	.00	.79	58.93
KNEELAND 10 SSE	---	.25	.52	1.25	1.91	12.65	10.07	---	1.17	10.33	5.91	1.61	.06	.00	.00	.57	---
LAKE MOUNTAIN	59.55	.16	.29	.68	.28	13.35	10.71	14.13	.63	11.80	5.85	1.10	.57	.00	.00	.53	58.95
LAKE PILLSBURY NO 2	60.67	.00	.58	.21	T	14.53	9.46	17.23	.46	9.91	6.78	.43	1.08	.00	.00	.06	59.94
LAYTONVILLE	---	.00	.19	.39	.06	13.01	8.96	16.53	.60	---	---	.56	.58	.00	.00	.16	---
MINA 3 NW	58.42	.25	.70	.82	.44	12.67	11.81	12.47	.67	8.77	7.90	1.20	.72	0	0	1.16	57.81
MIRANDA 4 SE	---	.00	.03	1.60	.00	14.20	9.60	---	.70	10.30	---	---	.70	.00	.00	---	---
MIRANDA SPENGLER RCH	---	.00	.31	1.69	.09	13.76	9.61	14.30	---	---	---	---	.37	.00	.00	.50	---
MYERS FLAT	66.34	.00	.35	1.06	.16	15.60	13.03	15.19	.30	11:54	7.88	.92	.31	.00	.00	.57	65.50
OLD HARRIS	68.14	T	.36	1.14	.24	14.83	12.83	15.94	.92	12.60	7.45	1.40	.43	.00	.01	.90	67.55
PHILLIPSVILLE 1 SE	59.74	T	.40	1.68	.03	14.59	8.83	14.53	.33	10.73	6.89	1.20	.53	.00	.00	.47	58.13
EEL RIVER																	
RICHARDSON GROVE	70.41	.01	.21	.94	.00	15.69	13.80	17.20	.82	13.12	7.58	.75	.29	.00	.00	.37	69.62
SCOTIA	52.13	.03	.34	1.13	.61	11.33	8.38	10.84	1.13	12.42	4.65	1.08	.19	T	.00	.85	51.48
SHERWOOD VALLEY	---	---	.07	.35	.07	13.10	9.39	13.13	1.23	9.47	8.37	1.62	1.32	.00	.00	.23	57.92
STANDISH HICKEY PK	72.55	T	.31	.59	.03	16.67	12.70	17.83	1.07	13.39	8.21	1.38	.37	.00	T	.68	72.33
SUNNY BRAE	46.93	.37	.57	1.66	1.18	9.50	7.54	9.38	1.50	7.78	5.65	1.49	.31	.00	T	1.01	45.34
WEOTT 2SE	71.93	.43	.00	1.13	.30	15.90	14.06	16.10	.83	13.17	7.55	.96	1.50	.00	.00	.70	71.07
WILLITS 1NE	53.39	T	.23	.48	.05	11.80	8.28	14.08	.98	10.05	5.51	.88	1.05	.00	T	.15	52.83
WILLITS HOWARD R S	---	.00	.20	.30	.00	11.98	8.58	14.96	.82	10.21	---	.85	1.78	.00	.03	.12	---
WILLITS NW PAC RR	55.02	.00	.20	.42	.00	11.49	8.45	14.94	1.07	11.00	5.56	.84	1.05	---	---	---	---
ZENIA 1SSE	64.20	.17	.57	1.21	.23	13.94	12.11	15.96	.93	9.96	7.38	1.74	.00	.00	.00	.00	62.25
MATTOLE RIVER																	
FERNDALE 8SSW	47.67	.30	.31	1.36	.89	10.70	11.43	5.92	1.52	6.44	6.23	1.90	.67	.00	.00	1.33	47.03
HONEYDEW 2WSW	111.02	T	.32	1.19	.36	30.26	20.68	24.96	1.37	21.34	8.73	1.44	.37	.00	.06	.50	110.07
HONEYDEW HUNTER	110.65	.00	.13	1.57	.00	30.85	20.05	25.16	1.19	21.52	8.42	1.46	.30	.00	.00	.61	109.56
PETROLIA	76.79	.00	.28	1.14	.58	20.65	13.93	14.35	1.53	14.29	8.09	1.52	.43	.00	.00	.71	76.08
PETROLIA 4NW	---	---	.23	1.32	.59	14.05	11.48	10.99	2.00	10.17	6.61	2.18	.72	.00	.00	1.03	59.82
SHELTER COVE	---	---	---	1.33	.26	15.97	---	---	---	---	---	---	---	.00	.02	.70	---
UPPER MATTOLE	88.92	.00	.30	1.25	.45	23.81	15.14	18.81	1.55	18.02	7.82	1.48	.29	.00	.00	.57	87.94
WHITETHORN	88.21	.00	.34	.97	.08	22.01	15.37	20.55	1.66	15.78	9.62	1.44	.39	.00	.00	1.16	88.06

* Station discontinued in July, 1966.
T Trace
--- No record or record incomplete

TABLE A-3

STORAGE GAGE PRECIPITATION DATA
NORTH COASTAL AREA

Station	Agency	1966-67 Season		
		Measurement Period		Precipitation in inches
NORTH COASTAL AREA				
SMITH RIVER				
Camp Six Lookout	DWR	--	--	NR
LOST RIVER-BUTTE VALLEY				
Bray 10 WSW	DWR	6-30-66	7-12-67	34.95
Crowder Flat	DWR	6-29-66	7-12-67	21.45
Long Bell Station	DWR	6-30-66	7-13-67	29.07
Medicine Lake	DWR	6-27-66	7-13-67	60.30
SHASTA-SCOTT VALLEYS				
Gazelle Lookout	DWR	6-28-66	7-12-67	21.93
KLAMATH RIVER				
Beswick 7S	DWR	6-28-66	7-12-67	86.69
Blue Creek Mountain	USWB	9- 6-66	8-30-67	141.35
TRINITY RIVER				
Board Camp Mountain	DWR	6-27-66	7-10-67	99.23
Mumbo Basin	DWR	6-29-66	7-13-67	70.54
EEL RIVER				
Plaskett	DWR	6-30-66	7-10-67	66.24

DWR - Department of Water Resources, Northern District
USWB - United States Weather Bureau

TABLE A-4 TEMPERATURE DATA

The definition of terms and the abbreviations used in Table A-4 are as follows:

Maximum - The highest temperature of record for the month.

Minimum - The lowest temperature of record for the month.

Avg Max - The arithmetic average of daily maximum temperatures for the month.

Avg Min - The arithmetic average of daily minimum temperatures for the month.

Average - The arithmetic average of the daily maximum and minimum temperatures for the month.

TABLE A-4

TEMPERATURE DATA

NORTH COASTAL AREA

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1966						1967								
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NORTH COASTAL AREA																
LOST RIVER-BUTTE VAL																
DORRIS INSPECT STA	Maximum	93	93	88	78	66	50	52	60	58	54	84	92	93	94	86
	Minimum	28	34	24	16	14	12	-6	16	0	10	18	32	38	36	31
	Avg Max	79.6	82.4	75.0	63.3	48.4	41.6	41.8	49.0	46.9	47.0	67.4	74.1	85.2	87.7	78.4
	Avg Min	41.6	45.5	40.8	30.1	29.6	25.3	21.4	23.5	23.9	23.9	35.0	42.0	46.5	47.1	41.1
	Average	60.6	64.0	57.9	46.7	39.0	33.5	31.6	36.3	35.4	35.5	51.2	58.1	65.9	67.4	59.8
GRASS LAKE RNS	Maximum	--	--	--	--	--	--	--	--	--	--	--	90	92	94	86
	Minimum	--	--	--	--	--	--	--	--	--	--	--	31	40	34	29
	Avg Max	--	--	--	--	--	--	--	--	--	--	--	71.5	83.4	85.9	77.8
	Avg Min	--	--	--	--	--	--	--	--	--	--	--	41.4	46.2	45.1	37.3
	Average	--	--	--	--	--	--	--	--	--	--	--	56.5	64.8	65.5	57.6
TULELAKE INSPECT STA	Maximum	97	96	93	83	76	55	52	59	61	54	88	93	95	97	90
	Minimum	28	35	31	17	1	9	2	12	13	14	22	31	41	41	31
	Avg Max	82.0	86.8	77.7	67.4	47.9	41.0	41.8	48.9	45.7	43.3	67.5	74.5	87.7	90.5	81.7
	Avg Min	41.3	46.1	40.6	29.2	26.4	22.6	20.6	20.9	23.1	22.9	34.3	42.4	48.7	49.7	42.7
	Average	61.7	66.5	59.2	48.3	37.2	31.8	31.2	34.9	34.4	33.1	50.9	58.5	68.2	70.1	62.2
SHASTA-SCOTT VALLEYS																
MONTAGUE	Maximum	101	102	98	88	75	59	56	61	67	62	90	98	100	104	96
	Minimum	31	36	34	18	15	15	11	14	16	21	20	35	43	41	36
	Avg Max	87.6	91.1	81.8	71.2	54.3	46.0	46.4	54.4	53.5	52.4	73.2	80.3	98.9	95.5	87.5
	Avg Min	45.9	48.1	40.6	27.9	28.9	23.9	23.2	22.4	27.5	28.9	37.5	46.5	51.8	49.0	40.6
	Average	66.8	69.6	61.2	49.6	41.6	35.0	34.8	38.4	40.5	40.7	55.4	63.4	72.4	72.3	64.1
KLAMATH RIVER																
COPCO DAM NO 1	Maximum	104	105	101	90	78	53	54	67	70	63	87	105	108	107	97
	Minimum	40	48	36	30	23	22	18	24	22	26	31	35	54	52	48
	Avg Max	89.2	93.8	84.6	74.9	55.5	44.5	46.0	57.0	54.7	53.1	73.3	84.8	97.5	100.0	91.6
	Avg Min	55.2	58.4	51.8	42.3	36.7	30.3	28.3	29.9	30.8	31.8	43.8	52.8	60.7	61.4	55.4
	Average	72.2	76.1	68.2	58.6	46.1	37.4	37.2	43.5	42.8	42.5	58.6	68.8	79.1	80.7	73.5
SKIAD VALLEY R S	Maximum	105	106	103	95	84	58	57	66	73	76	98	107	109	109	100
	Minimum	41	44	34	26	25	24	21	24	21	27	31	41	46	47	39
	Avg Max	89.8	95.3	85.2	75.6	58.1	47.7	45.7	55.5	55.6	55.1	78.8	87.1	98.7	101.3	92.3
	Avg Min	49.5	52.7	46.9	37.3	35.5	34.2	30.2	29.9	32.7	34.7	41.2	49.9	53.9	53.2	45.5
	Average	69.7	74.0	66.1	56.5	46.8	41.0	38.0	42.7	44.2	44.9	60.0	68.5	76.3	77.3	68.9

--- No record or record incomplete

TABLE A-4 (Continued)

TEMPERATURE DATA

NORTH COASTAL AREA

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1966						1967								
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NORTH COASTAL AREA																
TRINITY RIVER																
BURNT RANCH RMS	Maximum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Minimum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Avg Max	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Avg Min	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Average	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HIDDEN VALLEY RANCH	Maximum	100	102	96	86	72	54	54	64	68	60	90	101	102	104	98
	Minimum	42	44	39	27	30	23	25	26	22	30	34	40	46	54	48
	Avg Max	86.5	93.1	83.9	73.0	54.5	45.7	46.0	55.0	52.5	51.6	74.5	84.0	95.7	97.8	91.2
	Avg Min	50.8	54.3	49.3	41.5	40.5	34.5	33.1	33.4	33.1	35.1	43.7	50.0	55.6	58.5	51.4
	Average	68.7	73.7	66.6	57.3	47.5	40.1	39.6	44.2	42.8	43.3	59.1	67.0	75.7	78.2	71.3
MAD RIVER																
BLUE LAKE	Maximum	77	80	94	82	77	70	63	70	67	66	80	80	78	76	88
	Minimum	46	46	44	34	33	30	31	32	30	34	38	45	50	51	50
	Avg Max	69.6	72.6	75.4	67.8	60.6	58.3	56.4	58.4	56.8	56.4	64.1	66.9	70.4	71.9	73.6
	Avg Min	53.1	53.5	52.2	46.6	46.1	41.5	40.9	40.4	39.6	40.6	47.2	53.5	55.4	54.9	54.9
	Average	61.4	63.0	63.8	57.2	53.4	49.9	48.7	49.4	48.2	48.5	55.7	60.2	62.9	63.4	64.3
FIELDBROOK 4D RANCH	Maximum	74	78	90	75	74	64	60	64	64	61	80	82	78	77	85
	Minimum	44	46	40	30	28	26	26	27	27	31	38	44	47	47	47
	Avg Max	68.4	71.6	72.8	65.2	58.1	53.9	50.6	56.8	54.5	53.8	64.7	67.3	71.2	72.6	73.3
	Avg Min	50.1	50.0	47.2	43.5	41.9	38.7	36.6	35.6	36.9	37.7	45.8	50.2	51.1	51.4	50.7
	Average	59.3	60.8	60.0	54.4	50.0	46.3	43.6	46.2	45.7	45.8	55.3	58.8	61.2	62.0	62.0
HONOR CAMP 42	Maximum	82	88	94	86	80	66	60	72	65	58	84	92	86	90	94
	Minimum	42	40	39	32	30	26	28	26	27	28	31	40	42	44	46
	Avg Max	68.5	75.1	73.0	66.8	56.3	51.8	51.2	56.5	49.4	45.8	63.5	67.3	72.4	78.2	77.9
	Avg Min	46.2	49.2	49.1	43.4	41.9	36.6	36.3	36.5	33.6	32.5	40.3	45.9	48.8	51.8	51.2
	Average	57.4	62.2	61.1	55.1	49.1	44.2	43.8	46.5	41.5	39.2	51.9	56.6	60.6	65.0	64.6
KORBEL	Maximum	82	86	96	89	76	70	64	70	70	65	88	85	84	80	95
	Minimum	44	42	40	32	30	26	28	28	26	30	32	42	43	46	46
	Avg Max	73.6	75.9	77.8	69.0	61.7	55.7	55.8	60.7	59.0	57.5	68.0	72.2	75.8	77.5	78.4
	Avg Min	49.7	48.3	47.2	42.5	41.3	38.3	36.3	34.7	36.3	35.1	42.2	54.6	50.3	50.3	49.2
	Average	61.7	62.1	62.5	55.8	51.5	47.0	46.1	47.7	47.7	46.3	55.1	63.4	63.1	63.9	63.8

--- No record or record incomplete

TABLE A-4 (Continued)

TEMPERATURE DATA

NORTH COASTAL AREA

Station Name		TEMPERATURE IN DEGREES FAHRENHEIT														
		1966						1967								
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NORTH COASTAL AREA																
EEL RIVER																
BULL CREEK	Maximum	---	103	107	93	90	62	63	70	74	66	94	---	---	---	---
	Minimum	---	38	36	27	30	26	25	24	24	30	30	---	---	---	---
	Avg Max	---	89.8	84.4	75.6	61.1	54.4	53.7	61.6	56.4	54.1	73.0	---	---	---	---
	Avg Min	---	46.7	44.4	38.8	40.1	37.9	34.1	32.3	34.1	35.1	40.8	---	---	---	---
	Average	---	68.3	64.4	57.2	50.6	46.2	43.9	47.0	45.3	44.6	56.9	---	---	---	---
BURLINGTON STATE PK	Maximum	---	---	---	---	---	62	60	66	67	65	91	100	---	---	94
	Minimum	---	---	---	---	---	32	32	32	31	36	38	49	---	---	50
	Avg Max	---	---	---	---	---	55.7	53.7	59.2	58.3	57.7	74.0	76.7	---	---	83.4
	Avg Min	---	---	---	---	---	42.0	39.2	39.1	39.3	39.8	47.8	53.9	---	---	53.6
	Average	---	---	---	---	---	48.9	46.5	49.2	48.8	48.8	60.9	65.3	---	---	68.5
GARBERVILLE HMS	Maximum	---	108	108	---	---	91	90	80	75	71	101	112	104	108	105
	Minimum	---	46	37	---	---	32	32	28	30	33	39	50	50	46	40
	Avg Max	---	98.3	91.2	---	---	66.2	67.7	66.8	62.7	63.5	82.3	82.5	91.5	97.3	96.5
	Avg Min	---	53.0	49.8	---	---	38.9	41.7	37.3	38.8	37.8	46.5	53.9	54.7	54.1	50.3
	Average	---	75.7	70.5	---	---	52.6	54.7	52.1	50.8	50.6	64.4	68.2	73.1	75.7	73.4
GRIZZLY CRK REDWOOD	Maximum	84	89	98	83	79	62	61	68	69	67	--	91	90	90	96
	Minimum	44	41	40	29	28	25	26	28	26	30	--	44	49	45	44
	Avg Max	74.1	76.5	78.2	69.9	59.9	53.5	52.9	59.9	55.2	55.7	--	71.1	74.5	79.8	78.7
	Avg Min	50.3	48.5	48.0	43.0	41.9	38.0	36.4	36.1	35.5	35.2	--	49.6	51.9	51.2	50.7
	Average	62.2	62.5	63.1	56.5	50.9	45.8	44.7	48.0	45.4	45.5	--	60.4	63.2	65.1	64.7
HOLMES	Maximum	85	90	96	83	80	65	62	68	71	70	91	92	91	88	94
	Minimum	48	46	44	37	35	30	32	30	34	34	40	47	50	50	47
	Avg Max	75.5	79.2	81.2	71.0	61.2	56.3	55.8	62.4	59.0	59.5	73.0	73.0	76.0	80.2	79.6
	Avg Min	54.4	52.2	51.0	46.1	45.7	42.2	40.2	40.1	40.5	39.8	47.5	52.4	54.3	53.9	53.8
	Average	65.0	65.7	66.1	58.6	53.5	49.3	48.0	51.3	49.8	49.7	60.3	62.7	56.2	67.1	66.7
OLD HARRIS	Maximum	94	98	112	104	90	90	78	86	84	74	94	94	98	100	100
	Minimum	40	40	38	30	28	22	22	22	22	22	30	38	40	41	40
	Avg Max	82.2	84.2	83.7	80.1	59.9	60.9	56.7	71.9	57.6	52.7	75.8	74.5	83.3	89.9	83.5
	Avg Min	45.3	49.6	48.2	43.5	38.6	34.3	32.6	36.1	30.7	28.7	40.4	45.7	48.7	57.0	50.0
	Average	63.8	66.9	66.0	61.8	49.3	47.6	44.7	54.0	44.2	40.7	58.1	60.1	66.0	73.5	66.8
STANDISH HICKEY PK	Maximum	100	99	103	86	88	62	68	72	74	70	91	97	96	102	99
	Minimum	42	43	40	32	30	28	29	27	28	30	37	43	48	45	42
	Avg Max	82.7	88.5	82.8	75.4	61.8	54.3	56.1	63.0	57.5	54.6	75.5	79.8	88.5	92.4	93.7
	Avg Min	48.5	51.4	47.0	42.1	41.2	38.6	34.8	34.9	36.0	36.1	44.0	50.1	52.5	52.2	50.1
	Average	65.6	70.0	64.9	58.8	51.5	46.5	45.5	49.0	46.8	45.4	59.8	65.0	70.5	72.3	66.9

--- No record or record incomplete

TABLE A-5 EVAPORATION DATA

The definition of terms and the abbreviations used in Table A-5 are as follows:

Evap - The total amount of water evaporated from the pan in inches for the month.

Wind - The amount of movement of air over the pan in miles for the month.

Avg Max - The arithmetic average of daily maximum water temperatures in degrees Fahrenheit for the month.

Avg Min - The arithmetic average of daily minimum water temperatures in degrees Fahrenheit for the month.

TABLE A-5

EVAPORATION DATA

NORTH COASTAL AREA

Station Name		Evaporation in Inches							Wind in Total Miles									Water Temperature in Degrees Fahrenheit
		Total July 1 To June 30	1966						1967									Total Oct. 1 To Sept. 30
			July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
NORTH COASTAL AREA																		
LOST RIVER-BUTTE VALLEY																		
TULELAKE	Evap	---	9.38	8.76	6.43	3.69	--	--	--	--	--	2.71[b]	7.44	7.84[b]	9.64	9.05	7.10	---
	Wind																	
	Avg Max																	
	Avg Min																	
KLAMATH RIVER																		
SKIAD VALLEY R S	Evap	---	8.47	8.47	4.71	2.88	--	--	--	--	--	--	--	--	9.22	8.06	5.37	---
	Wind																	
	Avg Max																	
	Avg Min																	
TRINITY RIVER																		
TRINITY DAM VISTA PT	Evap	---	10.41	10.06	6.30	3.54	.87	.35[b]	--	--	--	1.35[b]	6.44	7.55	10.65	10.09	6.45	---
	Wind	---	1375	1240	1130	1092	817	756	--	--	842	941	1240	1202	1237	1242	1086	---
	Avg Max																	
	Avg Min																	
EEL RIVER																		
FERNDALE 2NW	Evap	30.23	4.41	4.00	3.74	1.94	.96	.74[b]	.83[b]	1.25	2.17	2.49	4.15	3.55	4.38	3.85[b]	3.55	29.86
	Wind	12880	900	957	841	759	1215	1200	1446	922	1658	1207	870	905	893	760	610	12445
	Avg Max		79.5	78.0	78.7	68.3	59.4	55.4	53.1	59.4	62.4	65.8	76.5	76.7	80.1	79.0	80.2	
	Avg Min		57.4	55.9	56.0	50.0	46.1	44.2	41.8	43.1	43.6	43.8	52.7	55.8	57.9	57.4	57.6	
LAKE PILLSBURY NO 2	Evap	---	--	9.81	6.76	--	1.07	.58	.62	1.90	1.99	2.01	7.71	7.99	10.63	10.07	7.29	---
	Wind	---	--	837	690	--	211	165	213	423	545	527	766	747	728	532	610[b]	---
	Avg Max		--	90.4	83.3	--	57.6	50.4	51.5	60.8	61.4	62.4	83.1	89.0	94.4	93.1	86.0	
	Avg Min		--	60.2	54.5	--	44.3	41.0	38.1	40.8	41.6	41.7	52.3	58.6	62.5	61.4	56.7	

b. Record partially estimated
--- No record or record incomplete

APPENDIX B

SURFACE WATER MEASUREMENTS

INTRODUCTION

This appendix presents surface water data for the 1967 water year, the period from October 1, 1966, to September 30, 1967. The data consist of daily mean discharges, gaging station locations, and summary tables of monthly and annual unimpaired runoff from major streams.

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

North Coastal Area

F0 - Smith River
F1 - Lost River-Butte Valley
F2 - Shasta-Scott Valleys
F3 - Klamath River
F4 - Trinity River
F5 - Mad River
F6 - Eel River
F7 - Mattole River

INDEX TO GAGING STATIONS

F21300 Little Shasta River near Montague
F21700 Shasta River at Edgewood
F25420 Moffett Creek near Fort Jones
F41510 Browns Creek near Douglas City
F41540 Weaver Creek near Douglas City
F42100 North Fork Trinity River at Helena
F44500 Big Creek near Hayfork

INDEX TO SAMPLING STATIONS

F01300.00 Smith River near Crescent City (3a)
F21050.00 Shasta River near Yreka (1a)
F25250.00 Scott River near Fort Jones (1b)
F31100.00 Klamath River near Klamath (3)
F31220.01 Klamath River at Orleans (2c)
F31430.00 Klamath River near Seiad Valley (2b)
F31470.00 Klamath River above Hamburg Reservoir Site (1c)
F31600.00 Klamath River below Iron Gate Dam (1f)
F34100.00 Salmon River at Somesbar (2a)
F41090.00 Trinity River near Hoopa (4)
F41376.00 Trinity River near Burnt Ranch (4b)
F41640.00 Trinity River at Lewiston (4a)
F51100.00 Mad River near Arcata (6a)
F55100.00 Redwood Creek at Orick (3b)
F61100.00 Eel River at Scotia (6)
F61154.50 Eel River at South Fork (5)
F61329.50 Eel River above Outlet Creek near Dos Rios (5d)
F61350.00 Outlet Creek near Longvale (5b)
F63010.00 Eel River, Middle Fork at Dos Rios (5c)
F63050.00 Mill Creek near Covelo (5e)
F63105.00 Williams Creek near Covelo (5f)
F63120.00 Eel River, Middle Fork at Eel River Ranger Station (5g)
F63200.00 Black Butte River near Covelo (5h)
F64100.00 Eel River, South Fork near Miranda (7)
F65300.00 Van Duzen River near Bridgeville (5a)
F71100.00 Mattole River near Petrolia (7a)
F75100.00 Bear River near Capetown (7b)

Figure 8-1

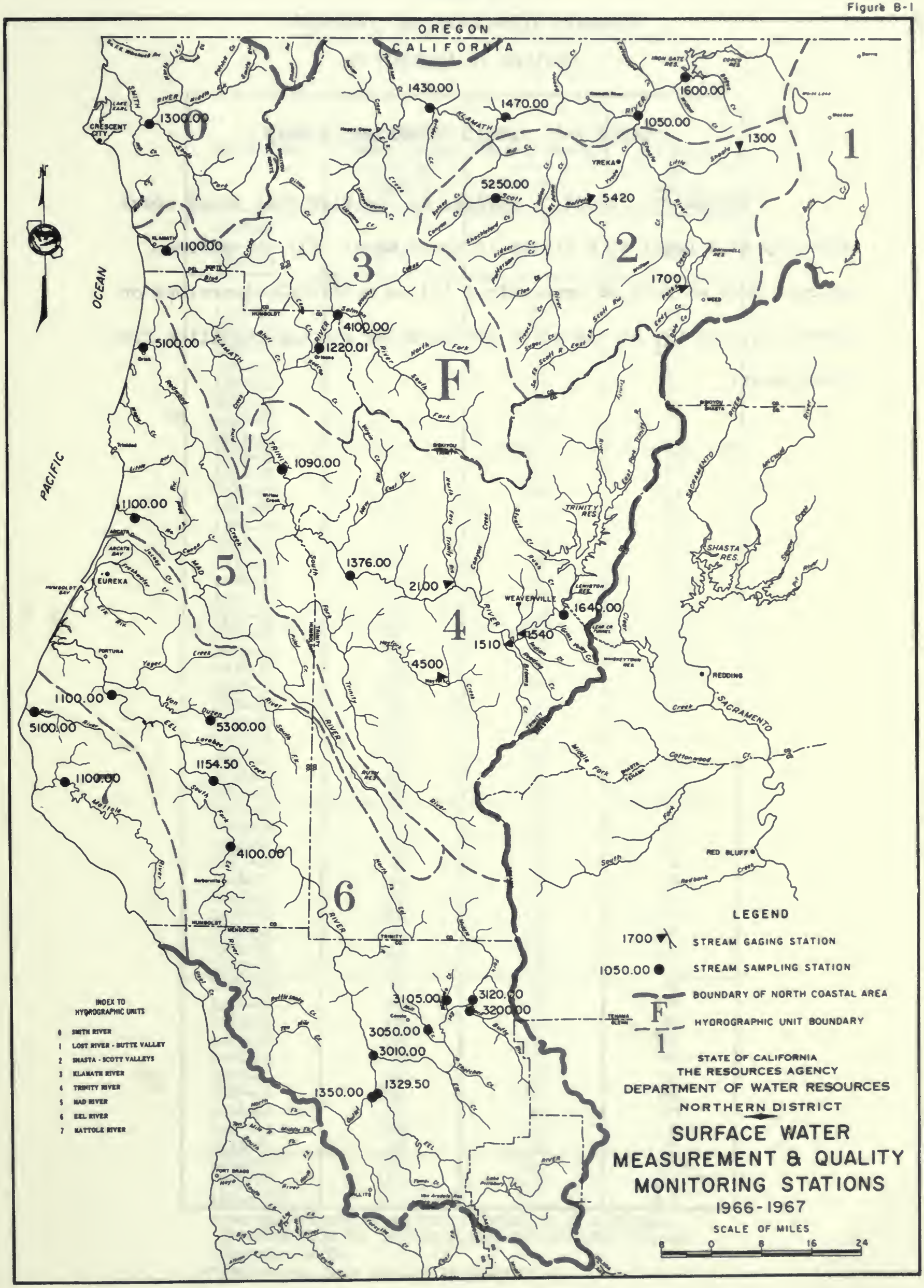

OREGON
CALIFORNIA
PACIFIC OCEAN
0
1
2
3
4
5
6
F
1300.00
1430.00
1470.00
1600.00
1050.00
1300
5250.00
5420
1100.00
1700
4100.00
1220.01
5100.00
1090.00
1100.00
1376.00
2100
1640.00
1540
1510
4500
1100.00
5100.00
5300.00
1154.50
1100.00
4100.00
3105.00
3120.00
3200.00
3050.00
3010.00
1350.00
1329.50
CRESCENT CITY
YREKA
EUREKA
WEAVERVILLE
REDDING
RED BLUFF
TRINITY RES.
SHASTA RES.
LEGEND
1700 STREAM GAGING STATION
1050.00 STREAM SAMPLING STATION
BOUNDARY OF NORTH COASTAL AREA
F HYDROGRAPHIC UNIT BOUNDARY
I
INDEX TO HYDROGRAPHIC UNITS
0 SMITH RIVER
1 LOST RIVER - BUTTE VALLEY
2 SHASTA - SCOTT VALLEYS
3 KLAMATH RIVER
4 TRINITY RIVER
5 MAD RIVER
6 EEL RIVER
7 MATTOLE RIVER
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
NORTHERN DISTRICT
SURFACE WATER
MEASUREMENT & QUALITY
MONITORING STATIONS
1966-1967
SCALE OF MILES
8 0 8 16 24

TABLE B-1 ANNUAL UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that would occur naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artifical diversions or accretions; and (3) no change in ground water storage resulting from development.

TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

In Percent of Average

Water Year	Klamath River, Copco To Somesbar	Trinity River At Lewiston	Eel River At Scotia
Average Annual Runoff*	4332	1167	5146
1915-16		129	
1916-17		56	84
1917-18		52	44
1918-19		99	103
1919-20		35	28
1920-21		154	152
1921-22		67	72
1922-23		59	54
1923-24		23	17
1924-25		128	139
1925-26		69	64
1926-27		156	153
1927-28	88	91	90
1928-29	58	45	37
1929-30		70	68
1930-31	41	34	31
1931-32	77	62	70
1932-33	83	69	71
1933-34	50	59	48
1934-35	83	83	99
1935-36	92	88	112
1936-37	75	86	69
1937-38	183	180	209
1938-39	59	49	52
1939-40	104	138	142
1940-41	103	218	160
1941-42	107	155	144
1942-43	137	95	111
1943-44	63	56	44
1944-45	84	90	93
1945-46	118	121	117
1946-47	60	63	51
1947-48	99	103	92
1948-49	74	94	81
1949-50	94	73	80
1950-51	146	138	139
1951-52	153	156	156
1952-53	149	138	139
1953-54	142	136	134
1954-55	61	63	62
1955-56	191	174	198
1956-57	100	93	84
1957-58	189	231	227
1958-59	79	89	80
1959-60	80	88	91
1960-61	104	104	104
1961-62	75	89	77
1962-63	136	137	138
1963-64	92	68	67
1964-65	165	147	183
1965-66	103	115	100
1966-67**	123	143	128

*Average Unimpaired Runoff in Thousands of Acre-Feet Computed From the 50-Year Period October 1915 Through September 1965.

**Preliminary Data Subject to Revision.

TABLE B-2

MONTHLY UNIMPAIRED RUNOFF

In Percent of Average

Month		Klamath River, Copco to Somesbar	Trinity River At Lewiston	Eel River At Scotia
October 1966	Percent*	48	73	12
	Average**	90	21	56
November 1966	Percent*	128	267	178
	Average**	220	47	274
December 1966	Percent*	178	168	141
	Average**	485	91	874
January 1967	Percent*	162	138	165
	Average**	579	94	1042
February 1967	Percent*	93	103	49
	Average**	595	144	1180
March 1967	Percent*	97	113	126
	Average**	577	152	797
April 1967	Percent*	70	64	158
	Average**	630	214	571
May 1967	Percent*	149	177	203
	Average**	572	229	235
June 1967	Percent*	151	230	165
	Average**	334	118	79
July 1967	Percent*	108	208	158
	Average**	126	35	22
August 1967	Percent*	116	224	141
	Average**	67	13	9
September 1967	Percent*	101	86	132
	Average**	57	9	7
1966-67 Water Year	Percent*	123	143	128
	Average**	4332	1167	5146

*Preliminary Data Subject to Revision.

**Average Unimpared Runoff in Thousands of Acre-Feet Computed From the 50-Year Period October 1915 Through September 1965.

TABLE B-3 DAILY MEAN DISCHARGE

The streamflow table is arranged in downstream order for each stream or stream system. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (e.g., Weaver Creek near Douglas City).

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

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

1. Daily flows - Cubic feet per second

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - Cubic feet per second

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Yearly totals - acre-feet

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

TABLE B-3

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1967	F21300	LITTLE SHASTA RIVER NEAR MONTAGUE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.6	2.6	15	5.2	31	16	18	38	118	20	8.6	5.9	1
2	2.6	2.6	20	4.8	25	16	21	50	100 *	19	8.6	5.9	2
3	2.6	2.6	15	4.8	24 *	13	23	56 *	99	18	8.2	5.9	3
4	2.6	2.4	22	4.5 *	24	10	20	67 *	83	18	8.6	5.9	4
5	2.6	2.4	28	4.5	23	12	20	69	79	18	8.6	5.9	5
6	2.4 *	3.7	14	4.2	20	12	21	74	76	17	8.6	5.9	6
7	2.4	3.2	11	3.9	20	14	21	97	72	16	8.6	5.9	7
8	2.6	2.8	8.8 *	3.7	18	16	23	126	67	16	8.2	5.5	8
9	2.6	2.8	8.3	3.4	18	18	25	169	65	16	8.2	5.5	9
10	2.6	3.7	11	3.0	20	12 *	26	151	61	15	7.8	5.5	10
11	2.6	6.5	14	3.9	18	9.7	22	117	56	15	7.8	5.5	11
12	2.8	4.5	25	5.2	18	15	21	102	54	14	7.8	5.5	12
13	2.6	4.2	46	11	18	14	25	97	51	14 *	7.4	5.5	13
14	2.6	3.4	30	14	15	14	24	105	47 *	13	7.4	5.2 *	14
15	2.6	3.4	20	13	13	15	28	125	45	13	7.4	5.2	15
16	2.6	6.5	16	12	13	73	23	133	43	12	7.0	5.2	16
17	2.6	3.4	14	10	23	86	22	134	40	13	7.0	5.2	17
18	2.6 *	3.0	14	8.3	32	62	22	131	38	12	7.4	5.5	18
19	2.4	3.7	15	6.9	24	40	25 *	133	39	12	7.4	5.9	19
20	2.4	21	15	5.6	16	47	25	129	36	12	7.4	5.5	20
21	2.8	8.3	11	6.5	15	52	28	129	36	12	7.0	5.5	21
22	3.2	4.5 *	10	6.0	14	51	32	131	34	11	7.0	5.2	22
23	3.4	3.0	8.8	5.6	14	54	29	133	30	11	7.0	4.5	23
24	3.0	2.8	5.6	5.6	14	37	31	128	29	11	7.0 *	4.5	24
25	2.8	2.6	6.9	5.2	13	29	36	123	27	11	7.0	4.5	25
26	2.8	2.6	6.0	5.2	11	25	28	118	26	10	7.0	4.5	26
27	2.8	2.8	6.0	13	12	24	32	117	24	9.8	7.0	4.5	27
28	2.6	6.9	6.0	56	13	23	31	114	24	9.8	7.0	4.5	28
29	2.6	13	6.0	97		21	27	106	22 *	9.4	6.6	4.5	29
30	2.6	9.2	5.6	50		18	27	97	21	9.0	6.2	4.5	30
31	2.6		5.2	38		18		90		9.0	6.2		31
MEAN	2.7	4.8	14.2	13.5	18.5	28	25.2	109	51.4	13.4	7.5	5.3	MEAN
MAX.	3.4	21	46	97	32	86	36	169	118	20	8.6	5.9	MAX.
MIN.	2.4	2.4	5.2	3.0	11	9.7	18	38	21	9.0	6.2	4.5	MIN.
AC. FT.	164	286	871	833	1030	1720	1500	6720	3060	825	462	315	AC. FT.

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

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
24.5	212	3.35	5	8	2000	2.4	1.38	10	6	1200	17780

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
41 45 11	122 17 44	NW15 45N 4W	5910 E	10.66	12/22/64	28-NOV 51 δ APR 52-APR 55 SEP 56-DATE	28-NOV 51 δ APR 52-APR 55 SEP 56-DATE	1956 1965	1964	0.00	LOCAL

Station located S of Ball Mountain Road, 12 mi. NE of Montague, 16 mi. SW of Macdoel. Stage-discharge relationship affected by ice at times. Drainage area is 48.2 sq. mi.

δ - Irrigation season only.

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1967	F21700	SHASTA RIVER NEAR EDGEWOOD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	7.8	20	236	60	220	67	101	101	202	88	9.4	5.7	1
2	8.2	20	275	57	168	70	94	101	168 *	83	9.4	7.0	2
3	8.5	20	250	57	138 *	69	94	96 *	142	76	8.9	6.4	3
4	9.4	20	1010 E	57 *	124	66	88	88	142	66	8.5	6.0	4
5	9.8	18	653 E	60	113	67	94	94	162	53	8.9	6.7	5
6	11 *	25	208	53	101	66	147	98	193	46	8.2	6.4	6
7	9.8	22	157 *	50	101	62	113	128	230	44	8.2	5.1	7
8	11	22	126	48	101	57	105	217	214	40	7.8	4.6	8
9	11	20	124	50	98	51	101	329	214	38	7.8 *	4.1	9
10	11	20	122	51	96	78 *	147	321	205	35	6.0	4.6	10
11	11	22	111	53	92	69	145	230	199	34	6.4	4.3	11
12	11	22	126	52	94	66	126	196	181	28	6.7	5.1	12
13	11	42	208	51	94	66	126	155	162	23 *	6.7	5.4	13
14	13	190	170	50	98	67	124	160	162 *	22	7.4	6.0 *	14
15	15	208	135	48	88	152	157	205	170	20	8.2	5.4	15
16	15	205	120	47	92	1340 E	150	337	190	20	7.8	5.1	16
17	16	92	111	45	92	467 E	181	472 E	205	20	7.8	5.7	17
18	19 *	73	105	47	90	290	170	488 E	220	19	7.0	7.8	18
19	18	575 E	101	47	83	211	170 *	483 E	243	18	7.4	7.4	19
20	18	1090 E	99	59	78	211	184	504 E	230	16	7.0	8.5	20
21	17	313	96	83	73	170	170	583 E	214	16	7.4	7.4	21
22	18	187 *	92	66	73	152	181	638 E	176	16	7.0	7.8	22
23	18	131	87	59	72	170	151	620 E	135	15	6.7	7.4	23
24	18	105	83	55	73	140	147	499 E	120	13	6.7 *	7.4	24
25	18	96	83	57	80	126	140	358	111	13	7.8	7.4	25
26	18	90	80	64	72	115	131	309	109	11	7.0	7.0	26
27	18	85	70	170	69	111	138	253	109	11	8.2	6.7	27
28	18	107	63	532 E	67	113	120	236	101	10	7.4	6.7	28
29	19	120	63	867 E		111	113	217	94	10	7.0	6.4	29
30	20	103	63	467 E		107	109	190	92	9.4	6.7	6.7	30
31	20		60	341		107		162		9.4	6.4		31
MEAN	14.4	137	171	123	97.9	162	134	286	170	29.8	7.5	6.3	MEAN
MAX.	20	1090 E	1010 E	867 E	220	1340 E	184	638 E	243	88	9.4	8.5	MAX.
MIN.	7.8	18	60	45	67	51	88	88	92	9.4	6.0	4.1	MIN.
AC. FT.	886	8148	10490	7543	5435	9945	7976	17590 E	10110	1830	464	373	AC. FT.

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

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
112	2390	5.95	12	4	2100	4.3	1.94	9	10	0100	80790

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
41 28 20	122 26 18	SE20 42N 5W	9600 E	8.86	12/22/64	MAR 61-DATE	MAR 61-DATE	1961		0.00	LOCAL

Station located at Edgewood Road bridge, 1.2 mi. N of Edgewood. Tributary to Dwinnell Reservoir. Stage-discharge relationship affected by ice at times. Several diversions for irrigation above station including one large diversion. Computation of flow discontinued Oct. 1, 1967.

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1967	F25420	MOFFETT CREEK NEAR FORT JONES

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.2	1.0	2.5	12	117	24	42	42	24	10	2.2	0.8	1
2	0.4	1.0	4.8	11	94	27	44	40	24 *	9.8	2.0	0.7	2
3	0.6	1.0	4.3	11	81 *	27	42	41 *	20	9.8	1.8	0.5	3
4	0.6	1.0	18	10 *	72	26	39	42	20	9.5	1.7	0.5	4
5	0.6	1.0	45	10	67	24	41	43	20	8.7	1.7	0.5	5
6	0.3 *	1.4	29	9.7	62	24	41	46	18	8.7	1.7	0.5	6
7	0.3	1.2	23	9.7	57	23	39	55	19	9.8	1.7	0.5	7
8	0.3	1.2	19 *	9.7	53	22	36	70	18	8.7	0.9	0.5	8
9	0.3	1.2	18	9.7	51	22	36	79	18	7.6	0.7 *	0.5	9
10	0.3	1.2	21	9.7	49	24 *	35	82	17	8.7	0.7	0.5	10
11	0.3	1.3	21	9.7	46	24	35	75	16	6.4	0.7	0.5	11
12	0.3	1.4	22	9.7	43	23	34	66	16	5.8	0.7	0.5	12
13	0.4	1.5	32	9.4	42	22	34	54	16 *	5.3 *	0.7	0.5	13
14	0.4	1.4	41	9.4	40	22	34	48	16	4.8	0.7	0.6 *	14
15	0.4	1.4	37	9.4	37	22	35	47	15	4.6	0.7	0.6	15
16	0.3	1.7	33	9.0	36	54	34	50	14	4.5	0.7	0.6	16
17	0.3	1.9	28	9.0	35	87	37 E	48	13	4.1	0.7	0.6	17
18	0.3 *	1.7	26	8.7	35	84	37 E	46	14	3.7	0.9	0.6	18
19	0.2	1.9	22	9.0	34	75	37 #	45	14	3.5	0.7	0.6	19
20	0.2	2.2	21	14	32	70	37	45	32	3.5	0.8	0.6	20
21	0.3	2.4	20	19	30	65	39	37	24	3.3	0.8	0.8	21
22	0.4	2.5 *	18	21	29	63	41	34	20	3.3	0.8	0.9	22
23	0.4	2.4	17	19	28	65	42	33	17	3.1	0.8	0.6	23
24	0.4	2.1	16	18	28	62	44	30	15	2.8	0.8 *	0.6	24
25	0.4	2.0	15	18	27	59	45	26	12	2.6	0.8	0.6	25
26	0.4	2.0	15	21	26	55	46	25	12	2.5	0.8	0.6	26
27	0.5	2.0	14	41	24	51	47	24	12	2.3	1.1	0.6	27
28	1.0	2.1	13	117	24	50	46	22	11	2.2	1.4	0.6	28
29	1.0	2.0	12	274		47	46	21	11 *	2.2	0.9	0.6	29
30	1.0	2.0	12	209		45	44	20	11	2.1	0.9	0.6	30
31	1.0		12	149		44		20		2.2	0.9		31
MEAN	0.4	1.6	20.4	35.7	46.4	43.0	39.6	43.7	17.0	5.4	1.0	0.6	MEAN
MAX.	1.0	2.5	45	274	117	87	47	82	32	10	2.2	0.9	MAX.
MIN.	0.2	1.0	2.5	8.7	24	22	34	20	11	2.1	0.7	0.5	MIN.
AC. FT.	27	97	1253	2193	2577	2642	2358	2690	1010	329	64	35	AC. FT.

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

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
21.2	640	5.5	6	20	1815	0.2	2.21	10	18	0830	15280

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
41 38 02	122 44 50	NE27 44N 8W	680	5.59	12/23/64	OCT 52-OCT 54 JUN 57-DATE	OCT 52-OCT 54 JUN 57-DATE	1957		0.00	LOCAL

Station located 180 ft. above Old Fort Jones-Yreka Highway bridge, 5.1 mi. NE of Fort Jones. Tributary to Scott River. Stage-discharge relationship affected by ice at times. Upstream diversion with approximate flow of one cfs May through October. Drainage area is 69.8 sq. mi. Station discontinued Oct. 1, 1967.

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1967	F41510	BROWNS CREEK NEAR DOUGLAS CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.8	7.9	141	52	710 *	105	131	138	81 *	32	13	7.9	1
2	5.3	7.9	360	50	564	104	126	138	115	32	13	8.1	2
3	5.3	8.1 *	306	48	481	100	126	151	104	30	12	8.4	3
4	5.3	8.1	761	47	430	94	125	184 *	97	30	13	8.6	4
5	5.5	8.1	1070	46	408	89	131	212	97	29	12	8.1	5
6	5.5	12	427 *	42	395	84	227	221	91	28	12	7.9 *	6
7	5.8	13	258	42	392	82	282	268	86	26	12	7.9	7
8	5.5	11	177	40	369	81	258	342	81 *	26	12 *	7.6	8
9	5.3	10	148	40	348	80	246	317	78	26	12	7.6	9
10	5.3	9.7	151	39 *	339	105	272	251	74	24	12	7.9	10
11	5.3	11	148	39	322	108	277	207	71	24 *	12	8.1	11
12	5.3	18	162	38	322	101	263	175	67	23	11	8.4	12
13	5.8 *	23	201	38	317	94	270	156	64	22	10	7.9	13
14	6.2	46	203	38	277	94	253	149	60	22	10	7.9	14
15	6.9	55	169	37	230	104	232	151	58	21	10	8.1	15
16	7.2	86	141	37	192	398	207	156	56	22	9.7	8.1	16
17	7.6	39	129	36	175	408	214	151	52	21	9.4	8.4	17
18	7.6	26	116	35	166	320	191	139	50	20	9.4	10	18
19	7.6	49	109	36	153	270	186	129	50	19	8.9	9.7	19
20	7.2	241	102	50	142	296	169 *	122	49 *	19	8.9	8.9	20
21	7.6	166 *	96	153	136 *	322	156	116	46	19	8.9	8.6	21
22	8.1	113	88	133	128	301	164	109	44	17	9.2	8.4	22
23	8.4	79	82	106	124	293	164	102	43	16	8.9	8.4	23
24	8.4	61	77	120	121	246	179	98	42	16	8.6	8.6	24
25	8.4	51	72	100	120	212	191	92	40	16	8.6	8.6	25
26	8.1	46	67	105	115	182	192	88	39	15	9.4	8.9	26
27	8.1	43	63	138	109	160	191	83	37	14	10	8.9	27
28	8.1	57	60	427	106	151	177	80	37	16	9.2	8.9	28
29	8.1	84	58	1150		144	160	78	35	15	8.1	8.9	29
30	8.1	80	56	936		139	146	76	33	14	7.6	9.2	30
31	8.1		54	883		141		74		13	7.4		31
MEAN	6.8	49.0	195	164	275	174	197	153	62.6	21.5	10.3	8.4	MEAN
MAX.	8.4	241	1070	1150	710	408	282	342	115	32	13	10	MAX.
MIN.	5.3	7.9	54	35	106	80	125	74	33	13	7.4	7.6	MIN.
AC. FT.	418	2915	12000	10080	15250	10730	11710	9427	3723	1323	631	502	AC. FT.

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

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
109	1910	14.05	12	4	2245	4.9	7.86	10	3	2400	78710

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
40 38 35	122 58 46	SE10 32N 10W	3950 E	16.60	2/18/58	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL

Station located at private bridge, 2.1 mi. W of Douglas City. Tributary to Trinity River. Stage-discharge relationship affected by ice at times. Drainage area is 71.4 sq. mi. Station discontinued Oct. 1, 1967

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1967	F41540	WEAVER CREEK NEAR DOUGLAS CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.7	2.1	96	22	410	61	111	61	74 *	22	5.3	3.0	1
2	0.7	2.2	205	21	291 *	58	106	58	71	20	5.3	3.0	2
3	0.7	2.2 *	133	20	222	53	105	58	65	18	4.8	2.6	3
4	0.6	2.2	429	20	189	47	105	61 *	63	18	4.8	3.6	4
5	0.6	2.3	241	20	188	45	106	70	71	18	4.6	2.7	5
6	0.6	3.8	121	19	189	43	152	73	74	16	4.6	1.9 *	6
7	0.6	3.0	92	18	183	43	143	98	73	15	4.8	1.8	7
8	0.6	2.7	65	16	178	43	126	122	70 *	15	4.8 *	1.7	8
9	0.6	2.6	86	16	173	43	116	123	68	14	4.6	2.5	9
10	0.9	2.6	131	16 *	172	74	132	110	66	14	4.4	3.0	10
11	0.8	3.2	111	16	165	84	143	96	65	13	4.4	2.7	11
12	0.9	8.0	106	17	167	71	129	82	58	12 *	4.4	2.1	12
13	1.0 *	15	130	17	164	66	122	76	56	11	4.4	2.7	13
14	1.1	33	118	17	146	66	116	78	54	11	4.4	2.1	14
15	1.2	24	100	18	136	76	108	99	54	10 *	4.2	2.2	15
16	1.3	27	82	18	125	268	99	121	56	11	3.6	2.5	16
17	1.3	11	68	17	121	177	108	130	57	11	3.4	2.9	17
18	1.3	8.0	60	17	119	147	96	128	57	10	3.4	3.8	18
19	1.3	44	54	18	114	132	90	217	56	9.6	3.4	3.2	19
20	1.4	103	49	58	99	179	88 *	133	50 *	9.2	3.0	3.4	20
21	1.5	96	45	163	90 *	157	86	138	44	8.0	2.9	2.7 *	21
22	1.7	56	40	105	80	142	116	138	39	8.0	3.0	2.3	22
23	1.7	22	38	66	78	132	117	134	38	8.0	2.9	2.6	23
24	1.7	15	34	86	74	121	111	125	36	7.7	2.6	2.1	24
25	1.7	11	31	68	74	114	104	116	32	7.3	2.3	1.9	25
26	1.8	10	29	110	68	105	99	111	30	7.3	3.2	1.8 *	26
27	1.9	8.8	26	171	63	96	92	105	27	6.3	4.2	2.1	27
28	2.1	16	24	545	63	90	84	98	27	6.3	3.8	1.8	28
29	2.2	25	24	682		80	76	92	24	6.7	3.6	1.5	29
30	2.2	19	24	433		84	66	84	23	6.0	3.0	2.2	30
31	2.1		22	549		98		74		5.7	2.9		31
MEAN	1.2	19.4	90.8	109	148	96.6	108	101	52.6	11.5	3.9	2.5	MEAN
MAX.	2.2	103	429	682	410	268	152	138	74	22	5.3	3.8	MAX.
MIN.	0.6	2.1	22	16	63	43	66	58	23	5.7	2.3	1.5	MIN.
AC. FT.	77	1152	5581	6702	8214	3940	6450	6186	3130	704	240	148	AC. FT.

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

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
62.0	1483	10.97	1	29	0400	0.6	5.71	10	4	2400	44520

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
40 40 13	122 56 33	SE36 33N 10W	3980 E	12.72	12/22/64	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL

Station located 0.2 mi. below State Highway 299 bridge, 1.2 mi. N of Douglas City, 4.2 mi. S of Weaverville. Tributary to Trinity River. Drainage area is 48.4 sq. mi.

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1967	F42100	NORTH FORK TRINITY RIVER NEAR HELENA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	24	29	1040	207	1500 *	372	455	292	432	375	67	32	1
2	24	29	1020	198	1140	377	467	305	405	353	65	31	2
3	24	29	746	192	936	364	458	345	377	323	63	30	3
4	24	29	1650	189	855	342	444	416 *	400	301	62	30	4
5	24	29	2020	188	865	328	438	501	464	275	60	30	5
6	24	41	770	177	880	320	482	550	485	244	59	29	6
7	24	37	669 *	170	890	318	516	794	482	216	57	28 *	7
8	24	33	536	166	870	320	520	1180	488 *	206	56 *	28	8
9	24	31	500	161	830	328	520	1180	494	191	53	29	9
10	24	30	654	156 *	850	383	516	900	479	186	51	28	10
11	24	33	676	154	830	369	494	706	494	191 *	48	29	11
12	24	82	778	152	860	358	498	599	470	188	47	28	12
13	24 *	207	1210	161	850	361	452	557	430	184	47	29	13
14	24	417	1020	172	758	350	441	599	430	169	46	28	14
15	23	500	806	178	671	353	421	838	458	156	46	28	15
16	23	672	669	186	599	1420 *	394	1200	488	148	44	28	16
17	23	276	573	182	560	1580	397	1380	530	139	43	28	17
18	25	186	514	174	557	1110	380	1260	544	129	42	32	18
19	24	444	477	174	530	875	364	1160	560	111	41	30	19
20	26	945	455	210	498	838	350 *	1280	527 *	101	40	30	20
21	29	634	417	480	464 *	838	340	1450	455	99	40	29	21
22	27	461 *	390	530	449	830	340	1410	377	98	40	28	22
23	29	367	362	350	435	855	340	1260	345	100	39	28	23
24	27	299	332	357	424	758	337	1060	350	95	37	28	24
25	25	256	310	485	416	675	342	842	389	87	37	27	25
26	26 *	246	288	589	394	606	342	770	410	81	40	26	26
27	27	242	343	794	380	554	342	734	380	76	40	27	27
28	28	314	248	1450	375	520	328	690	353	73	40	26	28
29	29	598	238	3720		485	316	645	364	74	38	26	29
30	29	523	227	2210		467	301	560	380	74	35	26	30
31	29		215	1910		449		476		71	34		31
MEAN	25	267	650	530	702	584	411	837	441	165	47	28	MEAN
MAX.	29	945	2020	3720	1500	1580	520	1450	560	375	67	32	MAX.
MIN.	23	29	215	152	375	318	301	292	345	71	34	26	MIN.
AC. FT.	1557	15900	39970	32570	39010	35910	24470	51450	26260	10140	2890	1638	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE 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
391	5222	15.10	1	29	0845	23	6.64	10	15	1200	281800

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
40 46 56	123 07 39	SW21 34N 11W	35800	27.93	12/22/64	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL

Station located 1.0 mi. above mouth, 0.6 mi. N of Helena. Stage-discharge relationship affected by ice at times. Drainage area is 151 sq. mi.

TABLE B-3.(Continued)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1967	F44500	BIG CREEK NEAR HAYFORK

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.4	2.8	83	18 E	190 *	42	70	44	24	15	0.4	0.4	1
2	0.7	2.6 *	134	18 E	154	42	63	45	26	16	0.0	1.5	2
3	0.4	3.5	86	18 E	128	41	61	47	24	17	0.4	0.8	3
4	0.4	3.3	453	18 E	123	39	58	52 *	23	17	0.9	1.2	4
5	0.4	3.8	484	18 E	125	38	55	60	23	16	1.0	0.7	5
6	0.6	6.2	106 *	19 E	128	37	63	66	22	15	0.2	0.7 *	6
7	0.3	5.8	54	18 E	136	36	63	85	21	15	0.6	0.0	7
8	0.3	5.5	30	18 E	130	34	64	102	20	14	1.0 *	0.0	8
9	0.4	4.8	29	18 E	128	35	68	99	19	13	0.8	0.0	9
10	0.1	4.8	36	18 *	125	41	68	93	18	11	0.0	0.1	10
11	0.4	5.2	36	18	118	39	66	81	18	1.7 #	0.0	0.0	11
12	0.3	9.2	54	18	118	38	63	73	17	1.6	0.0	0.0	12
13	0.6 *	10	100	17	113	38	61	66	17	1.5	0.0	0.0	13
14	0.7	11	109	18	104	37	60	63	16	1.4	0.0	0.0	14
15	0.8	10	78	18	89	38	56	64	15	1.4	0.0	0.0	15
16	1.2	19	58	15	81	128 *	53	66	15	1.2	0.0	0.0	16
17	0.8	7.8	48	12	75	110	55	66	14	1.2	0.0	0.6	17
18	0.7	6.6	42	12	72	95	52	64	13	1.1	0.3	0.0	18
19	0.9	16	36	12	70	86	50	60	13	1.1	0.7	0.2	19
20	0.8	52	33	36	63	86	50 *	58	12 #	1.0	0.6	0.0	20
21	1.0	43 *	29	141	56 *	91	48	50	10 E	0.9 #	0.4	0.1	21
22	1.1	20	26	73	52	95	48	46	8.3 #	0.8	0.0	0.0	22
23	1.2	14	23	56	50	108	48	43	7.3	0.4	0.0	0.2	23
24	0.7	14	21	60	49	97	48	35	7.3	0.3	0.2	0.0	24
25	0.7	9.7	18	52	49	89	50	33	7.3	0.6	0.7	0.0	25
26	0.8	9.7	16	56	47	79	50	31	7.1	0.8	1.1	0.0	26
27	1.0	10	16	123	44	77	50	30	7.1	0.7	2.0	0.1	27
28	1.4	22	17 E	245	43	83	49	29	6.8	0.4	0.4	2.9	28
29	1.7	48	17 E	380		75	48	28	9.3	0.6	0.4	3.9	29
30	2.6	29	18 E	233		75	46	24	14	0.7	0.3	2.6	30
31	2.8		18 E	215		73		23		0.6	0.0		31
MEAN	0.8	13.6	74.5	64.2	95.0	65.2	56.1	55.7	15.2	5.5	0.4	0.5	MEAN
MAX.	2.8	52	484	380	190	128	70	102	26	17	2.0	3.9	MAX.
MIN.	0.1	2.6	16	12	43	34	46	23	6.8	0.3	0.0	0.0	MIN.
AC. FT.	52	812	4578	3949	5276	4011	3340	3423	901	335	25	32	AC. FT.

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

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
37.2	498	7.95	12	4	2200	0.0					26740

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
40 33 11	123 08 35	SE7 31N 11W	1610E	11.75	12/22/64	FEB 57-DATE	FEB 57-DATE	1957		0.00	LOCAL

Station located 30 ft. above Hayfork-Douglas City Highway bridge, 2 mi. E of Hayfork. Tributary to South Fork Trinity River via Hayfork Creek. About 5 cfs diverted above station. Drainage area is 27.1 sq. mi. Station discontinued Oct. 1, 1967.

APPENDIX C

GROUND WATER MEASUREMENTS

INTRODUCTION

This appendix contains ground water level measurements from 50 wells for the period October 1, 1966, through September 30, 1967. It also contains a table which summarizes the measurements. Wells in the network are continuously reviewed and, when conditions dictate, replacement wells are located and measured.

There are nine ground water basins in the North Coastal Region for which data are reported.

Two numbering systems are used by the Department to facilitate the processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of Northern California covered by this report comprises the North Coastal Region No. 1. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas as follows:

1 - 01 . 00

Region (North Coastal Region)

Ground Water Basin (Smith River Plain)

Subbasin or Subarea (No subbasins or subareas exist in the North Coastal Region)

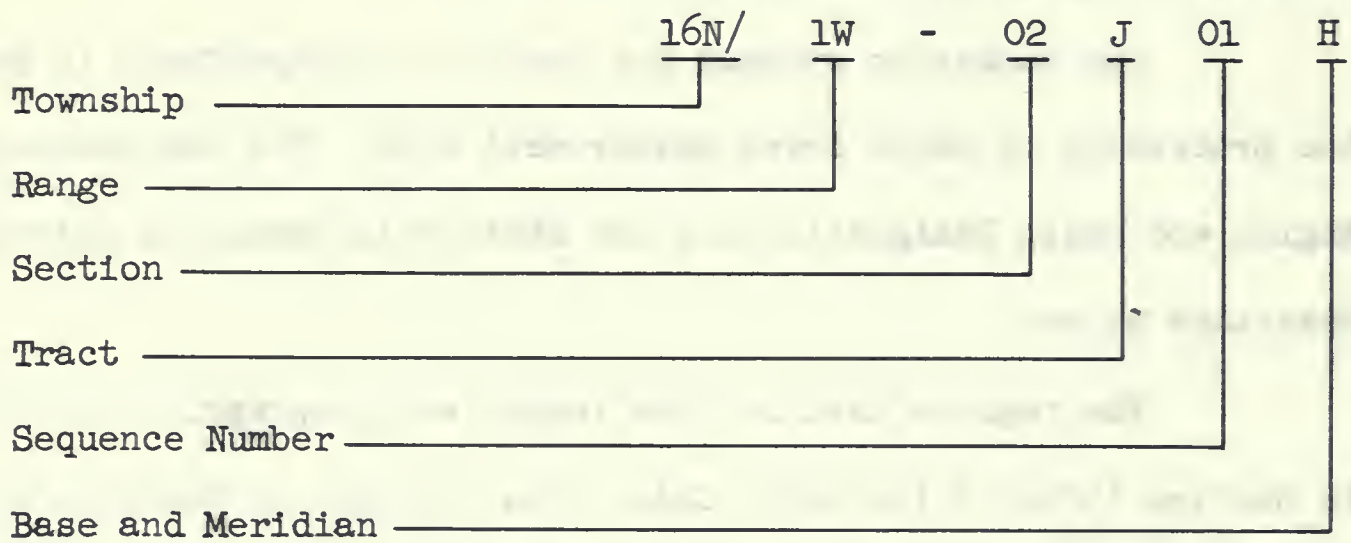
The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey.

A section is divided into 40-acre tracts as follows:

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

Sequence numbers in a tract are generally assigned in chronological order.

The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 16 North, Range 1 West, Tract J of Section 2, located in the Humboldt Base and Meridian.

O R E G O N
N E V A D A
P A C I F I C O C E A N
01.00
Crescent City
DEL NORTE
Klamath River
04.00
Yreko
03.00
02.00
Clear L.
Goose L.
S I S K I Y O U
M O D O C
05.00
04.00
Alturos
River
07.00
08.00
Trinity
I
HUMBOLDT
Pit
Trinity Res.
Eureka
Weaverville
09.00
Shasta Res.
L A S S E N
TRINITY
S H A S T A
Eagle L
10.00
06.00
Redding
Susanville
Eel
T E H A M A
Red Bluff
Lake Almanor
Sacramento
River
P L U M A S
Quincy
11.00
12.00
River
B U T T E
MENDOCINO
G L E N N
Willows
Feather
Oroville
Oroville
13.00
Ukiah
L A K E
COLUSA
Caluso
SUTTER
Clear L.
Russian
Lakeport
River
YOLO
Woodland
SONOMA
Lake Berryessa
NAPA
Santa Rosa
Napa
SOLANO
Fairfield
MARIN
San Rafael
Martinez
CONTRA COSTA
Oakland
SAN FRANCISCO
N
LEGEND
BOUNDARY OF GROUND WATER BASIN
BOUNDARY OF NORTH COASTAL AREA
I
INDEX OF
GROUND WATER BASINS
01.00 Smith River Plain
02.00 Klamath River Basin
03.00 Butte Valley
04.00 Shasta Valley
05.00 Scott River Valley
06.00 Hayfork Valley
07.00 Hoopa Valley
08.00 Mad River Valley
09.00 Eureka Plain
10.00 Eel River Valley
11.00 Round Valley
12.00 Laytonville Valley
13.00 Little Lake Valley
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
NORTHERN DISTRICT
GROUND WATER BASINS
1966 - 1967
SCALE OF MILES
0
30
60

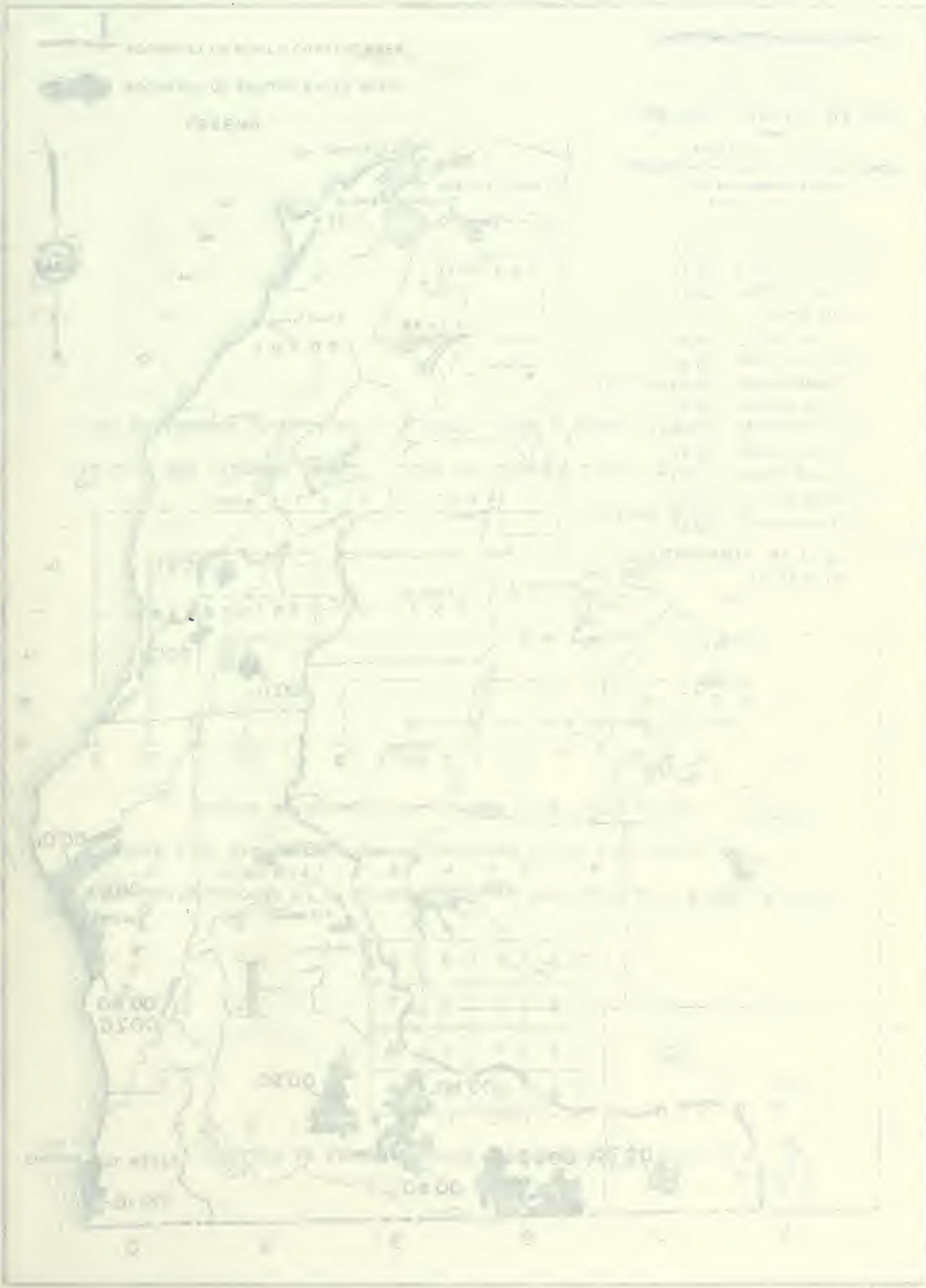


TABLE C-1

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

Ground Water Basin		Average Change Spring 1966 to Spring 1967 in feet	Measuring Agency	Number of Wells Reported		
Name	Number			Monthly 1966-67	Fall 1966	Spring 1967
NORTH COASTAL REGION						
Smith River Plain	1-01.00	-0.6	DWR		6	6
Butte Valley	1-03.00	+1.4	DWR		8	8
Shasta Valley	1-04.00	-0.6	DWR		7	7
Scott River Valley	1-05.00	+0.2	DWR		6	6
Mad River Valley	1-08.00	+1.6	DWR		2	2
Eel River Valley	1-10.00	+2.2	DWR		4	4
Round Valley	1-11.00	-0.6	DWR		6	6
Laytonville Valley	1-12.00	-2.1	DWR		4	4
Little Lake Valley	1-13.00	+2.5	DWR		7	7

DWR - Department of Water Resources

TABLE C-2 GROUND WATER LEVELS AT WELLS

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

State Well Number - Refer to the explanation presented on pages 39 and 40 in the Introduction.

Ground Surface Elevation - The numbers in this column are the elevation in feet above mean sea level (USGS) of the ground surface at the well.

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

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

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

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

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

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

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

Agency Supplying Data - Each of these numbers is the code number for the agency supplying data for that measurement. The Department of Water Resources is the sole agency supplying ground water level measurement data for this report. It has been assigned an agency code number of 5050.

TABLE C-2

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
SMITH RIVER PLAIN 1-01.00					
16N/01W-02J01 H	127.0	10-04-66	23.4	103.6	5050
		4-12-67	18.7	108.3	5050
16N/01W-17K01 H	48.0	10-04-66	22.2	25.8	5050
		4-12-67	14.7	33.3	5050
17N/01W-02P01 H	31.0	10-04-66	22.2	8.8	5050
		4-12-67	12.1	18.9	5050
17N/01W-03E01 H	14.0	10-04-66	14.5	-0.5	5050
		4-12-67	6.4	7.6	5050
17N/01W-15M02 H	21.0	10-04-66	16.7	4.3	5050
		4-12-67	6.2	14.8	5050
18N/01W-26P01 H	38.0	10-04-66	16.9	21.1	5050
		4-12-67	13.4	24.6	5050
BUTTE VALLEY 1-03.00					
45N/02W-03A01 M	4260.0	10-03-66	33.2	4226.8	5050
		4-13-67	(6)		5050
46N/01E-06N01 M	4242.0	10-03-66	25.5	4216.5	5050
		4-13-67	20.5	4221.5	5050
46N/02W-25R02 M	4256.0	10-03-66	37.0	4219.0	5050
		4-13-67	24.8	4231.2	5050
47N/01W-14B01 M	4234.0	10-03-66	11.3	4222.7	5050
		4-13-67	9.7	4224.3	5050
47N/01W-17R01 M	4240.0	10-03-66	10.1	4229.9	5050
		4-13-67	(9)		5050
47N/01W-19L01 M	4238.0	10-03-66	6.1	4231.9	5050
		4-13-67	4.3	4233.7	5050
47N/01W-27B01 M	4233.0	10-03-66	10.0	4223.0	5050
		4-13-67	6.6	4226.4	5050
48N/01W-26N01 M	4244.0	10-03-66	22.2	4221.8	5050
		4-13-67	14.2	4229.8	5050
MAD RIVER VALLEY 1-08.00					
06N/01E-06H01 H	151.0	10-05-66	14.7	136.3	5050
		4-12-67	7.6	143.4	5050
06N/01E-29P01 H	25.0	10-05-66	11.0	14.0	5050
		4-12-67	4.5	20.5	5050
EEL RIVER VALLEY 1-10.00					
02N/01W-08B01 H	34.0	10-05-66	21.9	12.1	5050
		4-11-67	9.1	24.9	5050
03N/01W-18D01 H	15.0	10-05-66	2.5	12.5	5050
		4-11-67	0.5	14.5	5050
03N/01W-34J01 H	53.0	10-05-66	34.5	18.5	5050
		4-11-67	28.0	25.0	5050
03N/02W-26R01 H	12.0	10-05-66	10.7	1.3	5050
		4-11-67	4.0	8.0	5050
ROUND VALLEY 1-11.00					
22N/12W-04B01 M	1351.0	10-05-66	15.0	1336.0	5050
		4-11-67	4.4	1346.6	5050
22N/12W-06L03 M	1370.0	10-05-66	5.6	1364.4	5050
		4-11-67	-11.0	1381.0	5050
22N/13W-12R01 M	1400.0	10-05-66	30.4	1369.6	5050
		4-11-67	7.2	1392.8	5050
23N/12W-31N01 M	1388.0	10-05-66	9.7	1378.3	5050
		4-11-67	-8.2	1396.2	5050
23N/13W-36C03 M	1410.0	10-05-66	29.2	1380.8	5050
		4-11-67	7.7	1402.3	5050
23N/13W-36Q01 M	1403.0	10-05-66	20.6	1382.4	5050
		4-11-67	4.9	1398.1	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SHASTA VALLEY 1-04.00					
42N/05W-20J01 M	2882.0	10-03-66	5.0	2877.0	5050
		4-13-67	5.0	2877.0	5050
42N/06W-10J01 M	2835.0	10-03-66	13.4	2821.6	5050
		4-13-67	12.1	2822.9	5050
43N/06W-22A01 M	2665.0	10-03-66	16.1	2648.9	5050
		4-13-67	11.5	2653.5	5050
44N/05W-34H01 M	2637.0	10-04-66	24.4	2612.6	5050
		4-12-67	30.4	2606.6	5050
44N/06W-10F01 M	2537.0	10-04-66	18.0	2519.0	5050
		4-12-67	14.3	2522.7	5050
45N/05W-29B01 M	2635.0	10-04-66	18.3	2616.7	5050
		4-12-67	18.2	2616.8	5050
45N/06W-19E01 M	2538.0	10-04-66	20.8	2517.2	5050
		4-12-67	16.7	2521.3	5050
SCOTT RIVER VALLEY 1-05.00					
42N/09W-02A02 M	2746.0	10-04-66	12.7	2733.3	5050
		4-13-67	8.2	2737.8	5050
42N/09W-08C03 M	2836.0	10-04-66	50.7	2785.3	5050
		4-13-67	41.1	2794.9	5050
42N/09W-27N01 M	2930.0	10-04-66	7.3	2922.7	5050
		4-13-67	3.3	2926.7	5050
43N/09W-23F01 M	2728.0	10-04-66	6.4	2721.6	5050
		4-13-67	1.7	2726.3	5050
43N/09W-24F01 M	2735.0	10-04-66	12.2	2722.8	5050
		4-13-67	9.7	2725.3	5050
44N/09W-28P01 M	2711.0	10-04-66	15.2	2695.8	5050
		4-13-67	11.0	2700.0	5050
LAYTONVILLE VALLEY 1-12.00					
21N/14W-30M01 M	1688.0	10-05-66	18.8	1669.2	5050
		4-11-67	7.1	1680.9	5050
21N/15W-01L02 M	1682.0	10-05-66	17.8	1664.2	5050
		4-11-67	7.0	1675.0	5050
21N/15W-12M02 M	1630.0	10-05-66	17.2	1612.8	5050
		4-11-67	7.8	1622.2	5050
21N/15W-24A01 M	1653.0	10-05-66	13.5	1639.5	5050
		4-11-67	6.5	1646.5	5050
LITTLE LAKE VALLEY 1-13.00					
18N/13W-08L01 M	1340.0	10-06-66	10.3	1329.7	5050
		4-10-67	2.7	1337.3	5050
18N/13W-16M01 M	1380.0	10-06-66	36.7	1343.3	5050
		4-10-67	(1)27.0	1353.0	5050
18N/13W-17J01 M	1370.0	10-06-66	23.4	1346.6	5050
		4-10-67	7.6	1362.4	5050
18N/13W-18E01 M	1365.0	10-06-66	28.6	1336.4	5050
		4-10-67	20.7	1344.3	5050
18N/13W-20H03 M	1385.0	10-06-66	20.4	1364.6	5050
		4-10-67	0.3	1384.7	5050
19N/13W-32F01 M	1347.0	10-06-66	15.7	1331.3	5050
		4-10-67	1.9	1345.1	5050
19N/13W-32L02 M	1350.0	10-06-66	13.0	1337.0	5050
		4-10-67	5.7	1344.3	5050

APPENDIX D

SURFACE WATER QUALITY

INTRODUCTION

This appendix presents surface water quality data collected during the period from October 1, 1966, through September 30, 1967. The data were collected from 27 stream stations in the North Coastal Area.

At the time of field sampling, dissolved oxygen, pH, and temperature measurements are made and gage height and time are noted. Comments on local conditions are noted in field books which are available in the files of the Department of Water Resources.

The mineral constituents were determined in accordance with methods presented in the U. S. Geological Survey Water-Supply Paper 1454, "Methods for Collection and Analyses of Water Samples". The analysis for trace elements is in accordance with the U. S. Geological Survey Water-Supply Paper 1540-B, "Concentration Method for the Spectro-Chemical Determination of Minor Elements in Water".

Each station in this appendix has been assigned a station number. The numbering system is described in Appendix B, "Surface Water Measurements". A sequential number (formerly employed) follows each station name for reference.

TABLE D-1

SAMPLING STATION DATA AND INDEX

North Coastal Area

Station	Station Number	Location MDB & M	Beginning of Record	Frequency of Sampling	Analyses on Page
Bear River at Capetown (7b)	F75100.00	01N/03W-13[a]	MAY 1964	Semiannually	53, 69
Black Butte River near Covelo (5h)	F63200.00	23N/11W-28	NOV. 1964	Monthly	53, 69
Eel River above Outlet Creek (5d)	F61329.50	21N/13W-31	APR. 1958	Monthly	54, 67. 69
Eel River at Scotia (6)	F61100.00	02N/01E-31[a]	APR. 1951	Monthly	54, 67, 69
Eel River at South Fork (5)	F61154.50	01S/02E-26[a]	APR. 1951	Monthly	55, 69
Eel River, Middle Fork above Black Butte River (5g)	F63120.00	23N/11W-28	FEB. 1965	Monthly	55, 71
Eel River, Middle Fork at Dos Rios (5c)	F63010.00	21N/13W-06	APR. 1958	Monthly	56, 67, 70
Eel River, South Fork near Miranda (7)	F64100.00	03S/04E-30[a]	APR. 1951	Monthly	56, 72
Klamath River above Hamburg Reservoir Site (1c)	F31470.00	46N/10W-14	DEC. 1958	Bi-Monthly	57, 69
Klamath River at Orleans (2c)	F31220.01	11N/06E-31[a]	JAN. 1964	Monthly	57, 67, 70
Klamath River below Iron Gate Dam (1f)	F31600.00	47N/05W-17	DEC. 1961	Monthly	58, 67, 70
Klamath River near Klamath (3)	F31100.00	13N/01E-24[a]	APR. 1951	Monthly	58, 67, 70
Klamath River near Seiad Valley (2b)	F31430.00	46N/12W-03	DEC. 1958	Bi-Monthly	59, 67, 70
Mad River near Arcata (6a)	F51100.00	06N/01E-15[a]	NOV. 1958	Monthly	59, 67, 70
Mattole River at Petrolia (7a)	F71100.00	02S/02W-11[a]	JAN. 1959	Monthly	60, 70
Mill Creek near Covelo (5e)	F63050.00	22N/12W-22	FEB. 1965	Monthly	60, 71
Outlet Creek near Longvale (5b)	F61350.00	20N/14W-01	MAY 1958	Monthly	61, 71
Redwood Creek at Orick (3b)	F55100.00	10N/01E-04[a]	NOV. 1958	Monthly	61, 71
Salmon River at Somesbar (2a)	F34100.00	11N/06E-02[a]	NOV. 1958	Semiannually	62, 71
Scott River near Fort Jones (1b)	F25250.00	44N/10W-29	DEC. 1958	Monthly	62, 71
Shasta River near Yreka (1a)	F21050.00	46N/07W-24	DEC. 1958	Monthly	63, 71
Smith River near Crescent City (3a)	F01300.00	16N/01E-10[a]	APR. 1951	Monthly	63, 72
Trinity River at Hoopa (4)	F41090.00	08N/05E-31[a]	APR. 1951	Monthly	64, 67, 72
Trinity River at Lewiston (4a)	F41640.00	33N/08E-17	APR. 1951	Monthly	64, 72
Trinity River near Burnt Ranch (4b)	F41376.00	05N/07E-19[a]	APR. 1958	Bi-Monthly	65, 72
Van Duzen River near Bridgeville (5a)	F65300.00	01N/02E-12[a]	APR. 1958	Monthly	65, 72
Williams Creek near Covelo (5f)	F63105.00	23N/12W-24	FEB. 1965	Monthly	66, 72

a-HB & M

Except as indicated, location is referenced to Mt. Diablo Base and Meridian (MDB & M).

TABLE D-2 MINERAL ANALYSES OF SURFACE WATER

An explanation of column headings follows:

LAB - 5000 U. S. Geological Survey

5050 Department of Water Resources

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

Q - The instantaneous discharge measured in cubic feet per second (cfs).

DO - The dissolved oxygen content in milligrams per liter is listed first and is followed by the percent saturation.

EC - The specific conductance in micromhos at 25° centigrade.

TDS - Gravimetric determination of total dissolved solids in milligrams per liter.

SUM - Determined by addition of analyzed constituents.

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
BEAR RIVER AT CAPETOWN (7b)																				
F75100.00			11.5	49 F	7.7	183	23	4.0	7.4	1.1	0.0	68	26	3.8	1.1	--	0.1	8.6	134	74
05/10/67	5050	135.0	100		7.6		1.15	.33	.32	.03		1.12	.54	.11	.02				108	18
0750	5050						63	18	17	2		63	30	6	1					
F75100.00			9.3	72 F	8.2	344	50	6.2	12	1.8	0.0	155	41	5.8	0.2	--	0.1	--	154	151
09/12/67	5050	3.0	106		8.3		2.50	.51	.52	.05		2.54	.85	.16					193	24
1300	5050						70	14	15	1		72	24	5						
BLACK BUTTE RIVER NEAR COVELO (5h)																				
F63200.00		13.02	9.0	66 F	8.4	420	68	8.8	7.4	1.6	2.0	146	--	2.0	1.2	--	0.0	--	--	206
10/12/66	5050	5.0	101		8.0		3.39	.72	.32	.04	.07	2.39		.06	.02					83
1240	5050																			
F63200.00		13.72	9.8	52 F	8.1	268	40	5.4	4.5	1.1	0.0	83	--	2.0	1.6	--	0.1	--	--	122
11/16/66	5050	1000.0	93		7.6		2.00	.44	.20	.03		1.36		.06	.03					54
1530	5050																			
F63200.00		14.75	11.6	45 F	8.0	134	20	3.4	2.8	1.3	0.0	66	--	0.7	0.8	--	0.0	--	--	64
12/14/66	5050	1500.0	101		8.0		1.00	.28	.12	.03		1.08		.02	.01					10
1440	5050																			
F63200.00		10.90	11.7	41 F	8.2	221	33	4.6	4.2	0.7	0.0	102	--	1.2	1.0	--	0.0	--	--	102
01/18/67	5050	75.0	96		7.8		1.65	.38	.18	.02		1.67		.03	.02					19
1540	5050																			
F63200.00		10.95	10.9	50 F	8.1	153	23	3.5	2.9	0.6	0.0	74	--	0.7	0.6	--	0.1	--	--	72
02/08/67	5050	500.0	101		7.5		1.15	.29	.13	.02		1.21		.02	.01					12
1650	5050																			
F63200.00		10.97	10.0	48 F	8.2	206	31	4.5	4.1	0.7	0.0	97	--	1.0	0.8	--	0.0	--	--	96
03/08/67	5050	130.0	90		7.7		1.55	.37	.18	.02		1.59		.03	.01					17
1600	5050																			
F63200.00		10.97	11.8	46 F	8.1	166	24	4.2	3.8	0.6	0.0	80	--	0.6	0.1	--	0.0	--	--	78
04/05/67	5050	450.0	104		7.7		1.20	.35	.17	.02		1.31		.02						13
1315	5050																			
F63200.00		10.97	11.5	46 F	7.9	124	18	3.3	2.7	0.6	0.0	64	9.0	0.6	0.3	--	0.0	8.5	66	58
05/10/67	5050	350.0	101		7.8		.90	.27	.12	.02		1.05	.19	.02					74	6
1535	5050						69	21	9	2		83	15	2						
F63200.00		10.27	9.3	61.5F	8.0	134	20	2.8	2.8	0.6	0.0	65	--	0.4	0.2	--	0.0	--	--	62
06/07/67	5050	350.0	99		7.8		1.00	.23	.12	.02		1.07		.01						9
1500	5050																			
F63200.00			7.7	78.0F	8.3	260	--	--	4.9	--	0.0	116	--	1.8	0.1	--	0.0	--	--	127
07/19/67	5050	35.0	97		8.2				.21			1.90		.05						32
1405	5050																			
F63200.00		15.56	8.0	80.0F	8.6	287	--	--	5.6	--	5.0	114	39	2.0	0.2	--	0.0	--	--	138
08/09/67	5050	12.0	104		8.4				.24		.17	1.87	.81	.06						36
1245	5050																			
F63200.00			8.8	76 F	8.3	354	52	6.8	6.3	1.1	0.0	139	58	2.8	0.0	--	0.1	--	159	158
09/13/67	5050	4.8	109		8.4		2.59	.56	.27	.03		2.28	1.21	.08					195	44
1330	5050						75	16	8	1		64	34	2						

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER													
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
							MILLIGRAMS PER LITER													
EEL RIVER ABOVE OUTLET CREEK (5d)																				
F61329.50			12.3	61 F	8.3	279	31	8.9	11	1.4	2.0	114	--	7.5	0.8	--	0.3	--	--	114
10/12/66	5050		128		8.4		1.55	.73	.48	.04	.07	1.87		.21	.01					17
1020	5050																			
F61329.50			9.9	56 F	7.9	167	20	5.8	5.5	1.3	0.0	73	--	2.5	5.1	--	0.3	--	--	74
11/16/66	5050	390.0	97		7.4		1.00	.48	.24	.03		1.20		.07	.08					14
1225	5050																			
F61329.50			11.2	50 F	8.1	128	15	5.0	4.2	1.3	0.0	66	--	1.8	1.4	--	0.1	--	--	58
12/14/66	5050	1000.0	102		7.8		.75	.41	.18	.03		1.08		.05	.02					4
1215	5050																			
F61329.50			12.4	47 F	8.2	222	26	7.8	7.0	0.9	0.0	112	--	0.3	0.1	30	0.1	--	--	97
01/18/67	5050	100.0	108		8.1		1.30	.64	.30	.02		1.84		.01						5
1235	5050																			
F61329.50			11.5	50 F	8.1	128	15	4.9	3.9	0.7	0.0	66	--	1.4	0.5	--	0.1	--	--	58
02/08/67	5050	750.0	105		7.6		.75	.40	.17	.02		1.08		.04	.01					4
1450	5050																			
F61329.50			10.6	54 F	8.1	197	24	6.8	6.2	0.8	0.0	100	--	2.5	0.5	--	0.1	--	--	88
03/08/67	5050	450.0	101		7.8		1.20	.56	.27	.02		1.64		.07	.01					6
1300	5050																			
F61329.50			11.4	47 F	8.1	136	16	5.4	4.5	0.7	0.0	73	--	1.2	0.0	--	0.1	--	--	62
04/05/67	5050	1000.0	100		7.5		.80	.44	.20	.02		1.20		.03						2
1020	5050																			
F61329.50			11.4	50.5F	7.8	132	16	5.0	4.0	0.7	0.0	71	9.0	1.2	0.7	--	0.1	10	90	60
05/10/67	5050	1500.0	104		7.8		.80	.41	.17	.02		1.16	.19	.03	.01				81	2
1355	5050						57	29	12	1		83	14	2	1					
F61329.50			9.9	66 F	8.0	156	19	5.5	4.3	0.8	0.0	83	--	1.3	0.5	--	0.1	--	--	70
06/07/67	5050	350.0	109		8.2		.95	.45	.19	.02		1.36		.04	.01					2
1215	5050																			
F61329.50			9.3	80.0F	8.5	219	--	--	8.8	--	4.0	94	--	4.4	0.2	--	0.2	--	--	85
07/19/67	5050	20.0	118		8.4				.38		.13	1.54		.12						2
1210	5050																			
F61329.50			8.2	81.0F	8.5	231	--	--	9.4	--	4.0	100	20	5.1	0.2	--	0.4	--	--	96
08/09/67	5050	5.1	105		8.4				.41		.13	1.64	.42	.14						8
1115	5050																			
F61329.50			8.6	72 F	8.2	246	27	7.8	10	1.4	0.0	104	27	5.0	0.0	--	0.4	--	106	100
09/13/67	5050	3.0	101		8.2		1.35	.64	.44	.04		1.71	.56	.14					130	15
1130	5050						55	26	18	2		71	23	6						
EEL RIVER AT SCOTIA (6)																				
F61100.00			14.0	66 F	8.4	339	39	14	11	1.5	2.0	174	25	7.0	1.3	0.2	0.1	11	--	155
10/11/66	5050	117.0	149		8.4		1.95	1.15	.48	.04	.07	2.85	.52	.20	.02				197	9
1445	5050						54	32	13	1	2	78	14	5	1					
F61100.00		13.94	9.9	57 F	7.6	248	30	7.8	8.9	1.4	0.0	95	36	7.0	3.9	0.1	0.1	11	--	107
11/15/66	5050	7730.0	95		7.9		1.50	.64	.39	.04		1.56	.75	.20	.06				153	29
1400	5050						58	25	15	2		61	29	8	2					
F61100.00		15.79	10.6	56 F	7.8	171	18	7.9	5.5	2.1	0.0	79	15	3.8	0.3	0.1	0.0	11	--	78
12/13/66	5050	17000.0	101		7.6		.90	.65	.24	.05		1.30	.31	.11					102	13
1415	5050						49	35	13	3		76	18	6						
F61100.00		10.80	12.0	51 F	8.3	249	31	8.9	7.0	1.0	1.0	123	22	4.1	0.3	0.1	0.1	11	--	114
01/17/67	5050	8270.0	107		8.1		1.55	.73	.30	.03	.03	2.02	.46	.12					147	12
1510	5050						59	28	11	1	1	77	17	5						
F61100.00			9.3	56 F	8.1	199	24	7.7	6.0	0.9	0.0	97	19	3.0	0.2	0.2	0.1	12	--	92
02/07/67	5050	10800.0	88		14.3		1.20	.63	.26	.02		1.59	.40	.08					121	13
1530	5050						57	30	12	1		77	19	4						
F61100.00		11.87	10.6	50 F	8.3	221	28	8.1	6.3	0.9	2.0	114	17	3.4	0.1	0.1	0.1	12	--	104
03/07/67	5050	3920.0	94		8.0		1.40	.67	.27	.02	.07	1.87	.35	.10					134	7
1615	5050						59	28	11	1	3	78	15	4						
F61100.00		15.11	11.3	51 F	8.2	156	18	6.9	5.5	1.2	0.0	82	11	2.5	0.1	0.1	0.1	12	--	74
04/04/67	5050	14600.0	101		7.9		.90	.57	.24	.03		1.34	.23	.07					98	7
1505	5050						52	33	14	2		82	14	4						
F61100.00		14.03	10.2	58 F	8.0	148	19	5.4	3.9	0.9	0.0	78	9.0	1.1	0.9	0.1	0.0	9.6	100	70
05/09/67	5000	10100.0	99		7.8		.95	.44	.17	.02		1.28	.19	.03	.01				88	6
1355	5050						60	28	11	1		85	13	2	1					
F61100.00		17.31	9.7	61 F	8.2	185	24	6.5	5.2	0.9	0.0	98	11	1.8	0.3	0.2	0.0	10	--	86
06/07/67	5000	3070.0	98		7.9		1.20	.53	.23	.02		1.61	.23	.05					108	6
0630	5050						61	27	12	1		85	12	3						
F61100.00		9.03	9.1	66 F	8.3	311	40	10	8.0	1.1	1.0	156	19	4.0	0.2	0.2	0.1	10	--	141
07/19/67	5000	2630.0	97		8.1		2.00	.82	.35	.03	.03	2.56	.40	.11					170	12
0820	5050						63	26	11	1	1	83	13	4						
F61100.00		10.20	7.0	66 F	8.6	324	44	13	9.0	1.6	4.0	172	21	5.8	0.2	0.1	0.1	11	--	164
08/09/67	5000	206.0	75		7.8		2.20	1.07	.39	.04	.13	2.82	.44	.16					194	17
0715	5050						59	29	11	1	4	79	12	5						
F61100.00		8.34	8.4	61 F	8.4	339	44	12	9.8	1.3	5.0	171	21	7.2	2.8	0.2	0.1	8.7	184	162
09/13/67	5050	148.0	85		8.0		2.20	.99	.43	.03	.17	2.80	.44	.20	.05				196	14
0800	5050						60	27	12	1	5	77	12	5	1					

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLO	EC LAB / FLO	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS / SUM	TH / NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER						MILLIGRAMS PER LITER			
											PERCENT REACTANCE VALUE									
EEL RIVER AT SOUTH FORK (5)																				
F61154.50			10.0	69 F	7.9	377	49	13	8.8	1.6	0.0	188	--	6.3	--	--	0.1	--	--	176
10/12/66	5050	33.0	111		7.8		2.45	1.07	.38	.04		3.08		.18						22
0850	5050																			
F61154.50		14.30	9.9	56 F	7.9	223	26	6.9	5.8	1.2	0.0	88	--	5.0	--	--	0.3	--	--	94
11/16/66	5050	7430.0	95		7.3		1.30	.57	.25	.03		1.44		.14						22
0840	5050																			
F61154.50			11.2	51 F	8.1	143	18	5.2	3.8	1.5	0.0	73	--	1.5	--	--	0.0	--	--	66
12/14/66	5050	10100.0	101		8.0		.90	.43	.17	.04		1.20		.04						6
0920	5050																			
F61154.50		9.09	11.4	46 F	7.7	240	30	8.0	6.0	1.0	0.0	118	--	3.4	--	--	0.0	--	--	108
01/18/67	5050	824.0	96		7.8		1.50	.66	.26	.03		1.94		.10						11
1005	5050																			
F61154.50			11.6	47 F	8.0	161	21	5.5	4.3	0.7	0.0	84	--	1.5	--	--	0.1	--	--	75
02/08/67	5050	6180.0	99		7.6		1.05	.45	.19	.02		1.38		.04						6
1100	5050																			
F61154.50			10.7	51 F	8.1	226	29	7.7	5.9	0.9	0.0	113	--	2.6	--	--	0.0	--	--	104
03/08/67	5050	930.0	97		7.6		1.45	.63	.26	.02		1.85		.07						12
0945	5050																			
F61154.50			11.5	46 F	8.2	140	17	5.6	4.1	0.9	0.0	74	--	1.3	--	--	0.1	--	--	66
04/05/67	5050	7830.0	97		7.7		.85	.46	.18	.02		1.21		.04						6
0730	5050																			
F61154.50			10.9	55.5F	8.0	131	17	4.9	3.3	0.6	0.0	71	8.0	1.0	0.7	--	0.0	8.1	74	62
05/10/67	5050	9800.0	104		7.8		.85	.40	.14	.02		1.16	.17	.03	.01				78	4
1025	5050						60	28	10	1		85	12	2	1					
F61154.50			9.8	61 F	8.1	167	22	5.6	4.0	0.7	0.0	86	--	1.0	--	--	0.0	--	--	78
06/07/67	5050	2060.0	100		7.9		1.10	.46	.17	.02		1.41		.03						8
0820	5050																			
F61154.50			8.7	70.0F	8.3	279	--	--	6.6	--	0.0	139	--	3.8	--	--	0.1	--	--	124
07/19/67	5050	2060.0	98		8.1				.29			2.28		.11						10
0915	5050																			
F61154.50			8.1	69.0F	8.4	323	--	--	7.5	--	4.0	153	--	4.5	--	--	0.1	--	--	152
08/09/67	5050	100.0	90		8.0				.33		.13	2.51		.13						20
0815	5050																			
F61154.50			8.0	68 F	8.0	342	47	11	8.6	1.6	0.0	168	31	6.0	0.0	--	0.3	--	151	162
09/13/67	5050	90.0	88		8.0		2.35	.90	.37	.04		2.76	.64	.17					188	24
0840	5050						64	25	10	1		77	18	5						
EEL RIVER, MIDDLE FORK ABOVE BLACK BUTTE RIVER (5g)																				
F63120.00		10.89	10.2	68 F	8.4	439	52	11	20	1.8	4.0	124	--	40	0.8	--	0.3	--	--	174
10/12/66	5050	5.0	117		8.4		2.59	.90	.87	.05	.13	2.03		1.13	.01					66
1220	5050																			
F63120.00		13.16	10.7	50 F	8.0	129	17	3.7	3.1	1.2	0.0	53	--	2.6	2.6	--	0.1	--	--	58
11/16/66	5050	6500.0	99		7.4		.85	.30	.13	.03		.87		.07	.04					15
1510	5050																			
F63120.00			11.7	44 F	8.1	99	14	3.4	2.1	1.7	0.0	51	--	1.0	1.1	--	0.0	--	--	49
12/14/66	5050	1500.0	100		7.8		.70	.28	.09	.04		.84		.03	.02					7
1500	5050																			
F63120.00			12.0	41 F	8.0	143	19	3.8	3.8	0.6	0.0	68	--	2.7	0.6	--	0.0	--	--	63
01/18/67	5050	75.0	99		7.8		.95	.31	.17	.02		1.12		.08	.01					7
1530	5050																			
F63120.00			11.7	44 F	7.9	107	15	3.1	2.1	0.6	0.0	54	--	1.0	0.8	--	0.0	--	--	50
02/08/67	5050	900.0	100		7.7		.75	.25	.09	.02		.89		.03	.01					6
1700	5050																			
F63120.00			10.6	48 F	8.1	140	19	3.7	3.7	0.6	0.0	68	--	2.6	0.9	--	0.0	--	--	62
03/08/67	5050	275.0	96		7.4		.95	.30	.16	.02		1.12		.07	.01					6
1610	5050																			
F63120.00			12.1	42 F	8.1	119	16	3.5	3.2	0.5	0.0	65	--	1.4	0.0	--	0.0	--	--	54
04/05/67	5050	1000.0	101		7.4		.80	.29	.14	.01		1.07		.04						1
1330	5050																			
F63120.00			12.3	43.6F	8.0	89	13	2.3	1.8	0.6	0.0	46	5.0	0.6	0.5	--	0.0	6.7	52	42
05/10/67	5050	3000.0	105		8.0		.65	.19	.08	.02		.75	.10	.02	.01				53	5
1600	5050						69	20	9	2		85	11	2	1					
F63120.00			10.0	58 F	7.8	88	12	2.2	1.3	0.6	0.0	44	--	0.8	0.2	--	0.0	--	--	39
06/07/67	5050	400.0	102		7.7		.60	.18	.06	.02		.72		.02						3
1505	5050																			
F63120.00			8.0	75.0F	8.4	228	--	--	6.8	--	3.0	93	--	8.9	0.1	--	0.1	--	--	100
07/19/67	5050	60.0	98		8.2				.30		.10	1.53		.25						19
1400	5050																			
F63120.00			7.7	78.0F	8.6	295	--	--	10	--	4.0	109	27	16	0.1	--	0.2	--	--	124
08/09/67	5050	17.0	98		8.4				.44		.13	1.79	.56	.45						28
1255	5050																			
F63120.00			8.7	76 F	8.3	393	45	8.3	15	1.8	0.0	128	40	27	0.0	--	0.3	--	172	146
09/13/67	5050	8.5	108		8.4		2.25	.68	.65	.05		2.10	.83	.76					200	41
1340	5050						62	19	18	1		57	22	21						

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
EEL RIVER, MIDDLE FORK AT DOS RIOS (5c)																				
F63010.00			10.6	67 F	8.4	406	50	14	13	2.0	4.0	126	--	20	0.9	--	0.1	--	--	182
10/12/66	5050	18.0	118		8.4		2.50	1.15	.57	.05	.13	2.07		.56	.01					72
1045	5050																			
F63010.00			10.4	51 F	8.0	177	25	5.3	3.4	1.3	0.0	93	--	2.4	2.4	--	0.1	--	--	84
11/16/66	5050	10000.0	96		7.4		1.25	.44	.15	.03		1.53		.07	.04					8
1245	5050																			
F63010.00			11.8	46 F	8.1	128	17	4.7	3.9	0.8	0.0	66	--	1.7	1.0	--	0.0	--	--	62
12/14/66	5050	7500.0	102		8.1		.85	.39	.17	.02		1.08		.05	.02					8
1245	5050																			
F63010.00			12.6	40 F	8.2	201	25	7.1	5.0	0.7	0.0	100	--	2.7	0.6	--	0.0	--	--	92
01/18/67	5050	400.0	100		8.0		1.25	.58	.22	.02		1.64		.08	.01					10
1325	5050																			
F63010.00			11.7	46 F	8.1	156	20	5.7	3.7	0.7	0.0	80	--	1.0	0.0	--	0.0	--	--	74
02/08/67	5050	1940.0	101		7.9		1.00	.47	.16	.02		1.31		.03						9
1515	5050																			
F63010.00			10.5	49 F	8.2	211	26	7.5	5.3	0.8	0.0	104	--	2.4	0.6	--	0.0	--	--	96
03/08/67	5050	500.0	94		7.7		1.30	.62	.23	.02		1.71		.07	.01					11
1315	5050																			
F63010.00			12.0	44 F	8.2	169	20	7.2	4.4	0.6	0.0	88	--	0.8	0.0	--	0.0	--	--	80
04/05/67	5050	2110.0	101		7.8		1.00	.59	.19	.02		1.44		.02						8
1045	5050																			
F63010.00			12.1	46.5F	8.1	117	16	4.3	2.5	0.8	0.0	65	7.0	0.6	0.9	--	0.0	8.5	88	58
05/10/67	5050	2880.0	105		7.8		.80	.35	.11	.02		1.07	.15	.02	.01				72	5
1415	5050						63	27	9	2		86	12	2	1					
F63010.00			9.9	61 F	8.1	136	18	4.3	2.9	0.7	0.0	69	--	0.8	1.0	--	0.0	--	--	62
06/07/67	5050	1160.0	103		7.8		.90	.35	.13	.02		1.13		.02	.02					6
1245	5050																			
F63010.00			9.0	77.0F	8.5	265	--	--	6.3	--	5.0	111	--	4.8	--	--	0.1	--	--	124
07/19/67	5050	82.0	111		8.4				.27		.17	1.82		.14						25
1230	5050																			
F63010.00			9.8	78.0F	8.6	296	--	--	7.7	--	5.0	114	34	7.6	0.2	--	0.1	--	--	132
08/09/67	5050	45.0	122		8.4				.33		.17	1.87	.71	.21						30
1130	5050																			
F63010.00			9.6	74 F	8.2	324	41	10	10	1.4	0.0	115	50	12	0.0	--	0.2	--	173	143
09/13/67	5050	19.0	115		8.4		2.05	.82	.44	.04		1.89	1.04	.34					181	49
1200	5050						61	24	13	1		58	32	10						
EEL RIVER, SOUTH FORK NEAR MIRANDA (7)																				
F64100.00			12.2	57 F	8.2	336	40	13	10	1.5	0.0	188	--	7.3	0.9	--	0.1	--	--	154
10/12/66	5050	38.0	118		8.2		2.00	1.07	.44	.04		3.08		.21	.01					0
0825	5050																			
F64100.00			10.1	55 F	7.0	180	20	6.1	6.4	1.5	0.0	69	--	3.6	6.4	--	0.0	--	--	75
11/16/66	5050	2800.0	96		7.8		1.00	.50	.28	.04		1.13		.10	.10					19
0915	5050																			
F64100.00		8.00	10.8	52 F	8.0	120	13	4.3	5.2	1.2	0.0	60	--	2.9	0.1	--	0.0	--	--	50
12/14/66	5050	5100.0	99		7.5		.65	.35	.23	.03		.98		.08						1
0950	5050																			
F64100.00			12.1	42 F	8.3	190	22	7.0	6.8	1.0	2.0	94	--	3.9	0.2	--	0.1	--	--	84
01/18/67	5050	435.0	97				1.10	.58	.30	.03	.07	1.54		.11						4
1035	5050																			
F64100.00		5.90	11.6	48 F	8.0	137	14	5.0	5.7	0.7	0.0	69	--	2.6	0.6	--	0.0	--	--	56
02/08/67	5050	1880.0	100		7.3		.70	.41	.25	.02		1.13		.07	.01					0
1120	5050																			
F64100.00		4.28	10.5	49 F	8.3	179	20	6.6	6.8	0.9	2.0	88	--	3.1	0.7	--	0.0	--	--	77
03/08/67	5050	425.0	92		7.5		1.00	.54	.30	.02	.07	1.44		.09	.01					2
1030	5050																			
F64100.00			10.9	48 F	8.1	122	13	4.7	5.5	0.9	0.0	72	--	2.5	0.2	--	0.1	--	--	52
04/05/67	5050	3248.0	95		7.4		.65	.39	.24	.02		1.18		.07						0
0815	5050																			
F64100.00			10.8	56.5F	8.1	148	16	5.6	5.9	0.8	0.0	76	7.0	2.9	0.2	--	0.0	12	82	63
05/10/67	5050	1330.0	104		7.6		.80	.46	.26	.02		1.25	.15	.08					88	1
1105	5050						52	30	17	1		84	10	5						
F64100.00		4.24	10.0	62 F	8.2	189	22	7.0	7.0	1.1	0.0	101	--	3.1	0.5	--	0.2	--	--	84
06/07/67	5050	376.0	103		7.9		1.10	.58	.30	.03		1.66		.09	.01					1
0905	5050																			
F64100.00		3.42	9.2	70.0F	8.4	252	--	--	9.0	--	4.0	124	--	5.1	0.2	--	0.0	--	--	111
07/19/67	5050	114.0	103		8.2				.39		.13	2.03		.14						3
0950	5050																			
F64100.00		3.22	7.8	73.0F	8.3	259	--	--	9.5	--	0.0	136	3.3	6.1	0.4	--	0.1	--	--	113
08/09/67	5050	77.0	90		8.2				.41			2.23	.07	.17	.01					2
0845	5050																			
F64100.00		3.25	8.4	68 F	8.1	275	32	10	10	1.5	0.0	146	14	7.2	0.9	--	0.1	--	129	121
09/13/67	5050	82.0	93		8.1		1.60	.82	.44	.04		2.39	.29	.20	.01				147	2
0910	5050						55	28	15	1		83	10	7						

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
KLAMATH RIVER ABOVE HAMBURG RESERVOIR SITE (1c)																				
F31470.00			10.8	55 F	8.3	221	14	9.1	18	2.8	2.0	110	--	5.6	5.7	--	0.1	--	--	72
10/31/66	5050		107		7.7		.70	.75	.78	.07	.07	1.80		.16	.09					0
1500	5050																			
F31470.00			12.4	39 F	7.9	235	14	9.0	21	2.5	0.0	109	--	5.3	5.6	--	0.0	--	--	72
01/04/67	5050		99		7.5		.70	.74	.91	.06		1.79		.15	.09					0
1600	5050																			
F31470.00			12.0	46 F	7.9	226	16	9.3	18	1.9	0.0	112	--	5.3	1.8	--	0.0	--	--	78
03/09/67	5050		106		8.2		.80	.76	.78	.05		1.84		.15	.03					0
1615	5050																			
F31470.00			12.4	50 F	7.7	252	17	9.8	20	2.2	0.0	106	31	5.0	1.4	--	0.1	16	167	83
05/02/67	5050		115		8.3		.85	.81	.87	.06		1.74	.64	.14	.02				154	0
1150	5050						33	31	34	2		69	25	6	1					
F31470.00			9.0	77.0F	8.2	216	--	--	16	--	0.0	99	--	5.8	0.9	--	0.2	--	--	74
07/05/67	5050		113		8.4				.70			1.62		.16	.01					0
1340	5050																			
F31470.00			8.3	69.5F	8.2	220	14	8.2	19	3.0	0.0	98	21	5.5	3.8	--	0.2	--	166	68
09/06/67	5050		98		8.3		.70	.67	.83	.08		1.61	.44	.16	.06				123	0
0910	5050						31	29	36	4		71	19	7	3					
KLAMATH RIVER AT ORLEANS (2c)																				
F31220.01		9.16	10.8	54 F	8.0	150	13	6.6	7.1	1.4	0.0	72	--	2.2	--	--	0.1	--	--	60
11/14/66	5050	8300.0	101		7.4		.65	.54	.31	.04		1.18		.06						1
1320	5050																			
F31220.01		13.27	12.6	46 F	8.0	129	11	6.6	5.4	1.1	0.0	66	--	2.3	--	--	0.0	--	--	54
12/12/66	5050	26600.0	108		7.3		.55	.54	.23	.03		1.08		.06						0
1100	5050																			
F31220.01			13.1	42 F	7.9	185	14	8.0	12	1.6	0.0	92	--	3.4	--	--	0.0	--	--	68
01/16/67	5050	6000.0	106		7.6		.70	.66	.52	.04		1.51		.10						0
1015	5050																			
F31220.01			13.9	45 F	8.1	174	18	8.7	5.3	0.9	0.0	93	--	1.3	--	--	0.0	--	--	81
02/06/67	5050	15300.0	117		7.6		.90	.72	.23	.02		1.53		.04						5
1255	5050																			
F31220.01			11.9	46 F	8.1	199	21	10	3.9	0.5	0.0	114	--	1.5	--	--	0.0	--	--	94
03/06/67	5050	6810.0	102		7.8		1.05	.82	.17	.01		1.87		.04						1
1200	5050																			
F31220.01			11.9	47 F	8.2	163	16	8.1	6.7	1.2	0.0	87	--	2.2	--	--	0.0	--	--	74
04/03/67	5050	8700.0	103		7.7		.80	.67	.29	.03		1.43		.06						3
1015	5050																			
F31220.01			11.9	52.5F	7.8	122	11	5.7	6.0	1.1	0.0	64	7.0	1.6	0.8	--	0.0	12	82	51
05/08/67	5050	19400.0	110		7.6		.55	.47	.26	.03		1.05	.15	.05	.01				77	0
1210	5050						42	36	20	2		83	12	4	1					
F31220.01			10.9	59 F	7.9	135	11	6.0	7.4	0.9	0.0	67	--	1.6	--	--	0.0	--	--	52
06/05/67	5050	14200.0	110		7.8		.55	.49	.32	.02		1.10		.05						0
1045	5050																			
F31220.01			8.9	72.0F	8.3	164	--	--	6.9	--	0.0	85	--	3.3	--	--	0.0	--	--	61
07/17/67	5050	2480.0	103		8.0				.30			1.39		.09						0
1010	5050																			
F31220.01			9.0	71.0F	8.2	189	--	--	9.4	--	0.0	93	--	6.0	--	--	0.0	--	--	61
08/07/67	5050	2200.0	103		8.1				.41			1.53		.17						0
0945	5050																			
F31220.01			9.1	67.0F	7.9	224	16	8.3	14	2.6	0.0	101	15	5.2	1.4	--	0.0	--	116	74
09/11/67	5050	2000.0	100		8.0		.80	.68	.61	.07		1.66	.31	.15	.02				112	0
0945	5050						37	31	28	3		78	14	7	1					

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TOS SUM	TH NCH
KLAMATH RIVER BELOW IRON GATE DAM (1f)																				
F31600.00			9.2	63 F	8.1	207	12	7.3	18	3.0	0.0	96	--	4.0	5.7	0.1	0.0	--	--	60
10/03/66	5050	1310.0	102		8.0		.60	.60	.78	.08		1.57		.11	.09					0
1140	5050																			
F31600.00		3.84	7.2	55 F	8.0	188	12	6.7	16	2.6	0.0	91	--	2.5	6.1	--	0.1	--	--	58
10/31/66	5050	1690.0	73		7.3		.60	.55	.70	.07		1.49		.07	.10					0
1340	5050																			
F31600.00		5.17	9.8	48 F	7.9	201	13	7.0	18	2.6	0.0	87	--	5.6	8.4	--	0.0	--	--	62
12/06/66	5050	3420.0	91		7.3		.65	.58	.78	.07		1.43		.16	.14					0
1510	5050																			
F31600.00			11.3	39 F	7.6	212	12	7.2	20	2.6	0.0	90	--	4.0	6.9	--	0.0	--	--	60
01/04/67	5050	3050.0	92		7.3		.60	.59	.87	.07		1.48		.11	.11					0
1440	5050																			
F31600.00		5.09	11.0	40 F	8.0	189	15	6.9	15	1.5	0.0	93	--	2.8	2.7	--	0.1	--	--	66
02/18/67	5050	3310.0	91		7.4		.75	.57	.65	.04		1.53		.08	.04					0
1455	5050																			
F31600.00		3.88	11.0	43 F	7.6	194	14	6.6	17	2.0	0.0	88	--	4.1	2.2	--	0.0	--	--	62
03/09/67	5050	1790.0	95		7.7		.70	.54	.74	.05		1.44		.12	.04					0
1425	5050																			
F31600.00		3.85	9.8	48 F	7.6	213	17	7.8	18	2.3	0.0	95	--	4.1	1.6	--	0.0	--	--	74
04/04/67	5050	1760.0	91		7.3		.85	.64	.78	.06		1.56		.12	.03					0
1055	5050																			
F31600.00			11.9	49 F	7.5	232	15	8.2	20	2.2	0.0	88	35	4.0	1.8	--	0.0	15	160	71
05/02/67	5050	3560.0	111		8.2		.75	.67	.87	.06		1.44	.73	.11	.03				144	0
1015	5050						32	29	37	3		62	32	5	1					
F31600.00			11.0	64.5F	7.7	189	11	6.6	16	1.8	0.0	76	--	3.0	--	--	0.0	--	--	54
06/12/67	5050	869.0	123		8.4		.55	.54	.70	.05		1.25		.08						0
1520	5050																			
F31600.00			8.5	66.0F	7.9	192	--	--	16	--	0.0	79	--	4.4	1.4	--	0.1	--	--	61
07/06/67	5050	694.0	98		7.5				.70			1.30		.12	.02					0
0700	5050																			
F31600.00			9.7	74.5F	7.8	182	--	--	15	--	0.0	82	14	4.1	--	--	0.0	--	--	58
08/01/67	5050	1050.0	122		8.5				.65			1.34	.29	.12						0
1245	5050																			
F31600.00			8.8	71.0F	8.3	201	12	6.9	18	2.8	0.0	86	21	4.5	3.0	--	0.2	--	140	58
09/05/67	5050	1310.0	107		8.2		.60	.57	.78	.07		1.41	.44	.13	.05				111	0
1330	5050						30	28	39	3		69	22	6	2					
KLAMATH RIVER NEAR KLAMATH (3)																				
F31100.00		3.16	14.0	68.0F	8.4	234	21	9.7	13	2.0	5.0	112	16	5.2	1.3	0.2	0.1	18	--	92
10/10/66	5050	256.0	153		8.4		1.05	.80	.57	.05	.17	1.84	.33	.15	.02				146	0
1500	5050						43	32	23	2	7	73	13	6	1					
F31100.00		3.51	10.2	52 F	7.6	169	17	7.1	7.3	1.3	0.0	80	15	3.6	2.1	0.0	0.0	18	--	72
11/14/66	5050	3090.0	92		8.0		.85	.58	.32	.03		1.31	.31	.10	.03				111	7
1710	5050						48	33	18	2		75	18	6	2					
F31100.00		13.01	11.1	50 F	8.0	116	12	5.7	3.4	0.8	0.0	61	7.0	1.0	0.1	0.0	0.0	13	--	54
12/13/66	5050	39500.0	98		7.4		.60	.47	.15	.02		1.00	.15	.03					73	4
0900	5050						48	38	12	2		85	13	3						
F31100.00		5.62	12.0	40 F	8.1	186	17	8.1	8.7	1.3	0.0	94	9.0	3.8	1.5	0.0	0.1	19	--	76
01/17/67	5050	7400.0	92		7.6		.85	.67	.38	.03		1.54	.19	.11	.02				115	0
0840	5050						44	35	20	2		83	10	6	1					
F31100.00		12.14	12.0	44 F	8.1	150	16	7.2	4.3	0.8	0.0	83	7.0	1.6	0.5	0.2	0.0	14	--	70
02/07/67	5050	37800.0	98		7.4		.80	.59	.19	.02		1.36	.15	.05	.01				92	2
0840	5050						50	37	12	1		87	10	3	1					
F31100.00		7.47	11.3	47.0F	8.1	165	17	7.7	5.6	0.9	0.0	88	10	2.6	0.5	0.1	0.0	16	--	74
03/07/67	5050	12900.0	96		7.6		.85	.63	.24	.02		1.44	.21	.07	.01				104	2
0750	5050						49	36	14	1		83	12	4	1					
F31100.00		9.61	11.4	48 F	8.2	148	16	7.0	4.6	0.7	0.0	83	8.0	1.4	0.1	0.1	0.0	15	--	69
04/04/67	5050	14500.0	98		7.6		.80	.58	.20	.02		1.36	.17	.04					94	1
0805	5050						50	36	13	1		87	11	3						
F31100.00		12.34	10.8	55 F	7.8	113	13	5.3	4.0	0.9	0.0	63	6.0	1.2	0.5	0.2	0.0	12	80	54
05/09/67	5000	33100.0	101		7.6		.65	.44	.17	.02		1.03	.12	.03	.01				74	3
1005	5050						51	34	13	2		87	10	3	1					
F31100.00		9.51	10.0	60 F	8.0	133	13	6.0	5.7	1.0	0.0	68	10	1.4	0.6	0.1	0.0	12	--	57
06/06/67	5000	20600.0	100		7.7		.65	.49	.25	.03		1.12	.21	.04	.01				83	1
0800	5050						46	35	18	2		81	15	3	1					
F31100.00		4.55	8.5	74 F	8.3	185	19	7.1	5.6	1.2	2.0	88	9.0	2.9	0.7	0.1	0.0	14	--	76
07/18/67	5000	5000.0	98		7.9		.95	.58	.24	.03	.07	1.44	.19	.08	.01				105	1
0915	5050						53	32	13	2	4	80	11	4	1					
F31100.00		4.03	8.0	63 F	8.2	198	22	7.2	7.3	1.4	0.0	100	10	4.4	0.5	0.1	0.1	15	--	84
08/08/67	5000	2960.0	82		8.0		1.10	.59	.32	.04		1.64	.21	.12	.01				117	2
0830	5050						54	29	16	2		83	11	6	1					
F31100.00		3.96	8.4	66 F	8.2	214	21	9.0	11	1.5	0.0	111	13	5.1	2.4	0.2	0.0	27	140	89
09/12/67	5050	2820.0	90		7.9		1.05	.74	.48	.04		1.82	.27	.14	.04				145	0
0830	5050						45	32	21	2		80	12	6	2					

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
KLAMATH RIVER NEAR SEIAD VALLEY (2b)																				
F31430.00		4.53	11.4	56 F	8.2	227	15	9.5	18	2.7	0.0	117	--	5.8	5.3	--	0.1	--	--	76
10/31/66	5050	2050.0	114		8.0		.75	.78	.78	.07		1.92		.16	.09					0
1535	5050																			
F31430.00			12.4	40 F	8.1	228	15	9.4	19	2.3	0.0	110	--	5.0	5.1	--	0.1	--	--	76
01/04/67	5050	4170.0	101		7.7		.75	.77	.83	.06		1.80		.14	.08					0
1640	5050																			
F31430.00		5.50	11.7	46.5F	7.9	216	17	9.9	14	1.5	0.0	112	--	4.2	1.6	--	0.0	--	--	83
03/09/67	5050	3280.0	104		8.2		.85	.81	.61	.04		1.84		.12	.03					0
1650	5050																			
F31430.00			12.4	53.5F	7.5	248	18	10	17	2.0	0.0	111	27	4.3	1.2	--	0.0	14	162	86
05/02/67	5050	5020.0	120		8.2		.90	.82	.74	.05		1.82	.56	.12	.02				148	0
1225	5050						36	33	29	2		72	22	5	1					
F31430.00			9.2	74.0F	8.3	200	--	--	10	--	0.0	96	--	4.3	0.7	--	0.2	--	--	76
07/05/67	5050	1710.0	112		8.4				.44			1.57		.12	.01					0
1420	5050																			
F31430.00			9.5	69.5F	8.0	226	15	8.9	18	2.7	0.0	103	19	6.2	3.9	--	0.2	--	161	74
09/06/67	5050	1550.0	111		8.2		.75	.73	.78	.07		1.69	.40	.17	.06				124	0
1025	5050						32	31	33	3		73	17	7	3					
MAD RIVER NEAR ARCATA (6a)																				
F51100.00		4.23	10.4	82 F	8.5	233	34	5.7	4.5	1.0	4.0	120	--	1.9	--	--	0.0	--	--	108
10/10/66	5050	56.0	131		8.1		1.70	.47	.20	.03	.13	1.97		.05						3
1320	5050																			
F51100.00		6.40	9.5	58 F	7.6	181	25	4.6	5.6	1.3	0.0	75	--	3.4	--	--	0.0	--	--	82
11/14/66	5050	680.0	93		7.6		1.25	.38	.24	.03		1.23		.10						21
1525	5050																			
F51100.00		8.91	10.8	51 F	7.8	110	16	3.5	3.1	2.0	0.0	56	--	1.7	--	--	0.0	--	--	54
12/12/66	5050	2810.0	97		7.6		.80	.29	.13	.05		.92		.05						8
1330	5050																			
F51100.00		5.14	11.7	47 F	8.1	174	25	4.4	3.9	0.8	0.0	73	--	2.2	--	--	0.1	--	--	80
01/16/67	5050	276.0	99		7.8		1.25	.36	.17	.02		1.20		.06						20
1315	5050																			
F51100.00		7.52	11.2	48 F	8.0	114	16	3.0	3.1	0.8	0.0	57	--	1.5	--	--	0.0	--	--	52
02/06/67	5050	1660.0	96		7.2		.80	.25	.13	.02		.93		.04						6
1500	5050																			
F51100.00		5.10	11.1	54 F	8.0	165	24	4.1	4.1	0.9	0.0	82	--	2.2	--	--	0.0	--	--	77
03/06/67	5050	300.0	103		7.6		1.20	.34	.18	.02		1.34		.06						10
1450	5050																			
F51100.00		7.78	11.6	49 F	7.8	108	14	3.3	3.5	0.9	0.0	55	--	1.4	--	--	0.0	--	--	48
04/03/67	5050	2071.0	101		7.4		.70	.27	.15	.02		.90		.04						3
1230	5050																			
F51100.00		7.91	10.7	52 F	7.6	98	13	2.7	2.6	0.9	0.0	50	6.0	0.9	0.7	--	0.0	6.8	76	44
05/08/67	5050	2200.0	97		7.4		.65	.22	.11	.02		.82	.12	.03	.01				58	3
1625	5050						65	22	11	2		84	12	3	1					
F51100.00		5.45	10.3	60 F	8.0	147	21	3.5	4.0	0.9	0.0	77	--	1.4	--	--	0.0	--	--	67
06/05/67	5050	330.0	103		8.0		1.05	.29	.17	.02		1.26		.04						4
1315	5050																			
F51100.00		4.46	9.5	71.0F	8.3	216	--	--	5.0	--	0.0	113	--	2.8	--	--	0.1	--	--	93
07/17/67	5050	80.0	107		8.2				.22			1.85		.08						1
1300	5050																			
F51100.00		4.12	9.3	70.0F	8.3	215	--	--	4.8	--	0.0	114	--	2.6	--	--	0.0	--	--	100
08/07/67	5050	54.0	104		8.1				.21			1.87		.07						7
1220	5050																			
F51100.00		4.33	9.5	70.0F	8.2	210	32	4.8	4.8	0.9	0.0	111	12	2.8	0.0	--	0.1	--	88	100
09/11/67	5050	82.0	106		8.0		1.60	.39	.21	.02		1.82	.25	.08					112	9
1300	5050						72	18	9	1		85	12	4						

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER: TDS SUM	TH NCH
MATTOLE RIVER AT PETROLIA (7a)																				
F71100.00		4.38	10.9	68 F	8.2	290	41	6.5	9.0	1.2	0.0	135	--	4.2	--	--	0.0	--	--	129
10/11/66	5050	27.0	119		7.8		2.05	.53	.39	.03		2.21		.12						19
1130	5050																			
F71100.00		9.65	10.2	54 F	7.0	134	16	3.1	5.3	1.7	0.0	40	--	2.9	--	--	0.0	--	--	53
11/15/66	5050	5210.0	95		7.6		.80	.25	.23	.04		.66		.08						20
1200	5050																			
F71100.00		9.33	10.3	55 F	7.3	129	15	2.8	5.4	1.3	0.0	36	--	2.5	--	--	0.0	--	--	49
12/13/66	5050	5400.0	97		7.6		.75	.23	.23	.03		.59		.07						20
1235	5050																			
F71100.00		5.96	12.3	44 F	8.2	177	23	4.1	6.1	0.8	0.0	79	--	3.4	--	--	0.1	--	--	74
01/17/67	5050	575.0	100		7.4		1.15	.34	.27	.02		1.30		.10						9
1225	5050																			
F71100.00		6.78	11.5	50 F	8.0	130	15	3.2	5.6	0.8	0.0	58	--	2.8	--	--	0.0	--	--	50
02/07/67	5050	1980.0	102		7.5		.75	.26	.24	.02		.95		.08						3
1230	5050																			
F71100.00		5.29	11.7	50 F	8.0	169	22	4.0	6.5	0.8	0.0	76	--	2.6	--	--	0.0	--	--	72
03/07/67	5050	300.0	103		7.5		1.10	.33	.28	.02		1.25		.07						10
1200	5050																			
F71100.00		7.98	11.4	58 F	8.0	121	14	3.0	5.5	0.8	0.0	45	--	2.3	--	--	0.0	--	--	48
04/04/67	5050	1980.0	111		7.3		.70	.25	.24	.02		.74		.06						11
1130	5050																			
F71100.00		7.07	11.1	51.5F	7.7	136	17	3.3	5.9	0.8	0.0	62	12	2.2	0.7	--	0.0	11	91	56
05/10/67	5050	1010.0	100		7.3		.85	.27	.26	.02		1.02	.25	.06	.01				83	5
0835	5050						61	19	19	1		76	19	4	1					
F71100.00		6.02	9.9	67 F	8.2	180	24	4.2	6.9	1.1	0.0	85	--	2.4	--	--	0.2	--	--	78
06/06/67	5050	265.0	107		7.9		1.20	.35	.30	.03		1.39		.07						9
1405	5050																			
F71100.00		5.31	9.1	76.0F	8.2	254	--	--	8.6	--	0.0	111	--	4.1	--	--	0.1	--	--	105
07/18/67	5050	95.0	108		8.2				.37			1.82		.12						14
1415	5050																			
F71100.00		5.10	9.1	76.0F	8.4	258	--	--	8.8	--	2.0	118	--	4.2	--	--	0.1	--	--	111
08/08/67	5050	38.0	108		8.2				.38		.07	1.94		.12						11
1315	5050																			
F71100.00		5.09	11.1	74 F	8.0	262	34	5.7	9.1	1.5	0.0	120	27	4.2	0.6	--	0.1	--	122	108
09/12/67	5050	37.0	129				1.70	.47	.40	.04		1.97	.56	.12	.01				141	10
1345	5050						65	18	15	2		74	21	5						
MILL CREEK NEAR COVELO (5e)																				
F63050.00			9.6	54 F	8.1	191	20	7.8	6.8	1.5	0.0	71	--	3.9	6.8	--	0.2	--	--	82
11/16/66	5050	155.0	92		7.3		1.00	.64	.30	.04		1.16		.11	.11					24
1345	5050																			
F63050.00			10.8	50 F	8.0	152	15	7.3	4.9	1.1	0.0	78	--	2.2	1.6	--	0.0	--	--	68
12/14/66	5050	100.0	99		7.6		.75	.60	.21	.03		1.28		.06	.03					4
1330	5050																			
F63050.00			13.8	42 F	8.5	279	28	15	7.9	1.0	4.0	150	--	4.0	0.6	--	0.0	--	--	132
01/18/67	5050	15.0	114		8.3		1.40	1.23	.34	.03	.13	2.46		.11	.01					3
1410	5050																			
F63050.00			10.9	52 F	8.2	205	20	10	5.9	0.9	0.0	113	--	2.7	1.4	--	0.0	--	--	91
02/08/67	5050	250.0	103		7.4		1.00	.82	.26	.02		1.85		.08	.02					0
1600	5050																			
F63050.00			12.3	56 F	8.6	285	28	16	8.3	0.9	6.0	156	--	3.8	1.0	--	0.0	--	--	136
03/08/67	5050	30.0	122		8.3		1.40	1.32	.36	.02	.20	2.56		.11	.02					0
1400	5050																			
F63050.00			11.3	46 F	8.3	175	17	9.9	5.5	0.7	1.0	96	--	1.8	0.3	--	0.0	--	--	83
04/05/67	5050	230.0	99		7.4		.85	.81	.24	.02	.03	1.57		.05						3
1130	5050																			
F63050.00			10.3	61 F	8.2	220	22	12	6.6	0.8	0.0	126	11	2.8	0.3	--	0.0	10	129	104
05/10/67	5050	96.0	108		8.1		1.10	.99	.29	.02		2.07	.23	.08					127	1
1455	5050						46	41	12	1		87	10	3						
F63050.00			9.4	75 F	8.4	309	31	18	8.1	1.2	6.0	177	--	3.1	0.8	--	0.0	--	--	152
06/07/67	5050	16.0	115		8.2		1.55	1.48	.35	.03	.20	2.90		.09	.01					0
1330	5050																			

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TOS SUM	TH NCH
OUTLET CREEK NEAR LONGVALE (5b)																				
F61350.00		3.47	12.6	64 F	8.4	399	42	13	25	2.2	6.0	181	--	31	--	--	3.3	--	--	158
10/12/66	5050	1.5	135		8.3		2.10	1.07	1.09	.06	.20	2.97		.87						0
1400	5050																			
F61350.00		4.88	10.0	54 F	7.8	103	9.6	4.3	4.2	1.3	0.0	38	--	4.5	--	--	0.2	--	--	42
11/16/66	5050	680.0	96		7.2		.48	.35	.18	.03		.62		.13						11
1205	5050																			
F61350.00		5.22	11.1	51 F	7.8	99	9.6	4.3	4.2	0.9	0.0	46	--	2.9	--	--	0.1	--	--	42
12/14/66	5050	780.0	102		7.4		.48	.35	.18	.02		.75		.08						5
1200	5050																			
F61350.00		3.75	13.1	42 F	8.1	192	19	7.0	8.9	0.8	0.0	94	--	7.0	--	--	0.4	--	--	76
01/18/67	5050	42.0	107		8.2		.95	.58	.39	.02		1.54		.20						0
1250	5050																			
F61350.00		4.18	11.8	48 F	8.0	123	12	5.0	5.2	0.6	0.0	63	--	3.3	--	--	0.2	--	--	50
02/08/67	5050	350.0	105		7.5		.60	.41	.23	.02		1.03		.09						0
1430	5050																			
F61350.00		3.21	10.8	52 F	7.8	178	18	6.6	8.0	0.9	0.0	87	--	5.8	--	--	0.3	--	--	72
03/08/67	5050	50.0	101		7.6		.90	.54	.35	.02		1.43		.16						1
1240	5050																			
F61350.00		5.21	11.4	47 F	7.9	89	8.5	4.0	4.2	0.6	0.0	46	--	1.9	--	--	0.1	--	--	38
04/05/67	5050	920.0	100		7.3		.42	.33	.18	.02		.75		.05						1
1000	5050																			
F61350.00		3.96	10.4	57 F	7.9	139	14	5.7	6.0	0.8	0.0	74	7.0	3.7	0.2	--	0.2	9.6	86	58
05/10/67	5050	220.0	103		7.8		.70	.47	.26	.02		1.21	.15	.10					83	0
1335	5050						48	32	18	1		83	10	7						
F61350.00		3.21	10.5	69 F	8.1	184	19	7.0	8.3	1.2	0.0	97	--	4.4	--	--	0.5	--	--	76
06/07/67	5050	48.0	119		8.4		.95	.58	.36	.03		1.59		.12						0
1200	5050																			
F61350.00		2.41	9.0	78.0F	8.3	264	--	--	12	--	0.0	131	--	12	--	--	1.2	--	--	111
07/19/67	5050	5.0	112		8.3				.52			2.15		.34						4
1155	5050																			
F61350.00		2.33	7.9	78.0F	8.3	282	--	--	14	--	0.0	140	--	16	--	--	1.3	--	--	114
08/09/67	5050	1.6	98		8.2				.61			2.30		.45						0
1100	5050																			
F61350.00		2.28	7.8	72 F	8.2	316	28	12	16	1.6	0.0	143	8.9	18	0.2	--	1.9	--	162	120
09/13/67	5050	.2	91		8.0		1.40	.99	.70	.04		2.35	.19	.51					157	3
1115	5050						45	32	22	1		77	6	17						
REDWOOD CREEK AT ORICK (3b)																				
F55100.00		5.31	8.3	69 F	7.9	188	26	3.4	5.5	0.8	0.0	76	--	6.0	--	--	0.0	--	--	79
10/10/66	5050	25.0	92		7.2		1.30	.28	.24	.02		1.25		.17						17
1415	5050																			
F55100.00		9.18	10.0	47 F	7.8	163	23	2.3	3.8	1.1	0.0	50	--	4.0	--	--	0.2	--	--	67
11/14/66	5050	390.0	85		7.1		1.15	.19	.17	.03		.82		.11						26
1630	5050																			
F55100.00		8.04	11.0	53 F	7.6	93	13	1.9	2.9	1.5	0.0	39	--	2.4	--	--	0.0	--	--	40
12/12/66	5050	2550.0	101		7.3		.65	.16	.13	.04		.64		.07						8
1430	5050																			
F55100.00		5.94	11.3	48 F	7.7	140	21	2.0	3.2	0.5	0.0	59	--	2.7	--	--	0.0	--	--	60
01/16/67	5050	350.0	97		7.4		1.05	.16	.14	.01		.97		.08						12
1415	5050																			
F55100.00		7.58	12.2	48 F	7.6	90	13	1.6	2.7	0.5	0.0	38	--	2.6	--	--	0.0	--	--	39
02/06/67	5050	1580.0	105		7.2		.65	.13	.12	.01		.62		.07						8
1600	5050																			
F55100.00		6.23	10.5	52 F	7.8	126	19	1.6	3.3	0.5	0.0	53	--	3.0	--	--	0.0	--	--	54
03/06/67	5050	378.0	95		7.3		.95	.13	.14	.01		.87		.08						11
1520	5050																			
F55100.00		7.92	10.4	44 F	7.7	91	13	1.6	3.3	0.6	0.0	37	--	3.0	--	--	0.0	--	--	39
04/03/67	5050	1500.0	85		7.1		.65	.13	.14	.02		.61		.08						9
1330	5050																			
F55100.00		7.85	10.7	52 F	7.7	95	14	1.8	2.6	0.5	0.0	43	8.0	2.1	0.4	--	0.0	5.8	54	42
05/09/67	5050	1100.0	97		7.3		.70	.15	.11	.01		.71	.17	.06	.01				56	7
1100	5050						72	15	11	1		75	18	6	1					
F55100.00		6.47	10.0	59 F	7.7	123	19	1.7	3.5	0.4	0.0	56	--	2.2	--	--	0.0	--	--	54
06/06/67	5050	348.0	99		7.3		.95	.14	.15	.01		.92		.06						8
0710	5050																			
F55100.00		5.71	9.0	61.0F	8.1	172	--	--	4.8	--	0.0	76	--	4.6	--	--	0.1	--	--	68
07/18/67	5050	78.0	91		7.3				.21			1.25		.13						6
0830	5050																			
F55100.00		5.34	8.9	60.0F	7.7	177	--	--	5.1	--	0.0	80	--	5.2	--	--	0.0	--	--	76
08/08/67	5050	22.0	89		7.3				.22			1.31		.15						11
0745	5050																			
F55100.00		5.17	8.7	57.0F	7.5	178	26	3.0	5.7	0.6	0.0	76	18	6.3	0.0	--	0.0	--	87	78
09/11/67	5050	25.0	84		7.1		1.30	.25	.25	.02		1.25	.37	.18.					97	16
0750	5050						71	14	14	1		69	21	10						

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
SAIMON RIVER AT SOMESBAR (2a)																				
F34100.00		6.70	11.8	50.5F	7.6	72	9.6	2.2	1.4	0.5	0.0	38	4.0	0.4	0.2	--	0.0	9.2	50	33
05/08/67	5050	4850.0	106		7.3		.48	.18	.06	.01		.62	.08	.01					46	2
1255	5050						66	25	8	1		87	11	1						
F34100.00		1.39	9.3	65.0F	8.2	164	21	4.2	3.5	1.4	0.0	80	7.4	2.5	0.1	--	0.0	--	72	70
09/11/67	5050	227.0	100		8.2		1.05	.35	.15	.04		1.31	.15	.07					79	5
1025	5050						66	22	9	3		86	10	5						
SCOTT RIVER NEAR FORT JONES (1b)																				
F25250.00		1.72	11.7	60 F	8.1	271	27	15	5.1	0.6	0.0	160	--	4.8	--	--	0.0	--	--	129
10/03/66	5050	39.0	128		7.8		1.35	1.23	.22	.02		2.62		.14						0
1420	5050																			
F25250.00		1.98	11.5	57 F	8.4	283	30	16	5.0	0.7	3.0	170	--	4.0	--	--	0.0	--	--	141
10/31/66	5050	58.0	122		7.8		1.50	1.32	.22	.02	.10	2.79		.11						0
1650	5050																			
F25250.00		6.97	11.0	41 F	8.1	167	14	12	2.8	0.9	0.0	93	--	1.7	--	--	0.0	--	--	84
12/07/66	5050	850.0	94		7.4		.70	.99	.12	.02		1.53		.05						8
	5050																			
F25250.00		5.75	10.9	41 F	8.1	192	18	12	3.2	0.6	0.0	111	--	3.0	--	--	0.0	--	--	94
01/04/67	5050	348.0	94		7.6		.90	.99	.14	.02		1.82		.08						3
1800	5050																			
F25250.00		7.03	11.0	44 F	8.2	188	20	11	2.9	0.5	0.0	109	--	1.5	--	--	0.0	--	--	95
02/14/67	5050	946.0	98		7.5		1.00	.90	.13	.01		1.79		.04						6
1630	5050																			
F25250.00		6.11	11.0	48 F	8.0	199	20	12	3.8	0.5	0.0	116	--	1.4	--	--	0.0	--	--	100
03/09/67	5050	502.0	104		8.0		1.00	.99	.17	.01		1.90		.04						5
1815	5050																			
F25250.00		6.46	11.4	48.5F	8.4	196	21	12	3.3	0.6	4.0	111	--	0.9	--	--	0.0	--	--	102
04/04/67	5050	615.0	108		7.7		1.05	.99	.14	.02	.13	1.82		.03						5
1300	5050																			
F25250.00		5.98	13.8	58 F	8.6	232	24	14	3.7	0.7	7.0	131	6.0	1.6	1.4	--	0.0	15	133	118
05/02/67	5050	452.0	148		8.4		1.20	1.15	.16	.02	.23	2.15	.12	.05	.02				138	0
1410	5050						47	45	6	1	9	84	5	2	1					
F25250.00		7.76	9.9	52 F	7.8	115	11	7.3	2.3	0.5	0.0	68	--	0.6	1.7	--	0.0	--	--	58
06/13/67	5050	1260.0	98		7.4		.55	.60	.10	.01		1.12		.02	.03					2
0800	5050																			
F25250.00		6.30	8.5	73.0F	8.2	181	--	--	3.3	--	0.0	107	--	2.1	--	--	0.0	--	--	91
07/05/67	5050	498.0	107		7.6				.14			1.75		.06						4
1540	5050																			
F25250.00		5.03	10.1	75.0F	8.1	289	--	--	6.1	--	0.0	168	--	4.2	--	--	0.0	--	--	143
08/01/67	5050	76.0	130		8.0				.27			2.76		.12						5
1435	5050																			
F25250.00		4.87	11.6	68.0F	8.2	282	29	15	5.3	0.9	0.0	163	9.5	4.3	3.0	--	0.1	--	157	134
09/06/67	5050	48.0	139		7.9		1.45	1.23	.23	.02		2.67	.20	.12	.05				147	1
1210	5050						49	42	8	1		88	7	4	2					

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	MCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
SHASTA RIVER NEAR YREKA (1a)																				
F21050.00		3.96	9.7	75 F	8.7	626	36	39	49	4.2	24	324	--	29	--	--	0.5	--	--	250
10/03/66	5050	362.0	122		8.4		1.80	3.21	2.13	.11	.80	5.31		.82						0
1240	5050																			
F21050.00		3.48	11.6	52 F	8.8	477	28	29	38	2.9	14	252	--	21	--	--	0.4	--	--	190
10/31/66	5050	171.0	113		8.4		1.40	2.38	1.65	.07	.47	4.13		.59						0
1255	5050																			
F21050.00		4.17	10.8	42 F	8.6	533	28	34	42	4.2	10	244	--	24	--	--	0.5	--	--	210
12/06/66	5050	461.0	92		8.2		1.40	2.79	1.83	.11	.33	4.00		.68						0
1615	5050																			
F21050.00		3.45	11.2	45 F	8.7	509	30	32	38	2.6	14	270	--	22	--	--	0.3	--	--	206
01/04/67	5050		100		8.5		1.50	2.63	1.65	.07	.47	4.43		.62						0
1525	5050																			
F21050.00		3.71	11.8	45 F	8.6	484	30	31	33	2.0	14	262	--	18	--	--	0.4	--	--	202
02/14/67	5050	231.0	105		8.4		1.50	2.55	1.44	.05	.47	4.30		.51						0
1540	5050																			
F21050.00		3.45	11.5	50 F	8.6	460	27	28	34	2.1	9.0	240	--	20	--	--	0.2	--	--	182
03/09/67	5050	145.0	109		8.2		1.35	2.30	1.48	.05	.30	3.94		.56						0
1100	5050																			
F21050.00		3.51	11.6	51 F	8.7	476	28	33	35	2.4	11	244	--	20	--	--	0.4	--	--	206
04/04/67	5050	184.0	111		8.4		1.40	2.71	1.52	.06	.37	4.00		.56						0
1140	5050																			
F21050.00		3.48	11.1	52.0F	8.5	512	30	33	36	2.3	7.0	282	11	18	1.2	--	0.4	36	314	210
05/02/67	5050	190.0	108		8.4		1.50	2.71	1.57	.06	.23	4.62	.23	.51	.02				313	0
0930	5050						26	46	27	1	4	82	4	9						
F21050.00		3.29	8.6	71 F	8.7	503	30	33	35	2.0	21	274	--	17	--	--	0.4	--	--	210
06/12/67	5050	123.0	104		8.4		1.50	2.71	1.52	.05	.70	4.49		.48						0
1605	5050																			
F21050.00		2.82	9.0	80.0F	8.8	626	--	--	45	--	21	320	--	25	--	--	0.7	--	--	254
07/05/67	5050	44.0	119		8.4				1.96		.70	5.25		.71						0
1245	5050																			
F21050.00		2.76	8.7	80 F	8.7	675	--	--	50	--	12	343	--	30	--	--	0.6	--	--	265
08/01/67	5050	36.0	115		8.5				2.18		.40	5.63		.85						0
1335	5050																			
F21050.00		2.82	9.1	71.5F	8.9	662	37	40	49	4.4	26	322	12	30	1.0	--	0.6	--	371	257
09/05/67	5050	42.0	111		8.4		1.85	3.29	2.13	.11	.87	5.28	.25	.85	.02				358	0
1240	5050						25	45	29	1	12	73	3	12						
SMITH RIVER NEAR CRESCENT CITY (3a)																				
F01300.00		6.24	10.1	78 F	8.4	182	13	14	2.6	0.8	2.0	98	--	2.6	--	--	0.0	--	--	90
10/10/66	5050	218.0	122		8.2		.65	1.15	.11	.02	.07	1.61		.07						6
1625	5050																			
F01300.00		22.06	11.3	54 F	7.9	89	5.2	8.1	1.3	0.4	0.0	49	--	1.3	--	--	0.0	--	--	46
11/15/66	5050	39300.0	105		7.8		.26	.67	.06	.01		.80		.04						6
0720	5050																			
F01300.00		16.99	12.4	49 F	8.0	91	6.5	7.4	1.4	0.5	0.0	50	--	1.4	--	--	0.0	--	--	46
12/12/66	5050	17600.0	108		7.8		.32	.61	.06	.01		.82		.04						5
1550	5050																			
F01300.00		9.49	12.4	45 F	7.9	109	6.1	9.0	1.8	0.3	0.0	62	--	1.1	--	--	0.0	--	--	52
01/16/67	5050	2010.0	102		7.4		.30	.74	.08	.01		1.02		.03						1
1545	5050																			
F01300.00		14.36	12.4	46 F	7.8	94	7.0	6.9	1.5	0.5	0.0	50	--	1.6	--	--	0.0	--	--	46
02/06/67	5050	9260.0	104		7.3		.35	.57	.07	.01		.82		.05						5
1710	5050																			
F01300.00		9.55	11.1	47 F	8.0	103	5.8	8.5	1.6	0.2	0.0	60	--	1.4	--	--	0.0	--	--	50
03/06/67	5050	1700.0	94		7.3		.29	.70	.07	.01		.98		.04						1
1800	5050																			
F01300.00		11.52	12.2	47 F	8.0	92	5.2	8.1	1.8	0.3	0.0	53	--	1.4	--	--	0.0	--	--	46
04/03/67	5050	4270.0	104		7.4		.26	.67	.08	.01		.87		.04						3
1515	5050																			
F01300.00		12.73	12.5	48 F	7.9	80	5.4	6.5	1.2	0.3	0.0	45	2.0	1.1	0.1	--	0.1	10	52	40
05/09/67	5050	6080.0	108		7.5		.27	.53	.05	.01		.74	.04	.03					49	3
0850	5050						31	62	6	1		91	5	4						
F01300.00		9.42	11.1	55 F	7.9	95	6.6	7.2	1.6	0.3	0.0	53	--	0.8	--	--	0.0	--	--	46
06/06/67	5050	1660.0	104		7.6		.33	.59	.07	.01		.87		.02						3
0915	5050																			
F01300.00		7.41	9.8	66.0F	8.3	145	--	--	2.5	--	0.0	79	--	2.4	--	--	0.1	--	--	67
07/18/67	5050	466.0	105		7.4				.11			1.30		.07						2
1020	5050																			
F01300.00		7.02	9.2	66.0F	8.5	157	--	--	2.5	--	2.0	84	--	2.6	--	--	0.0	--	--	76
08/08/67	5050	353.0	98		8.0				.11		.07	1.38		.07						4
0945	5050																			
F01300.00		6.82	9.4	62.0F	7.7	168	11	13	2.7	0.8	0.0	91	7.1	2.8	0.0	--	0.0	--	72	81
09/12/67	5050	303.0	96		7.8		.55	1.07	.12	.02		1.49	.15	.08					82	7
0945	5050						31	61	7	1		87	9	5						

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS / SUM	TH / NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
TRINITY RIVER AT HOOPA (4)																				
F41090.00		14.15	9.8	64 F	8.4	237	27	10	5.1	1.1	4.0	116	--	5.6	1.9	--	0.0	--	--	108
10/10/66	5050	466.0	103		7.6		1.35	.82	.22	.03	.13	1.90		.16	.03					7
1005	5050																			
F41090.00		16.81	10.4	54 F	8.2	211	24	8.5	4.6	0.8	0.0	99	--	4.4	1.9	--	0.0	--	--	95
11/14/66	5050	2480.0	97		7.3		1.20	.70	.20	.02		1.62		.12	.03					14
1230	5050																			
F41090.00		20.44	10.8	50 F	8.1	188	22	8.7	3.8	0.8	0.0	96	--	2.2	2.4	--	0.0	--	--	91
12/12/66	5050	9400.0	96		7.3		1.10	.72	.17	.02		1.57		.06	.04					13
1000	5050																			
F41090.00		16.02	11.1	43 F	8.0	192	23	8.0	4.3	0.6	0.0	100	--	2.7	0.7	--	0.0	--	--	90
01/16/67	5050	2160.0	90		7.5		1.15	.66	.19	.02		1.64		.08	.01					8
0915	5050																			
F41090.00		20.62	12.1	45 F	8.1	172	21	8.0	2.6	0.5	0.0	94	--	1.2	1.2	--	0.0	--	--	86
02/06/67	5050	9560.0	101		7.3		1.05	.66	.11	.01		1.54		.03	.02					9
1125	5050																			
F41090.00		16.77	11.6	47 F	8.0	181	22	7.8	3.0	0.5	0.0	98	--	1.9	0.5	--	0.0	--	--	87
03/06/67	5050	2990.0	99		7.4		1.10	.64	.13	.01		1.61		.05	.01					7
1050	5050																			
F41090.00		18.17	11.5	46 F	8.2	162	20	7.3	3.1	0.5	0.0	91	--	1.3	0.0	--	0.0	--	--	80
04/03/67	5050		97		7.7		1.00	.60	.13	.01		1.49		.04						6
0910	5050																			
F41090.00		05/08/67	RECORD	STATUS		222														
F41090.00		19.51	10.1	58 F	8.0	130	15	6.0	2.9	0.6	0.0	72	--	1.3	0.6	--	0.0	--	--	62
06/05/67	5050	5060.0	99		7.6		.75	.49	.13	.02		1.18		.04	.01					3
0915	5050																			
F41090.00		17.09	8.2	69.0F	8.0	196	--	--	3.7	--	0.0	104	--	2.9	0.3	--	0.0	--	--	91
07/17/67	5050	3410.0	91		7.3				.16			1.71		.08						6
0920	5050																			
F41090.00		15.44	8.2	69.0F	8.1	216	--	--	4.2	--	0.0	113	10	4.1	0.2	--	0.0	--	--	101
08/07/67	5050	794.0	91		7.4				.18			1.85	.21	.12						9
0900	5050																			
F41090.00		14.88	8.9	66 F	7.8	232	28	9.3	5.4	0.6	0.0	118	13	5.3	0.9	--	0.0	--	106	108
09/11/67	5050	1040.0	96		7.6		1.40	.76	.23	.02		1.94	.27	.15	.01				120	11
0845	5050						58	32	10	1		82	11	6						
TRINITY RIVER AT LEWISTON (4a)																				
F41640.00		3.20	11.4	46 F	7.9	96	5.1	7.2	2.4	0.6	0.0	54	--	1.5	2.1	--	0.0	--	--	42
10/10/66	5050	215.0	102		7.4		.25	.59	.10	.02		.89		.04	.03					0
0800	5050																			
F41640.00		3.34	11.0	46 F	8.1	93	5.0	7.3	2.1	0.5	0.0	53	--	1.3	1.7	--	0.0	--	--	42
11/14/66	5050	259.0	98		7.3		.25	.60	.09	.01		.87		.04	.03					0
0945	5050																			
F41640.00		3.18	11.1	44 F	7.9	101	6.0	7.3	2.9	0.6	0.0	55	--	2.1	2.0	--	0.0	--	--	45
12/12/66	5050	215.0	96		7.2		.30	.60	.13	.02		.90		.06	.03					0
0730	5050																			
F41640.00		2.96	11.2	42 F	7.8	95	5.2	7.2	2.6	0.5	0.0	53	--	1.2	1.3	--	0.0	--	--	42
01/16/67	5050	159.0	94		7.3		.26	.59	.11	.01		.87		.03	.02					0
0635	5050																			
F41640.00		2.97	11.8	43 F	7.8	97	6.5	7.0	2.6	0.5	0.0	52	--	0.8	1.3	--	0.0	--	--	45
02/06/67	5050	164.0	101		7.1		.32	.58	.11	.01		.85		.02	.02					3
0915	5050																			
F41640.00		2.97	10.8	44 F	7.7	94	5.2	7.1	2.6	0.3	0.0	52	--	1.3	1.1	--	0.0	--	--	42
03/06/67	5050	164.0	94		7.3		.26	.58	.11	.01		.85		.04	.02					0
0835	5050																			
F41640.00		2.97	11.3	44 F	7.9	94	5.4	7.4	2.9	0.6	0.0	51	--	1.4	0.7	--	0.0	--	--	44
04/03/67	5050	161.0	98		7.1		.27	.61	.13	.02		.84		.04	.01					2
0700	5050																			
F41640.00		2.99	11.1	51 F	7.5	93	5.2	7.3	2.5	0.4	0.0	53	2.0	1.2	0.2	--	0.0	11	62	43
05/08/67	5050	166.0	105		7.3		.26	.60	.11	.01		.87	.04	.03					56	0
0805	5050						27	61	11	1		93	4	3						
F41640.00		4.91	11.1	51 F	7.6	90	5.0	7.1	2.7	0.6	0.0	49	--	0.9	1.3	--	0.0	--	--	42
06/05/67	5050	1260.0	106		7.4		.25	.58	.12	.02		.80		.03	.02					2
0655	5050																			
F41640.00		2.98	10.2	49.0F	7.7	95	--	--	2.7	--	0.0	53	--	1.8	0.7	--	0.0	--	--	42
07/17/67	5050	150.0	95		7.3				.12			.87		.05	.01					0
0700	5050																			
F41640.00		2.98	10.3	48.0F	7.6	95	--	--	2.8	--	0.0	53	0.2	1.9	0.6	--	0.0	--	--	42
08/07/67	5050	164.0	94		7.0				.12			.87		.05	.01					0
0700	5050																			
F41640.00		2.99	10.3	47.0F	7.8	94	4.9	7.2	2.5	0.4	0.0	52	0.3	1.7	0.4	--	0.1	--	33	42
09/11/67	5050	166.0	93		7.2		.24	.59	.11	.01		.85	.01	.05	.01				43	0
0630	5050						25	62	12	1		92	1	5	1					

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
TRINITY RIVER NEAR BURNT RANCH (4b)																				
F41376.00			10.6	52 F	7.8	107	11	4.7	2.9	0.6	0.0	51	--	2.9	1.8	--	0.0	--	--	47
11/14/66	5050	1710.0	99		7.3		.55	.39	.13	.02		.84		.08	.03					5
1130	5050																			
F41376.00			12.3	41 F	7.9	155	18	6.4	3.6	0.5	0.0	83	--	3.2	0.7	--	0.0	--	--	72
01/16/67	5050	710.0	99		7.4		.90	.53	.16	.01		1.36		.09	.01					4
0815	5050																			
F41376.00			12.1	43 F	8.1	160	19	6.6	3.3	0.5	0.0	86	--	2.7	0.8	--	0.0	--	--	74
03/06/67	5050	1100.0	100		7.6		.95	.54	.14	.01		1.41		.08	.01					4
1000	5050																			
F41376.00			11.2	55 F	7.8	102	12	4.2	2.0	0.5	0.0	58	3.0	1.5	0.5	--	0.0	9.9	64	48
05/08/67	5050	1570.0	108		7.6		.60	.35	.09	.01		.95	.06	.04	.01				62	1
0930	5050						57	33	9	1		90	6	4	1					
F41376.00			8.7	71.0F	8.2	125	--	--	3.3	--	0.0	67	--	3.2	0.2	--	0.0	--	--	56
07/17/67	5050	385.0	101		7.7				.14			1.10		.09						1
0830	5050																			
F41376.00			8.4	64 F	7.8	171	17	7.5	5.0	0.7	0.0	88	3.8	6.1	0.1	--	0.0	--	72	74
09/11/67	5050	375.0	90		8.0		.85	.62	.22	.02		1.44	.08	.17					83	2
0745	5050						50	36	13	1		85	5	10						
VAN DUZEN RIVER NEAR BRIDGEVILLE (5a)																				
F65300.00		3.20	10.3	64 F	8.5	377	51	11	11	1.6	5.0	176	--	6.0	--	--	0.1	--	--	172
10/11/66	5050	9.0	108		8.2		2.54	.90	.48	.04	.17	2.89		.17						19
1400	5050																			
F65300.00		6.66	10.4	53 F	7.9	184	25	5.3	4.4	1.5	0.0	78	--	2.7	--	--	0.1	--	--	84
11/15/66	5050	2420.0	96		8.0		1.25	.44	.19	.04		1.28		.08						20
1500	5050																			
F65300.00		7.07	11.3	51 F	8.1	128	17	3.7	3.3	1.0	0.0	64	--	1.3	--	--	0.0	--	--	58
12/13/66	5050	3000.0	102		7.7		.85	.30	.14	.03		1.05		.04						6
1610	5050																			
F65300.00		4.09	11.3	44 F	8.2	194	26	5.9	4.8	0.9	0.0	94	--	1.9	--	--	0.0	--	--	90
01/17/67	5050	132.0	93		7.7		1.30	.48	.21	.02		1.54		.05						13
1420	5050																			
F65300.00		5.23	11.3	46 F	8.1	139	18	4.2	3.5	0.8	0.0	71	--	1.3	--	--	0.0	--	--	62
02/07/67	5050	847.0	96		7.3		.90	.35	.15	.02		1.16		.04						4
1450	5050																			
F65300.00		4.14	10.6	56 F	8.0	186	25	5.3	5.3	0.9	0.0	90	--	1.9	--	--	0.0	--	--	84
03/07/67	5050	154.0	102		7.6		1.25	.44	.23	.02		1.48		.05						10
1530	5050																			
F65300.00		5.67	11.7	48 F	8.0	124	16	4.3	3.6	0.8	0.0	65	--	0.9	--	--	0.0	--	--	58
04/04/67	5050	973.0	102		7.6		.80	.35	.16	.02		1.07		.03						5
1400	5050																			
F65300.00		6.07	11.3	50.5F	7.8	113	15	4.2	2.6	0.5	0.0	60	7.0	1.0	0.2	--	0.0	7.9	59	55
05/09/67	5050	1330.0	101		7.7		.75	.35	.11	.01		.98	.15	.03					68	6
1300	5050						61	29	9	1		84	13	3						
F65300.00		4.52	9.2	69 F	8.1	158	21	4.9	3.6	0.9	0.0	85	--	0.8	--	--	0.0	--	--	72
06/05/67	5050	243.0	102		8.0		1.05	.40	.16	.02		1.39		.02						3
1430	5050																			
F65300.00		3.80	8.7	79.0F	8.2	252	--	--	6.6	--	0.0	126	--	3.2	--	--	0.1	--	--	106
07/17/67	5050	31.0	107		8.2				.29			2.07		.09						3
1430	5050																			
F65300.00		3.69	9.5	78.0F	8.6	268	--	--	7.3	--	4.0	127	--	3.2	--	--	0.0	--	--	123
08/07/67	5050	56.0	116		8.4				.32		.13	2.08		.09						13
1400	5050																			
F65300.00		3.59	8.7	75 F	8.4	317	45	8.6	9.2	1.7	3.0	147	31	4.8	0.3	--	0.4	--	137	148
09/11/67	5050	32.0	103		8.7		2.25	.71	.40	.04	.10	2.41	.64	.14					176	23
1430	5050						66	21	12	1	3	73	19	4						

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER / DATE / TIME	LAB / SAMPLER	G.H. / Q	DO / SAT	TEMP	PH LAB / FLD	EC LAB / FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
WILLIAMS CREEK NEAR COVELO (5f)																				
F63105.00		2.12	10.1	62 F	8.5	343	41	19	4.3	1.2	8.0	192	--	1.5	1.5	--	0.0	--	--	180
10/12/66	5050	.4	108		8.2		2.05	1.56	.19	.03	.27	3.15		.04	.02					9
1200	5050																			
F63105.00		3.16	9.8	51 F	8.1	132	15	6.4	2.5	0.7	0.0	64	--	1.0	1.7	--	0.0	--	--	64
11/16/66	5050	165.0	92		7.3		.75	.53	.11	.02		1.05		.03	.03					12
1545	5050																			
F63105.00		3.14	11.2	47 F	8.0	96	11	4.4	2.0	0.7	0.0	50	--	0.7	0.7	--	0.0	--	--	46
12/14/66	5050	160.0	100		7.6		.55	.36	.09	.02		.82		.02	.01					5
1410	5050																			
F63105.00		2.23	11.5	45 F	8.0	169	19	7.5	3.2	0.7	0.0	86	--	0.8	0.3	--	0.0	--	--	78
01/18/67	5050	15.5	100		7.2		.95	.62	.14	.02		1.41		.02						8
1500	5050																			
F63105.00		2.79	11.3	48 F	8.0	116	13	4.9	2.5	0.5	0.0	59	--	0.8	0.9	--	0.1	--	--	52
02/08/67	5050	90.0	102		7.3		.65	.40	.11	.01		.97		.02	.01					4
1645	5050																			
F63105.00		2.02	9.8	54 F	8.3	161	19	7.1	3.2	0.7	1.0	81	--	1.0	0.7	--	0.0	--	--	76
03/08/67	5050	11.0	96		6.8		.95	.58	.14	.02	.03	1.33		.03	.01					8
1555	5050																			
F63105.00		2.82	11.4	47 F	8.1	113	13	4.6	3.0	0.5	0.0	58	--	0.6	0.1	--	0.0	--	--	52
04/05/67	5050	105.0	102		7.4		.65	.38	.13	.01		.95		.02						5
1230	5050																			
F63105.00		2.24	9.0	67 F	8.0	133	15	6.0	1.5	0.7	0.0	71	--	0.4	0.7	--	0.0	--	--	62
06/07/67	5050	29.0	102		8.1		.75	.49	.07	.02		1.16		.01	.01					4
1420	5050																			
F63105.00		1.57	8.4	82.0F	8.6	221	--	--	3.9	--	8.0	111	--	1.8	0.1	--	0.0	--	--	109
07/19/67	5050	4.0	111		8.4				.17		.27	1.82		.05						5
1335	5050																			
F63105.00		1.46	9.7	82.0F	8.8	242	--	--	4.3	--	4.0	126	6.1	1.9	0.0	--	0.1	--	--	120
08/09/67	5050	1.1	128		8.4				.19		.13	2.07	.13	.05						10
1230	5050																			
F63105.00		1.38	8.9	79 F	8.4	300	36	15	4.9	1.4	4.0	173	18	3.0	0.0	--	0.1	--	131	152
09/13/67	5050	.0	114		8.3		1.80	1.23	.21	.04	.13	2.84	.37	.08					167	4
1300	5050						55	38	6	1	4	83	11	2						

TABLE D-3
TRACE ELEMENT ANALYSES OF SURFACE WATER
North Coastal Area

STATION	STATION NUMBER	DATE	CONSTITUENTS IN MICROGRAMS PER LITER																
			(Al)	(Be)	(Bi)	(Cd)	(Co)	(Cr)	(Cu)	(Fe)	(Ga)	(Ge)	(Mn)	(Mo)	(Ni)	(Pb)	(Ti)	(V)	(Zn)
EEL RIVER ABOVE OUTLET CREEK (5d)	F61329.50	5-10-66	34	0.6	0.3	1.4	1.4	1.4	12	34	5.7	0.3	18	0.3	2.3	1.4	2.2	0.6	5.7
		9-13-67	16	0.6	0.3	1.4	1.4	1.4	7.4	12	5.7	0.3	1.4	2.3	1.8	1.4	0.6	0.6	5.7
EEL RIVER, MIDDLE FORK AT DOS RIOS (5c)	F63010.00	5-10-66	54	0.6	0.3	1.4	1.4	1.4	1.4	27	5.7	0.3	22	0.3	3.4	1.4	2.0	0.8	5.7
		9-13-67	9.7	0.6	0.3	1.4	1.4	1.4	1.4	43	5.7	0.3	1.4	0.3	3.1	1.4	0.6	0.3	5.7
EEL RIVER AT SCOTIA (6)	F61100.00	5- 9-66	34	0.6	0.3	1.4	1.4	1.4	1.4	31	5.7	0.3	1.4	0.3	2.9	1.4	0.6	0.6	5.7
		9-13-67	8.9	0.6	0.3	1.4	1.4	1.4	1.4	18	5.7	0.3	1.4	2.0	1.5	1.4	0.6	0.4	5.7
KLAMATH RIVER BELOW IRON GATE DAM (1f)	F31600.00	5- 2-66	77	0.6	0.3	1.4	1.4	1.4	1.4	29	5.7	0.3	1.4	0.3	2.2	1.4	2.0	6.6	5.7
		9- 5-67	43	0.6	0.3	1.4	1.4	1.4	1.4	43	5.7	0.3	25	0.3	4.0	1.4	0.6	6.6	5.7
KLAMATH RIVER NEAR KLAMATH (3)	F31100.00	5- 9-66	49	0.6	0.3	1.4	1.4	1.4	1.4	66	5.7	0.6	27	0.3	4.6	1.4	3.1	2.9	5.7
		9-12-67	12	0.6	0.3	1.4	1.4	1.4	1.4	22	5.7	0.3	1.4	0.3	4.6	1.4	0.6	3.1	5.7
KLAMATH RIVER AT ORLEANS (2c)	F31220.01	5- 8-66	54	0.6	0.6	1.4	1.4	1.4	1.4	5.4	5.7	0.3	34	0.3	5.1	60	3.4	3.4	5.7
		9-11-67	1.4	0.6	0.3	1.4	1.4	1.4	1.4	26	5.7	0.3	1.4	0.3	4.3	1.4	0.6	4.6	5.7
KLAMATH RIVER NEAR SKIAD VALLEY (2b)	F31430.00	5- 2-66	37	0.6	0.3	1.4	1.4	1.4	1.4	71	5.7	0.3	1.4	0.3	2.9	1.4	1.1	6.3	5.7
		9- 6-67	10	0.6	0.3	1.4	1.4	1.4	1.4	27	5.7	0.3	34	0.3	3.7	1.4	0.6	5.4	5.7
MAD RIVER NEAR ARCATA (6a)	F51100.00	5- 8-66	114	0.6	0.3	1.4	1.4	1.4	1.4	40	5.7	0.3	22	0.3	2.2	1.4	3.7	0.9	5.7
		9-11-67	20	0.6	0.3	1.4	1.4	1.4	1.4	34	5.7	0.3	1.4	0.3	2.1	1.4	0.6	0.6	5.7
TRINITY RIVER AT HOOPA (4)	F41090.00	5- 8-66	54	0.6	0.3	1.4	1.4	1.4	1.4	40	5.7	0.3	17	0.3	4.0	1.4	1.8	1.1	5.7
		9-11-67	16	0.6	0.3	1.4	1.4	1.4	1.4	24	5.7	0.3	1.4	0.3	4.9	1.4	0.6	0.7	5.7

TABLE D-4 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

An explanation of column headings follows:

Turbidity - The values are shown in ppm when they represent parts per million of silica and in Jackson Candle Units when reported as "units".

MBAS - Methylene Blue Active Substances (ABS and LAS) are a measure of the detergents.

TABLE D-4

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

North Coastal Area

Station	Station Number	Date	Coliform MPN/ml		Turbidity ppm	Turbidity units	MBAS in mg/l	As in mg/l	PO_4 in mg/l	Other Constituents
Bear River at Capetown (7b)	F75100.00	10-11-66				9				
		11-15-66			288	290				
		12-13-66			4300	4400				
		1-17-67				30				
		2- 7-67			500	510				
		3- 9-67				18				
		4- 4-67			370	385				
		5-10-67			152	158	0.0	0.00	0.12	
		6- 6-67				5				
		7-17-67				1				
		9-12-67				1				
Black Butte River near Covelo (5h)	F63200.00	10-12-66			1	15			0.31	
		11-16-66			300	290			0.08	
		12-14-66			670	734			0.15	
		1-18-67			4	10			0.19	
		2- 8-67			320	305			0.11	
		3- 8-67			5	8			0.06	
		4- 5-67			130	132			0.08	
		5-10-67			400		0.0	0.00	0.04	
		6- 7-67			25	25			0.11	
		7-19-67				2			0.05	
		8- 9-67				1			0.02	
		9-13-67				1				
Eel River above Outlet Creek (5d)	F61329.50	10-12-66			1	6			0.07	
		11-16-66			335	350			0.17	
		12-14-66			150	180			0.19	
		1-18-67			2	10			0.18	
		2- 8-67			80	115			0.11	
		3- 8-67			4	2			0.04	
		4- 5-67			45	50			0.13	
		5-10-67			50		0.0	0.00	0.11	
		6- 7-67			4	9			0.12	
		7-19-67				1			0.01	
		8- 9-67				1			0.02	
		9-13-67				1				
Eel River at Scotia (6)	F61100.00	10-11-66			1	37			0.07	Li 0.01; Sr 0.48
		11-15-66	23	23	710	775			0.17	Li 0.02; Sr 0.24
		12-13-66	620	7000	650	605			0.30	Li 0.02; Sr 0.12
		1-17-67	0.21	2.4	3	10			0.09	Li 0.01; Sr 0.33
		2- 7-67	0.38	2.4	230	215			0.09	Li 0.01; Sr 0.26
		3- 7-67	2.4	2.4	5	5			0.08	Li 0.01; Sr 0.32
		4- 4-67	2.4	2.4	205	200			0.15	Li 0.01; Sr 0.21
		5- 9-67	2.3	3.3	575	571	0.0	0.00	0.13	Li 0.01; Sr 0.23
		6- 7-67	2.3	2.3	25	32			0.07	Li 0.01; Sr 0.30
		7-19-67				3			0.06	Li 0.01; Sr 0.38
		8- 9-67			2				0.05	Li 0.02; Sr 0.35
		9-12-67			1	1			0.05	Li 0.01; Sr 0.02
Eel River at South Fork (5)	F61154.50	10-12-66			1	10				
		11-16-66			730	650				
		12-14-66			670	612				
		1-18-67			4	15				
		2- 8-67			260	250				
		3- 8-67			5	10				
		4- 5-67			168	190				
		5-10-67			550	514	0.0	0.00	0.00	
		6- 7-67			100	120				
		7-19-67				2				
		8- 9-67				2				
		9-13-67				1				
Klamath River above Hamburg Reservoir Site (1c)	F31470.00	10-31-66			10	13				
		1- 4-67			10	32				
		3- 9-67			20	25				
		5- 2-67			10		0.0	0.00	0.25	
		7- 5-67			3				0.28	

TABLE D-4 (Continued)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
North Coastal Area

Station	Station Number	Date	Coliform MPN/ml		Turbidity		MBAS in mg/l	As in mg/l	PO_4 in mg/l	Other Constituents
					ppm	units				
Klamath River at Orleans (2c)	F31220.01	11-14-66			170	170				
		12-12-66			162	160				
		1-16-67			25	35				
		2- 6-67			50	78				
		3- 6-67			4	7				
		4- 3-67			35	32				
		5- 8-67			75	77	0.0	0.00	0.18	
		6- 5-67			50	50				
		7-17-67				3				
		8- 7-67				1				
Klamath River below Iron Gate Dam (1f)	F31600.00	10- 3-66	50	620	2	12			0.90	
		10-31-66	130	1300	2	5			0.86	
		12- 6-66	62	62	5	13			0.65	
		1- 4-67	62	620	10				0.60	
		2-14-67	1.3	2.1	10	35			0.30	
		3- 9-67	6.2	6.2	15	30			0.26	
		4- 4-67	0.23	2.3	15				0.39	
		5- 2-67	0.23	13	5		0.0	0.01	0.26	
		6-12-67	0.62	2.3	2				0.35	
		7- 7-67				4			0.25	
		8- 1-67				1			0.35	
Klamath River near Klamath (3)	F31100.00	10-10-66			4	11			0.30	Li 0.05; Sr 0.08
		11-14-66	0.63	2.3	115	105			0.37	Li 0.02; Sr 0.07
		12-13-66	13	620	275	239			0.20	Li 0.02; Sr 0.04
		1-17-67	0.08	0.08	25	35			0.22	Li 0.01; Sr 0.05
		2- 7-67	0.08	0.38	240	220			0.16	Li 0.01; Sr 0.09
		3- 7-67	0.15	0.15	3	48			0.12	Li 0.01; Sr 0.10
		4- 4-67	0.38	0.96	80	77			0.11	Li 0.01; Sr 0.10
		5- 9-67	0.45	4.90	185	173	0.0	0.00	0.13	
		6- 6-67	0.15	0.21	55	69			0.17	Li 0.01; Sr 0.10
		7-18-67							0.13	Li 0.01; Sr 0.10
		8- 8-67			6				0.13	Li 0.02; Sr 0.15
		9-12-67			4				0.15	Li 0.01; Sr 0.10
Klamath River near Seiad Valley (2b)	F31430.00	10-31-66			2	10			0.77	
		1- 4-67			10	35			0.45	
		3- 9-67			15	20			0.21	
		5- 2-67			5		0.0	0.00	0.21	
		7- 5-67				4			0.20	
Mad River near Arcata (6a)	F51100.00	10-10-66			1	20				
		11-14-66			400	350				
		12-12-66			550	547				
		1-16-67			35	60				
		2- 6-67			240	230				
		3- 6-67			40	58				
		4- 3-67			180	162				
		5- 8-67			260	220	0.0	0.00	0.16	
		6- 5-67	1.1	1.7	35	38				
		7-17-67				1				
		8- 7-67				2				
		9-11-67				1				
Mattole River at Petrolia (7a)	F71100.00	10-11-66			1					
		11-15-66			900					
		12-13-66			1600					
		1-17-67			1	5				
		2- 7-67			160	150				
		3- 7-67			1					
		4- 4-67			162	167				
		5-10-67			55		0.0	0.00	0.11	
		6- 6-67			1					
		7-18-67				2				
		8- 8-67				1				
Middle Fork Eel River at Dos Rios (5c)	F63010.00	10-12-66			1	16			0.12	
		11-16-66			1700	1800			0.20	
		12-14-66			800	800			0.02	
		1-18-67			3	10			0.23	
		2- 8-67			270	260			0.08	
		3- 8-67			10	9			0.07	
		4- 5-67			128	130			0.07	
		5-10-67			550	525	0.0	0.00	0.13	
		6- 7-67			50	75			0.12	
		7-19-67				5				
		8- 9-67				1			0.02	
		9-13-67				1				

TABLE D-4 (Continued)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
North Coastal Area

Station	Station Number	Date	Coliform MPN/ml		Turbidity ppm	Turbidity units	MBAS in mg/l	As in mg/l	PO_4 in mg/l	Other Constituents
Middle Fork Eel River above Black Butte River (5g)	F63120.00	10-12-66			1	20			0.29	
		11-16-66			550	500			0.08	
		12-14-66			610	578			0.16	
		1-18-67			4	0			0.16	
		2- 8-67			130	115			0.06	
		3- 8-67			1	1			0.05	
		4- 5-67			35	38			0.07	
		5-10-67			250		0.0	0.00	0.05	
		6- 7-67			10	7			0.07	
		7-19-67				1			0.03	
		8- 9-67				1			0.04	
		9-13-67				1				
Mill Creek near Covelo (5e)	F63050.00	11-16-66			220	232			0.18	
		12-14-66			53	60			0.19	
		1-18-67			1	5			0.21	
		2- 8-67			5	20			0.11	
		3- 8-67			1	2			0.10	
		4- 5-67			25	29			0.09	
		5-10-67			5		0.0	0.00	0.03	
		6- 7-67			2	0			0.15	
Outlet Creek near Longvale (5b)	F61350.00	10-12-66			1	19				
		11-16-66			137	138				
		12-14-66			26	40				
		1-18-67			1	0				
		2- 7-67			5	20				
		3- 8-67			1	0				
		4- 5-67			15	20				
		5-10-67			4		0.0	0.00	0.02	
		6- 7-67			1	4				
		7-19-67			1					
		8- 9-67			2					
		9-13-67				2				
Redwood Creek at Orick (3b)	F55100.00	10-10-66			4					
		11-14-66			375					
		12-12-66			325					
		1-16-67			25	30				
		2- 6-67			270	255				
		3- 6-67			15					
		4- 3-67			190	175				
		5- 9-67			500	450	0.0	0.00	0.00	
		6- 6-67			10					
		7-18-67				2				
		8- 8-67				2				
Salmon River at Somesbar (2a)	F34100.00	5- 8-67			50	58	0.0	0.00	0.00	
Scott River near Fort Jones (1b)	F25250.00	10- 3-66			1	14				
		10-31-66			1	0				
		12- 7-66			20	21				
		1- 4-67			10	22				
		2-14-67			10	25				
		3- 9-67			2	5				
		4- 4-67			5	8				
		5- 2-67			3		0.0	0.00	0.03	
		6-13-67			5					
		7- 5-67				6				
		8- 1-67				5				
Shasta River near Yreka (1a)	F21050.00	10- 3-66			1	11				
		10-31-66			1	5				
		12- 6-66			30	42				
		1- 4-67			4					
		2-14-67			5	15				
		3- 9-67			4	10				
		4- 4-67			3	7				
		5- 2-67			3		0.0	0.01	0.48	
		6-12-67			1					
		7- 5-67				4				

TABLE D-4 (Continued)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
North Coastal Area

Station	Station Number	Date	Coliform MPN/ml		Turbidity		MBAS in mg/l	As in mg/l	PO_4 in mg/l	Other Constituents
					ppm	units				
Smith River near Crescent City (3a)	F01300.00	10-10-66			1					
		11-15-66			325					
		12-12-66			250					
		1-16-67			3	15				
		2- 6-67			65	90				
		3- 6-67			4	3				
		4- 3-67			10	13				
		5- 9-67			80	35	0.0	0.00	0.00	
		6- 6-67	0.05	0.15	4	1				
		7-18-67				1				
		8- 8-67				1				
		9-12-67				1				
South Fork Eel River near Miranda (7)	F64100.00	10-12-66			1	17			0.34	
		11-16-66			1700	1900			0.20	
		12-14-66			610	665			0.34	
		1-18-67			1	0			0.15	
		2- 8-67			160	140			0.15	
		3- 8-67			1	0			0.08	
		4- 5-67			155	139			0.17	
		5-10-67			45	30	0.0	0.00	0.02	
		6- 7-67			3	10			0.15	
		7-17-67				1			0.08	
		8- 9-67				2			0.08	
		9-13-67				2				
Trinity River at Hoopa (4)	F41090.00	10-10-66			1	5			0.26	
		11-14-66			112	102			0.16	
		12-12-66			280	240			0.15	
		1-16-67			25	20			0.21	
		2- 6-67			220	190			0.09	
		3- 6-67			15	28			0.07	
		4- 3-67			85	78			0.09	
		5- 8-67			173	177	0.0	0.00	0.13	
		6- 5-67	0.2	0.2	35				0.10	
		7-17-67				2			0.09	
		8- 7-67				2			0.01	
Trinity River at Lewiston (4a)	F41640.00	10-10-66			1				0.21	
		11-14-66			1				0.07	
		12-12-66			5				0.07	
		1-16-67			2	0			0.17	
		2- 6-67			5	25			0.17	
		3- 6-67			1				0.05	
		4- 3-67			2				0.04	
		5- 8-67			2		0.0	0.00	0.00	
		6- 5-67			2				0.05	
		7-17-67			2				0.03	
		8- 7-67			2				0.03	
Trinity River near Burnt Ranch (4b)	F41376.00	11-14-66			15				0.09	
		1-16-67			1	0			0.12	
		3- 6-67			1				0.04	
		5- 8-67			30	37	0.0	0.00	0.00	
		7-17-67				1			0.00	
Van Duzen River near Bridgeville (5a)	F65300.00	10-11-66			1					
		11-15-66			900					
		12-13-66			900					
		1-17-67			5	20				
		2- 7-67			140	140				
		3- 7-67			1	0				
		4- 4-67			127	115				
		5- 9-67			230	220	0.0	0.00	0.00	
		6- 5-67			4	6				
		7-17-67				0				
		8- 7-67				1				
		9-11-67				1				
Williams Creek near Covelo (5f)	F63105.00	10-12-66			1	17			0.39	
		11-16-66			67	68			0.09	
		12-14-66			61	75			0.10	
		1-18-67			1	0			0.13	
		2- 8-67			5	15			0.05	
		3- 8-67			1	0			0.05	
		4- 5-67			10	16			0.08	
		6- 7-67			1	2			0.07	
		7-19-67				1			0.03	
		8- 9-67				2			0.04	
		9-13-67				1				

APPENDIX E

GROUND WATER QUALITY

INTRODUCTION

This appendix presents ground water quality data collected during the period from October 1, 1966, through September 30, 1967. The data were collected from a number of major ground water sources in the North Coastal Area in cooperation with local agencies. During the 1967 water year, 37 wells were sampled in five ground water basins.

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

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

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements".

TABLE E-1 MINERAL ANALYSES OF GROUND WATER

An explanation of column headings follows:

LAB - 5050 Department of Water Resources

EC - The specific conductance in micromhos at 25° centigrade.

TDS - Gravimetric determination of total dissolved solids in milligrams per liter.

SUM - Determined by addition of analyzed constituents.

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TOS SUM	TH NCH
SMITH RIVER PLAIN	1-1.00																
16N/01W-02Q01 M	59.0F	--	211	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/67 5050																	
1420 5050																	
16N/01W-17K02 M	69.0F	7.6	399	--	--	31	--	0.0	47	--	46	92	--	--	--	--	104
07/18/67 5050						1.35			.77		1.30	1.48					66
1045 5050																	
16N/01W-20H01 M	62.0F	7.6	164	--	--	15	--	0.0	34	--	15	12	--	--	--	--	44
07/18/67 5050						.65			.56		.42	.19					16
1025 5050																	
16N/02W-13E01 M	79.0F	7.6	528	59	11	34	0.4	0.0	200	17	53	1.8	--	0.0	--	237	192
07/18/67 5050				2.94	.90	1.48	.01		3.28	.35	1.49	.03				274	28
1230 5050				55	17	28			64	7	29	1					
17N/01W-02G01 M	55.5F	7.5	108	--	--	6.2	--	0.0	--	--	7.4	--	--	0.0	--	--	39
07/17/67 5050						.27					.21						39
1650 5050																	
17N/01W-03E01 M	57.0F	8.1	358	9.4	36	5.0	7.9	0.0	196	7.7	8.7	8.5	--	0.0	--	168	172
07/17/67 5050				.47	2.96	.22	.20		3.21	.16	.25	.14				179	12
1550 5050				12	77	6	5		85	4	7	4					
17N/01W-14C02 M	67.0F	7.3	161	--	--	4.6	--	0.0	84	--	7.2	2.8	--	--	--	--	73
07/17/67 5050						.20			1.38		.20	.05					4
1500 5050																	
18N/01W-05K01 M	--	7.4	181	10	6.6	15	1.0	0.0	30	18	25	17	--	0.0	--	102	52
07/18/67 5050				.50	.54	.65	.03		.49	.37	.71	.27				107	28
0845 5050				29	31	38	2		27	20	39	15					
18N/01W-17R01 M	--	8.0	226	--	--	13	--	0.0	104	--	18	1.6	--	--	--	--	87
07/18/67 5050						.57			1.71		.51	.03					2
0810 5050																	
18N/01W-26H01 M	59.5F	7.4	92	4.6	6.2	4.0	0.0	0.0	44	4.8	4.5	0.0	--	0.0	--	27	37
07/18/67 5050				.23	.51	.17			.72	.10	.13					46	1
0700 5050				25	56	19			76	11	14						
18N/01W-34M02 M	59.0F	--	404	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/67 5050																	
1615 5050																	
BUTTE VALLEY	1-3.00																
46N/01W-17L01 M	--	--	500	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/02/67 5050																	
0855 5050																	
46N/02W-25H02 M	52.5F	--	321	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/02/67 5050																	
0825 5050																	
48N/01E-31A01 M	69.0F	--	526	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/02/67 5050																	
1125 5050																	
48N/01E-31Q03 M	70	8.3	527	3.8	2.3	109	11	0.0	300	0.5	10	1.0	--	0.7	--	211	19
08/02/67 5050		8.4		.19	.19	4.74	.28		4.92	.01	.28	.02				285	0
1010 5050				4	4	88	5		94		5						
48N/01W-25Q01 M	53.5F	--	365	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/02/67 5050																	
1100 5050																	
MAD RIVER VALLEY	1-8.00																
05N/01E-04H04 M	65 F	7.7	454	26	22	36	4.3	0.0	204	16	32	0.6	--	0.0	--	208	154
07/19/67 5050				1.30	1.81	1.57	.11		3.35	.33	.90	.01				237	0
1355 5050				27	38	33	2		73	7	20						
05N/01W-03B01 M	59.5F	7.6	450	42	8.5	41	1.3	0.0	182	20	29	12	--	0.1	--	217	140
07/18/67 5050				2.10	.70	1.78	.03		2.98	.42	.82	.19				243	0
1710 5050				46	15	39	1		68	10	19	4					
06N/01E-07M01 M	--	8.3	613	--	--	17	--	0.0	280	59	21	--	--	--	--	--	289
07/19/67 5050						.74			4.59	1.23	.59						60
1110 5050																	
06N/01E-08H01 M	56.5F	7.2	207	--	--	16	--	--	--	--	16	15	--	--	--	--	53
07/19/67 5050						.70					.45	.24					53
1210 5050																	
06N/01E-19Q01 M	59.0F	8.1	389	--	--	10	--	--	--	--	11	--	--	--	--	--	180
07/19/67 5050						.44					.31						180
1010 5050																	

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER		TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
MAD RIVER VALLEY	1-8.00																	
06N/01E-30N01 H		57 F	8.2	383	--	--	9.1	--	0.0	216	--	12	--	--	--	--	--	180
07/19/67 5050							.40			3.54		.34						3
1040 5050																		
06N/01E-32F01 H		--	--	748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/19/67 5050																		
0910 5050																		
06N/01W-01H01 H		--	6.8	168	--	--	17	--	--	--	--	20	--	--	--	--	--	38
07/19/67 5050							.74					.56						38
1300 5050																		
EUREKA PLAIN	1-9.00																	
04N/01W-08P01 H		59 F	7.8	160	--	--	12	--	--	--	--	14	--	--	--	--	--	51
07/20/67 5050							.52					.39						51
0850 5050																		
04N/01W-16H01 H		57.5F	8.4	516	--	--	30	--	1.0	247	--	29	11	--	--	--	--	195
07/20/67 5050							1.31		.03	4.05		.82	.18					0
0950 5050																		
04N/01W-17B01 H		59.0F	7.9	175	--	--	13	--	--	--	--	15	--	--	--	--	--	58
07/20/67 5050							.57					.42						58
0910 5050																		
05N/01E-18Q01 H		62.5F	8.6	862	--	--	150	--	5.0	310	--	108	--	--	--	--	--	105
07/19/67 5050							6.53		.17	5.08		3.05						0
1535 5050																		
05N/01E-20Q01 H		59.0F	7.4	284	--	--	25	--	--	--	--	33	--	--	--	--	--	85
07/19/67 5050							1.09					.93						85
1500 5050																		
05N/01W-29Q01 H		--	8.1	268	7.6	16	18	1.9	0.0	71	15	24	21	--	0.0	--	155	85
07/18/67 5050					.38	1.32	.78	.05		1.16	.31	.68	.34				138	27
1620 5050					15	52	31	2		47	12	27	14					
EEL RIVER VALLEY	1-10.00																	
02N/01W-04D01 H		58.5F	8.2	535	--	--	9.5	--	0.0	279	--	7.9	17	--	--	--	--	259
07/20/67 5050							.41			4.58		.22	.27					30
1410 5050																		
EEL RIVER VALLEY	1-10.00																	
02N/01W-07F01 H		55 F	8.3	452	--	--	16	--	0.0	176	--	22	--	--	--	--	--	192
07/20/67 5050							.70			2.89		.62						48
1455 5050																		
02N/01W-12D04 H		--	8.0	160	7.6	7.8	13	0.9	0.0	78	6.6	9.5	0.4	--	0.0	--	98	51
07/21/67 5050					.38	.64	.57	.02		1.28	.14	.27	.01				84	0
0800 5050					24	40	35	1		75	8	16	1					
03N/01W-05K01 H		--	8.0	149	--	--	14	--	0.0	54	--	15	--	--	--	--	--	40
07/20/67 5050							.61			.89		.42						0
1045 5050																		
03N/01W-18A01 H		--	8.6	491	27	35	22	2.5	11	234	25	15	0.7	--	0.0	--	242	212
07/20/67 5050					1.35	2.88	.96	.06	.37	3.84	.52	.42	.01				253	2
1230 5050					26	55	18	1	7	74	10	8						
03N/01W-30N01 H		57.5F	8.2	552	--	--	11	--	0.0	287	--	14	--	--	0.1	--	--	277
07/20/67 5050							.48			4.71		.39						42
1335 5050																		
03N/02W-35M01 H		--	8.7	920	--	--	86	--	8.0	255	--	129	--	--	--	--	--	258
07/20/67 5050							3.74		.27	4.18		3.64						36
1605 5050																		

TABLE E-2

TRACE ELEMENT ANALYSES OF GROUND WATER

NORTH COASTAL AREA

State Well Number (MDB & M)	Date	Constituents in parts per million						
		Al	As	Cu	Fe (Total)	Pb	Mn	Zn
BUTTE VALLEY (1-3)								
46N/1W-17L1	8-2-67		0.00					
46N/2W-25R2	8-2-67		0.00					
48N/1E-31A1	8-2-67		0.01					
48N/1E-31D3	8-2-67	0.03	0.00	0.00	0.17	0.00	0.00	0.00
48N/1W-25Q1	8-2-67		0.04					

THIS BOOK IS DUE ON THE LAST DATE
STAMPED BELOW

BOOKS REQUESTED BY ANOTHER BORROWER
ARE SUBJECT TO RECALL AFTER ONE WEEK.
RENEWED BOOKS ARE SUBJECT TO
IMMEDIATE RECALL

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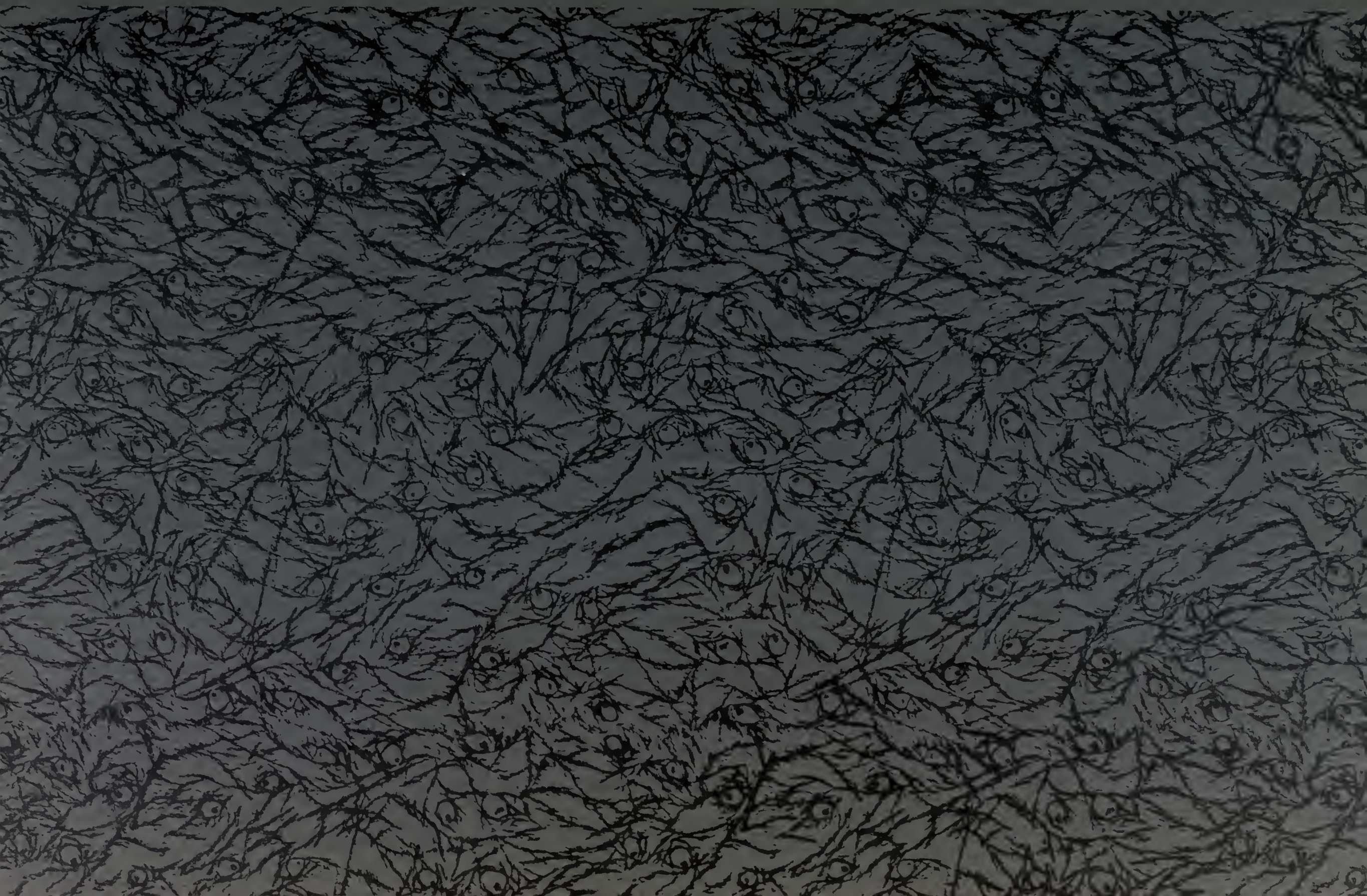
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