Water Resources Data California Water Year 1995

Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line except Central Valley

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-95-2
Prepared in cooperation with the California Department of Water Resources and with other agencies

CALENDAR FOR WATER YEAR 1995

1994

OCTOBER

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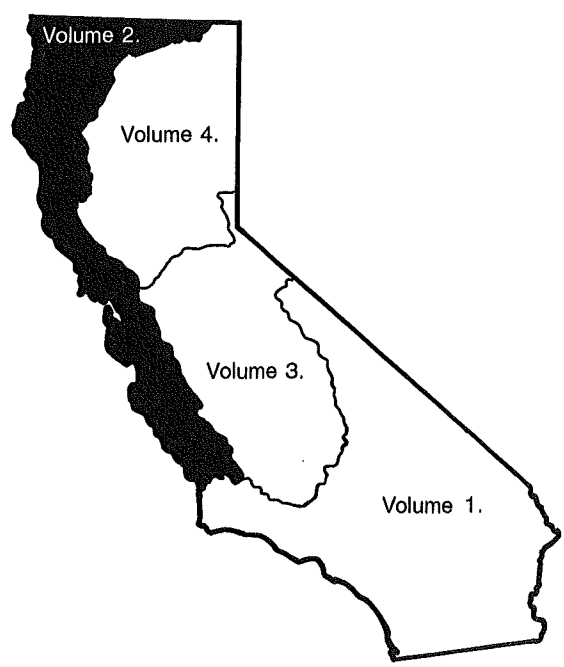
Water Resources Data California Water Year 1995

Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line except Central Valley

by M.F. Friebel, L.F. Trujillo, and K.L. Markham



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-95-2
Prepared in cooperation with the California Department of Water Resources and with other agencies

U.S. DEPARTMENT OF THE INTERIOR

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U.S. GEOLOGICAL SURVEY

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1996

PREFACE

This volume of the annual hydrologic data report of California is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and water quality provide the hydrologic information needed by Federal, State, and local agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for California are contained in four volumes:

Volume 1. Southern Great Basin from Mexican Border to Mono Lake Basin and Pacific Slope Basins from the Tijuana River to Santa Maria River

Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line except Central Valley

Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River

Volume 4. Northern Central Valley Basins and The Great Basin from Honey Lake Basin to Oregon State Line

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines, the individuals contributing significantly to the collection, processing, and tabulation of the data are given on page V.

This report was prepared in cooperation with the California Department of Water Resources and with other agencies, under the general supervision of Michael V. Shulters, District Chief, California.

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13. ABSTRACT *(Maximum 200 words)*
Water-resources data for the 1995 water year for California consist of records of stage, discharge, and water quality of streams; stage and contents in lakes and reservoirs; and water levels and water quality in wells. Volume 2 contains discharge records for 111 streamflow-gaging stations, 1 low-flow partial-record streamflow station, and 2 miscellaneous measurement stations; stage and contents for 6 lakes and reservoirs; precipitation records for 1 station; and water-quality records for 22 streamflow-gaging stations. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and with other agencies.

14. SUBJECT TERMS
*California, *Hydrologic data, *Surface water, Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediment, Water temperature, Sampling sites

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ILLUSTRATIONS

SURFACE-WATER AND WATER-QUALITY STATIONS,
IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

[Letters after station name designate type of data: (d), discharge; (l), elevation, gage heights, or contents; (c), chemical; (b), biological; (p), precipitation; (g), gage height; (t), water temperature; and (s), sediment]

SURFACE-WATER AND WATER-QUALITY STATIONS,
IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued

DISCONTINUED GAGING STATIONS

The following continuous-record streamflow stations in California have been discontinued or converted to partial-record stations. Daily records were collected and are stored in WATSTORE for the period of record shown for each station.

Station No.	Station name	Drainage area (mi^2)	Period of record
11141150	Arroyo Grande above Phoenix Creek, near Arroyo Grande	13.4	1967-92
11141160	Wittenberg Creek near Arroyo Grande	3.11	1967-75
11141300	Arroyo Grande near Arroyo Grande	68.3	1958-66
11141400	Tar Spring Creek near Arroyo Grande	18.2	1968-79
11141500	Arroyo Grande at Arroyo Grande	102	1940-86
11141600	Los Berros Creek near Nipomo	15	1968-78
11142080	Morro Creek at Morro Bay	24	1971-78
11142100	Toro Creek near Morro Bay	18	1971-78
11142200	Santa Rosa Creek near Cambria	12.5	1957-72
11142240	Perry Creek at Cambria	22.9	1988-89
11142300	San Simeon Creek near Cambria	26.3	1988-89
11142500	Arroyo de la Cruz near San Simeon	41.2	1951-79
11142550	San Carpoforo Creek near San Simeon	34.6	1978
11142800	Rat Creek near Lucia	.82	1961-63
11143300	Arroyo del Rey at Del Rey Oaks	13.8	1967-78
11143500	Salinas River near Pozo	70.3	1943-83
11144000	Toro Creek near Pozo	9.56	1961-69, 1972-83
11144200	Salsipuedes Creek near Pozo	5.91	1970-83
11144600	Salinas River below Salinas Dam, near Pozo	112	1974-86
11145000	Salinas River above Pilitas Creek, near Santa Margarita	114	1942-75
11145500	Salinas River near Santa Margarita	149	1922, 1932-49
11147000	Jack Creek near Templeton	25.3	1950-78
11147040	Santa Rita Creek Tributary near Templeton	2.95	1967-72
11147070	Santa Rita Creek near Templeton	18.2	1962-94
11147600	Huerhuero Creek near Creston	101	1959-72
11147700	Cholame Creek Tributary near Cholame	9.26	1959-65
11147800	Cholame Creek near Shandon	227	1959-72
11148000	Estrella Creek near Paso Robles	787	1940-41
11148800	Nacimiento River near Bryson	147	1958-71
11149500	Nacimiento River near San Miguel	349	1940-57
11149650	Sulphur Springs Canyon near Jolon	5.16	1968-69
11150800	Cow Creek near San Ardo	4.8	1961-64
11151000	San Lorenzo Creek near King City	210	1940-42
11151500	San Lorenzo Creek at King City	259	1943-45
11151870	Arroyo Seco near Greenfield	113	1961-86
11152570	Alisal Creek near Salinas	14.2	1971-74
11152650	Reclamation Ditch near Salinas	53.2	1971-86
11152900	Cedar Creek near Bell Station	12.8	1962-82
11153000	Pacheco Creek near Dunneville	146	1940-82
11153040	Pacheco Creek at Dunneville	154	1982-85
11153470	Llagas Creek above Chesbro Reservoir, near Morgan Hill	9.63	1972-82
11153500	Llagas Creek near Morgan Hill	19.6	1952-71
11153700	Pajaro River near Gilroy	399	1959-82
11153790	Uvas Creek at Sveadal	2.88	1973-74
11153800	Alec Canyon near Morgan Hill	.91	1970-72
11153900	Uvas Creek above Uvas Reservoir, near Morgan Hill	21	1961-82
11154000	Uvas Creek near Morgan Hill	30.4	1931-57
11154100	Bodfish Creek near Gilroy	7.40	1960-82
11154200	Uvas Creek near Gilroy	71.2	1959-92
11154500	Pajaro River at Sargent	505	1941
11156000	San Benito River below McCoy Creek, near Hernandez	108	1950-53, 1960-63
11156450	Willow Creek Tributary near San Benito	1.24	1964-69
11156700	Pescadero Creek near Paicines	38.3	1959-70
11157500	Tres Pinos Creek near Tres Pinos	206	1941-83
11158500	San Benito River near Hollister	586	1950-83
11158900	Pescadero Creek near Chittenden	10.2	1970-81
11159150	Corralitos Creek near Corralitos	10.6	1958-72
11159400	Green Valley Creek near Corralitos	7.05	1964-67
11159500	Pajaro River at Watsonville	1,272	1912-13, 1972-73
11159690	Aptos Creek near Aptos	10.2	1972-85
11159700	Aptos Creek at Aptos	12.2	1959-72
11159800	West Branch Soquel Creek near Soquel	12.2	1959-72
11159940	Soquel Creek near Soquel	32.0	1969-72
11160020	San Lorenzo River near Boulder Creek	6.17	1968-93
11160060	Bear Creek at Boulder Creek	16.0	1977-93
11160070	Boulder Creek at Boulder Creek	11.3	1976-93
11160200	Newell Creek at Ben Lomond	8.98	1958-60
11160300	Zayante Creek at Zayante	11.1	1957-93
11161500	Branciforte Creek at Santa Cruz	17.3	1940-43, 1952-68
11161570	Majors Creek near Santa Cruz	3.77	1970-76
11161590	Laguna Creek near Davenport	3.07	1970-76

DISCONTINUED GAGING STATIONS--Continued

Station No.	Station name	Drainage area (mi^2)	Period of record
11161800	San Vicente Creek near Davenport	6.07	1970-85
11161900	Scott Creek above Little Creek, near Davenport	25.1	1959-73
11162000	Scott Creek near Davenport	27.3	1937, 1939-41
11162540	Butano Creek near Pescadero	18.3	1962-74
11162570	San Gregorio Creek at San Gregorio	50.9	1970-94
11162600	Purisima Creek near Half Moon Bay	4.83	1959-69
11162722	Spruce Branch at South San Francisco	.70	1965-69
11162900	Sharon Creek near Menlo Park	.38	1959-69
11162940	San Francisquito Creek below Ladera Dam site, near Stanford University	28.5	1962-70
11162950	San Francisquito Creek Tributary near Stanford University	.24	1959-64
11163000	Los Trancos Canal near Stanford University	--	1931-41
11163200	Los Trancos Creek Tributary near Stanford University	.42	1959-66
11163500	Los Trancos Creek at Stanford University	7.46	1931-41
11164000	Lagunita Canal at Stanford University	--	1931-41
11165500	San Francisquito Creek at Palo Alto	40.8	1931-41
11166500	Stevens Creek near Cupertino	18.1	1931-59
11166575	Permanente Creek near Monte Vista	3.86	1984-87
11166578	West Fork Permanente Creek near Monte Vista	2.98	1984-87
11167000	Alamitos Creek near Edenvale	34.5	1930-58
11167660	Ross Creek at San Jose	5.70	1962-70
11167700	Ross Creek below Jarvis Road, at San Jose	7.71	1972-74
11168500	Los Gatos Creek below Los Gatos	42.6	1945-53
11169800	Coyote Creek near Gilroy	109	1961-82
11170000	Coyote Creek near Madrone	196	1903-12, 1917-87
11170500	Coyote Creek at Coyote	204	1917-23
11171500	Coyote Creek near Edenvale	229	1917-62
11172000	Coyote Creek at San Jose	238	1917
11172100	Upper Penitencia Creek at San Jose	21.5	1962-87
11172500	Laguna Creek at Irvington	12.5	1917-19
11173000	Alameda Creek near Sunol	37.5	1912-30
11173500	Calaveras Creek near Sunol	98.7	1898-1908, 1911-30
11174000	San Antonio Creek near Sunol	37.0	1912-30, 1961-65
11174500	Alamo Creek at Dublin	38.7	1915-20
11174600	Alamo Canal near Pleasanton	40.8	1978-83
11175000	Tassajero Creek near Pleasanton	26.8	1915-19, 1922-30
11176090	Arroyo Mocho at Livermore	50.8	1984-86
11176100	Arroyo Las Positas above Livermore	7.82	1972-74
11176140	Altamont Creek near Livermore	13.4	1979-80
11176145	Arroyo Las Positas at Livermore	53.3	1980-86
11176150	Arroyo Las Positas near Livermore	64.6	1912-19, 1922, 1924-30
11176180	Arroyo Las Positas at El Charro Road, near Pleasanton	75.0	1978-83
11176200	Arroyo Mocho near Pleasanton	142	1962-86
11176300	Tassajara Creek near Pleasanton	26.8	1915-19, 1922-30, 1979-83
11176600	Arroyo Valle at Pleasanton	171	1958-86
11179500	Crandal Slough near Centerville	--	1917-18
11180000	Alameda Creek near Sunol	639	1917-19
11180750	Alameda Creek at Union City	653	1959-73
11180825	San Lorenzo Creek above Don Castro Reservoir, near Castro Valley	18.0	1981-94
11181000	San Lorenzo Creek at Hayward	37.5	1940, 1947-83
11181004	Castro Valley Creek at Castro Valley	.98	1979-80
11181006	Castro Valley Creek at Knox Street, at Castro Valley	2.20	1978-80, 1989-93
11181300	Peralta Creek at Oakland	1.67	1973
11181330	Temescal Creek above Lake Temescal, at Oakland	1.74	1979-81, 1989-93
11181335	Caldecott Creek at Lake Temescal, at Oakland	.83	1980-81
11181400	Wildcat Creek at Richmond	8.67	1964-75
11182030	Rheem Creek at San Pablo	1.49	1961-90
11182100	Pinole Creek at Pinole	10.0	1939-70, 1972-77
11182400	Arroyo del Hambre at Martinez	15.1	1965-82
11182800	San Ramon Creek near Walnut Creek	47.9	1973-92
11183000	San Ramon Creek at Walnut Creek	50.8	1953-73
11183500	Walnut Creek at Walnut Creek	79.2	1953-68
11183600	Walnut Creek at Concord	85.2	1968-92
11183700	Little Pine Creek near Alamo	1.22	1975-89
11184000	Galindo Creek at Concord	7.74	1955-58
11184500	Pine Creek at Concord	28.3	1953-60
11455900	Napa River at Calistoga	21.9	1976-83
11455950	Sulphur Creek near St. Helena	4.50	1966-67
11456500	Conn Creek near Oakville	55.4	1930-59, 1971-75
11457000	Dry Creek near Napa	17.4	1951-66
11457500	Dry Creek near Yountville	18.7	1941

DISCONTINUED GAGING STATIONS--Continued

Station No.	Station name	Drainage area (mi^2)	Period of record
11458100	Milliken Creek near Napa	17.3	1971-83
11458200	Redwood Creek near Napa	9.79	1958-73
11458300	Napa Creek at Napa	14.9	1971-83
11458350	Tulucay Creek at Napa	12.6	1972-83
11458500	Sonoma Creek at Agua Caliente	58.4	1955-81
11459000	Petaluma River at Petaluma	30.9	1949-63
11459300	San Antonio Creek near Petaluma	28.9	1975-81
11459800	San Rafael Creek at San Rafael (REVISED RECORDS IN WDR CA-91-2)	1.24	1972-76
11459830	Irwin Creek at San Rafael	--	1972-76
11460000	Corte Madera Creek at Ross	18.1	1951-93
11460100	Arroyo Corte Madera del Presidio at Mill Valley	4.69	1966-73, 1975-86
11460160	Morses Creek at Bolinas	.70	1967-69
11460500	Nicasio Creek at Point Reyes Station	36.6	1954-60
11460800	Walker Creek near Tomales	40.1	1959-84
11460920	Salmon Creek at Bodega	15.7	1962-75
11460940	Russian River near Redwood Valley	14.1	1963-68
11461400	East Fork Russian River Tributary near Potter Valley	.15	1959-61
11462700	Feliz Creek near Hopland	31.3	1958-66
11463160	Big Sulphur Creek near Middletown	2.89	1978-79
11463500	Russian River at Geyserville	655	1911-13
11463900	Maacama Creek near Kellogg	43.4	1961-81
11463940	Franz Creek near Kellogg	15.7	1964-68
11464050	Dry Creek Tributary near Hopland	1.19	1968-69
11464400	Dry Creek near Yorkville	56.0	1974-83
11464860	Warm Springs Creek near Asti	12.2	1973-83
11465050	Dutcher Creek near Asti	2.24	1973
11465150	Pena Creek near Geyserville	22.3	1979-90
11465800	Santa Rosa Creek near Santa Rosa	12.5	1959-70
11466200	Santa Rosa Creek at Santa Rosa	56.6	1940-41
11467200	Austin Creek near Cazadero	63.1	1959-66
11467500	South Fork Gualala River near Annapolis	161	1951-71, 1991-94
11467510	South Fork Gualala River near the Sea Ranch	161	1991-92
11467600	Garcia River near Point Arena	98.5	1962-83
11467800	Rancheria Creek near Boonville	65.6	1959-68
11467850	Soda Creek Tributary near Boonville	1.53	1965-68
11468010	Albion River near Comptche	14.4	1961-69
11468070	South Fork Big River near Comptche	36.2	1960-71
11468150	Warner Creek near Fort Bragg	.61	1969
11468540	Pudding Creek near Fort Bragg	12.5	1964-71
11468850	Dunn Creek near Rockport	1.88	1961-64
11468990	Honeydew Creek near Honeydew	14.9	1973-77
11469500	North Fork Mattole River at Petrolia	37.6	1951-57
11469800	Cold Creek Tributary near Elk Creek	.81	1970
11471800	Tomki Creek near Willits	43.4	1963-70
11472000	Eel River at Hearst	466	1911-13
11472150	Eel River near Dos Rios	528	1967-94
11472200	Outlet Creek near Longvale	161	1957-94
11472500	Eel River above Dos Rios	705	1951-65
11472800	Middle Fork Eel River above Black Butte River, near Covelo	204	1968-70
11472900	Black Butte River near Covelo	162	1959-75
11473000	Middle Fork Eel River below Black Butte River, near Covelo	367	1952-67
11473100	Williams Creek near Covelo	30.4	1962-69
11473500	Middle Fork Eel River near Covelo	406	1912-18, 1920-22
11473530	Mill Creek below Alder Creek, near Covelo	17.1	1962-65
11473600	Short Creek near Covelo	15.2	1959-69
11473700	Mill Creek near Covelo	95.6	1956-71
11473800	Elk Creek near Hearst	84.1	1964-73
11473900	Middle Fork Eel River near Dos Rios	745	1966-94
11473980	Goforth Creek at Dos Rios	3.83	1966-68
11474000	Eel River below Dos Rios	1,484	1912-13, 1952-66
11474400	Hulls Creek near Covelo	25.9	1962-64
11475500	South Fork Eel River near Branscomb	43.9	1947-70
11475700	Tenmile Creek near Laytonville	50.3	1958-74
11475940	East Branch South Fork Eel River near Garberville	74.3	1966-72
11476000	South Fork Eel River at Garberville	468	1912-13, 1940
11476700	Larabee Creek near Holmes	84.1	1960-65
11477500	Van Duzen River near Dinsmore	85.2	1954-58, 1964-74
11477700	Little Van Duzen River near Bridgeville	36.2	1958-67
11478000	Van Duzen River at Bridgeville	202	1912-13, 1940-51
11478400	Van Duzen River Tributary near Bridgeville	.71	1969
11479000	Yager Creek near Carlotta	127	1954-55, 1957-60, 1966-72
11479500	Yager Creek at Carlotta	134	1912-13
11479700	Elk River near Falk	44.2	1958-67
11480000	Jacoby Creek near Freshwater	5.80	1955-64

DISCONTINUED GAGING STATIONS--Continued

Station No.	Station name	Drainage area (mi^2)	Period of record
11480500	Mad River near Forest Glen	143	1953-94
11480750	Mad River near Kneeland	351	1966-74
11480800	North Fork Mad River near Korbel	40.4	1958-64, 1973-74
11481200	Little River near Trinidad	40.5	1956-94
11481500	Redwood Creek near Blue Lake	67.7	1953-58, 1972-93
11482000	Redwood Creek near Korbel	83.0	1912-13
11482110	Lacks Creek near Orick	16.9	1980-91
11482120	Redwood Creek above Panther Creek, near Orick	150	1981-89
11482125	Panther Creek near Orick	6.07	1979-91
11482130	Coyote Creek near Orick	7.78	1980-82, 1984-89
11482200	Redwood Creek at South Park Boundary, near Orick	185	1971-81
11482468	Little Lost Man Creek at Site No. 2, near Orick	3.46	1974-82, 1985-89
11488700	Dry Lake Tributary at Perez	1.74	1963-66
11489500	Antelope Creek near Tennant	18.6	1953-79
11490000	Antelope Creek near Macdoel	30	1922
11490500	Butte Creek near Macdoel	178	1922, 1952-60
11512000	Fall Creek at Copco	14.6	1933-59
11512500	Klamath River below Fall Creek, near Copco	4,317	1924-61
11516600	Cottonwood Creek at Hornbrook	89.8	1965-71
11516900	Little Shasta River near Montague	48.2	1958-78
11517000	Shasta River near Montague	673	1912-13, 1917-21, 1924-33
11517800	Beaver Creek near Klamath River	106	1960-65
11517900	East Fork Scott River below Houston Creek, near Callahan	19.7	1970-73
11517950	East Fork Scott River above Kangaroo Creek, near Callahan	49.5	1970-73
11518000	East Fork Scott River near Callahan	57.5	1911
11518050	East Fork Scott River at Callahan	110	1960-74
11518200	South Fork Scott River near Callahan	41.5	1959-60
11518300	Sugar Creek near Callahan	12.0	1957-60
11518310	Cedar Gulch near Callahan	.99	1966-73
11518600	Moffett Creek near Fort Jones	69.8	1959-67
11519000	Shackleford Creek near Mugginsville	17.7	1957-60
11520000	Scott River near Scott Bar	804	1912-13
11521000	Klamath River near Happy Camp	7,024	1912
11522200	Elk Creek near Happy Camp	90.4	1957-64
11522260	Ti Creek near Somes Bar	9.46	1961-64
11522300	South Fork Salmon River near forks of Salmon	252	1957-65
11522400	North Fork Salmon River near forks of Salmon	203	1959-64
11523030	Red Cap Creek near Orleans	56.1	1958-65
11523050	Bluff Creek near Weitchpec	74.6	1959-65
11523700	Coffee Creek near Trinity Center	107	1911-13, 1958-66
11524000	Trinity River near Trinity Center	300	1911-13
11525655	Trinity River below Limekiln Gulch, near Douglas City	812	1981-91
11525800	Weaver Creek near Douglas City	48.4	1959-69
11525900	Browns Creek near Douglas City	71.6	1957-67
11526000	Trinity River near Douglas City	1,014	1944-51
11527400	New River at Denny	173	1928-29, 1959-69
11528000	Trinity River near China Flat	1,733	1912-13
11528100	South Fork Trinity River at Forest Glen	208	1960-65
11528200	South Fork Trinity River near Hyampom	342	1956-65
11528400	Hayfork Creek near Hayfork	86.7	1957-65
11528440	Big Creek near Hayfork	27.1	1961, 1963-67
11529500	South Fork Trinity River near China Flat	932	1912-13
11529800	Willow Creek near Willow Creek	40.9	1959-74
11530020	Supply Creek at Hoopa	15.8	1981-87
11530150	Mareep Creek near Weitchpec	3.56	1967-69
11530500	Klamath River near Klamath	12,000	1910-26, 1950-94
11531000	Middle Fork Smith River at Gasquet	131	1912-17, 1959-65
11531500	North Fork Smith River at Gasquet	158	1912-13
11532700	Rowdy Creek at Smith River	33.3	1957-62
11533000	Lopez Creek near Smith River	.92	1962-66

DISCONTINUED LAKES AND RESERVOIRS

The following continuous-record lake stations in California have been discontinued. Daily records were collected and are stored in WATSTORE for the period of record shown for each location.

Station No.	Station name	Drainage area (mi^2)	Period of record
11144500	Santa Margarita Lake near Pozo	112	1945-86
11166740	Calero Reservoir near New Almaden	6.93	1936-85
11461800	Lake Mendocino near Ukiah	105	1966-90
11464900	Lake Sonoma near Geyserville	130	1984-90

DISCONTINUED WATER-QUALITY STATIONS

The following continuous water-quality stations in California have been discontinued. Daily records were collected and are stored in WATSTORE for the period of record shown for each location.

Station No.	Station name	Drainage area (mi^2)	Type of record	Period of record
11141150	Arroyo Grande above Phoenix Creek, near Arroyo Grande	13.4	WQ,S,T	1967-73, 1977, 1990
11141280	Lopez Creek near Arroyo Grande	20.9	WQ,S,T	1968-72, 1977
11143000	Big Sur River near Big Sur	46.5	WQ,T	1966-79
11143250	Carmel River near Carmel	246	WQ	1954-66
11147040	Santa Rita Creek Tributary near Templeton	2.95	T	1968-72
11147070	Santa Rita Creek near Templeton	18.2	S	1968-72
11147500	Salinas River at Paso Robles	390	WQ,S	1963-66
11148800	Nacimiento River near Bryson	147	T,S	1959, 1961-71
11148900	Nacimiento River below Sapaque Creek, near Bryson	162	T	1972-73
11149400	Nacimiento River below Nacimento Dam, near Bradley	329	WQ	1963-66
11149700	San Antonio River at Sam Jones Bridge	204	T,S	1959, 1961-62, 1964-65
11149900	San Antonio River near Lockwood	217	T	1966-73
11150000	San Antonio River at Pleyto	277	T,S	1962, 1965
11151870	Arroyo Seco near Greenfield	113	S	1963-75, 1978-84
11152300	Salinas River near Chualar	4,042	C,T,S	1967-69, 1977-81
11152500	Salinas River near Spreckels	4,156	C,T,S	1950-51, 1967-79
11153470	Llagas Creek above Chesbro Reservoir, near Morgan Hill	9.63	T	1972-78
11153555	Llagas Creek at San Martin	28.2	WQ,S	1980-87; 1989-91
11153900	Uvas Creek above Uvas Reservoir, near Morgan Hill	21	T,S	1966-76
11154700	Clear Creek near Idria	14.1	T	1993-94
11159000	Pajaro River at Chittenden	1,186	B,C,T, WQ,S	1952-92
11160000	Soquel Creek at Soquel	40.2	T	1966-79
11160500	San Lorenzo River at Big Trees	106	S,T	1966-82
11162500	Pesadero Creek near Pesadero	45.9	T	1965-80
11162720	Colma Creek at South San Francisco	10.8	S	1966-76
11162722	Spruce Branch at South San Francisco	1.68	S	1965-69
11166575	Permanente Creek near Monte Vista	3.86	T,S	1984-87
11166578	West Fork Permanente Creek near Monte Vista	2.98	T,S	1985-86
11166710	Arroyo Calero above Calero Reservoir, near New Almaden	3.14	WQ	1986-90
11166900	Alamitos Creek near New Almaden	31.8	WQ,S	1985-91
11167500	Guadalupe Creek at Guadalupe	12.8	WQ,S	1980-91
11168000	Los Gatos Creek at Los Gatos	39.0	WQ	1952-66, 1980-87, 1989-91
11168800	Los Gatos Creek at Lincoln Avenue, at San Jose	48.4	WQ	1980-87, 1989-91
11169580	Calabazas Creek Tributary No. 1 at Mt. Eden Road	.37	T	1973-77
11169600	Prospect Creek above Saratoga Golf Course, near Saratoga	.27	T	1973-75
11169616	Calabazas Creek at Rainbow Drive, near Cupertino	3.98	T	1974-77
11169800	Coyote Creek near Gilroy	109	T,S	1965-76
11169970	Coyote Creek below Leroy Anderson Dam, near Madrone	195	WQ,S	1980-88, 1990-91
11171500	Coyote Creek near Edenvale	229	WQ,S	1979-88, 1990-91
11174600	Alamo Canal near Pleasanton	40.8	C	1979-83
11176000	Arroyo Mocho near Livermore	38.2	C	1979-83
11176140	Altamont Creek near Livermore	13.4	C	1979-80
11176145	Arroyo Las Positas at Livermore	53.3	C	1980-83
11176180	Arroyo Las Positas at El Charro, near Pleasanton	75.0	C	1980-83
11176200	Arroyo Mocho near Pleasanton	142	C	1980-84
11176300	Tassajara Creek near Pleasanton	26.8	C	1979-83
11176350	Arroyo de la Laguna above Arroyo Valle, near Pleasanton	224	T,S	1975-79
11176400	Arroyo Valle below Lang Canal, near Livermore	130	S	1963, 1965
11176500	Arroyo Valle near Livermore	147	S	1966-67

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station No.	Station name	Drainage area (mi^2)	Type of record	Period of record
11176600	Arroyo Valle at Pleasanton	171	T,S	1975-79
11176900	Arroyo de la Laguna above bridge, near Pleasanton	--	T	1960-63
11177000	Arroyo de la Laguna near Pleasanton	405	C	1979-83
11177200	Vallecitos Creek at Sunol	7.48	C	1975-86
11179000	Alameda Creek near Niles	633	WQ,S,T,C	1906, 1952-73, 1975-93
11180825	San Lorenzo Creek above Don Castro Reservoir, near Castro Valley	18.0	T,S	1981-94
11180940	Cull Creek Tributary No. 4 above Cull Creek Reservoir, near Castro Valley	.45	S	1981, 1986, 1989, 1992
11180965	Cull Creek below Cull Creek Dam, near Castro Valley	6.37	T,S	1979
11181040	San Lorenzo Creek at San Lorenzo	44.6	T,S	1989-93
11181330	Temescal Creek above Lake Temescal, at Oakland	1.74	WQ,S	1979-81
11181390	Wildcat Creek at Vale Road, at Richmond	7.79	S	1978-80
11456000	Napa River near St. Helena	81.4	S	1961-62
11458000	Napa River near Napa	218	WQ,C,S,T	1971, 1973-93
11460000	Corte Madera Creek at Ross	18.1	S	1978-80
11460015	Corte Madera Creek at College Avenue, at Kentfield	18.2	S	1988-89
11460170	Pine Creek at Bolinas	7.83	T,S	1967, 1969-70
11460600	Lagunitas Creek near Point Reyes	81.7	T,S	1989-90
11460920	Salmon Creek at Bodega	15.7	T,S	1964-75
11461000	Russian River near Ukiah	100	WQ,S,B,T	1964-68, 1977-79, 1990-92
11461500	East Fork Russian River near Calpella	92.2	S	1965-68
11462000	East Fork Russian River near Ukiah	105	WQ,S,B,T	1953-55, 1964-68, 1973-94
11462500	Russian River near Hopland	362	WQ,T,S	1951-79, 1989-93
11463000	Russian River near Cloverdale	503	S	1964-68
11463160	Big Sulphur Creek near Middletown	2.89	T,S	1978-79
11463200	Big Sulphur Creek near Cloverdale	85.5	S	1967-68
11464000	Russian River near Healdsburg	793	WQ	1951-66, 1979-80
11464500	Dry Creek near Cloverdale	87.8	T	1965-79
11465150	Pena Creek near Geyserville	22.3	S	1979-86
11465000	Dry Creek below Warm Springs Dam, near Geyserville	131	T	1981-94
11465200	Dry Creek near Geyserville	162	WQ,S,T	1964-86
11467000	Russian River near Guerneville	1,338	C,B,WQ	1951-94
11467600	Garcia River near Point Arena	98.5	T	1964-78
11468000	Navarro River near Navarro	--	T	1965-79
11468600	Middle Fork Ten Mile River near Fort Bragg	32.9	T	1965-73
11471000	Potter Valley Powerhouse intake near Potter Valley	--	S	1964-68
11472150	Eel River near Dos Rios	528	S	1967-77
11472200	Outlet Creek near Longvale	161	S	1967-70
11472500	Eel River above Dos Rios	705	T,S	1959, 1962-82
11472800	Middle Fork Eel River above Black Butte River, near Covelo	204	T,S	1966, 1969-70
11472900	Black Butte River near Covelo	162	T,S	1964-66, 1968-75
11473000	Middle Fork Eel River below Black Butte River, near Covelo	367	T,S	1961-63, 1968-79
11473800	Elk Creek near Hearst	84.1	T	1965-73
11473900	Middle Fork Eel River near Dos Rios	745	C,S	1967-69
11474500	North Fork Eel River near Mina	248	T,S	1973-75
11474700	Chamise Creek near Island Mountain	22.6	T,S	1973-75
11475000	Eel River at Fort Seward	2,107	S	1966-76
11475100	Dobbyn Creek near Fort Seward	61.4	T,S	1973-76
11475500	South Fork Eel River near Branscomb	43.9	T,S	1961-70
11475560	Elder Creek near Branscomb	6.50	T	1968-79
11476500	South Fork Eel River near Miranda	537	S	1981
11476600	Bull Creek near Weott	28.1	S	1960-80
11477000	Eel River at Scotia	3,112	B,C,T,S	1952-95
11477500	Van Duzen River near Dinsmore	85.2	T	1966-74
11477700	Little Van Duzen River near Bridgeville	36.2	T	1961-65
11480700	Maple Creek near Blue Lake	12.1	T	1969
11480750	Mad River near Kneeland	351	T	1966-74
11480780	Mad River near Blue Lake	393	T	1973-76
11481000	Mad River near Arcata	485	S	1960-74
11481500	Redwood Creek near Blue Lake	67.7	WQ	1974-75
11482110	Lacks Creek near Orick	16.9	C,S	1975-76, 1978-91
11482120	Redwood Creek above Panther Creek, near Orick	150	S	1988-89
11482125	Panther Creek near Orick	6.07	T,S	1979-91
11482130	Coyote Creek near Orick	7.78	T,S	1980
11482200	Redwood Creek at South Park Boundary, near Orick	185	T	1974-81
11482468	Little Lost Man Creek at Site No. 2, near Orick	3.46	WQ,S	1974-76, 1978-82, 1985-89
11482500	Redwood Creek at Orick	277	WQ	1959-66, 1973-81
11516600	Cottonwood Creek at Hornbrook	89.8	T	1965-71

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station No.	Station name	Drainage area (mi^2)	Type of record	Period of record
11523000	Klamath River at Orleans	8,475	S	1967-79
11525500	Trinity River at Lewiston	719	WQ,T,S	1951-83
11525550	Grass Valley Creek near French Gulch	7.93	S	1985-89
11525655	Trinity River below Limekiln Gulch, near Douglas City	812	T,S	1981-91
11526500	North Fork Trinity River at Helena	151	T,S	1963
11528200	South Fork Trinity River near Hyampom	342	T	1961-65
11528500	Hayfork Creek near Hyampom	378	T	1961-74
11528700	South Fork Trinity River below Hyampom	764	S	1967-70, 1981-82
11529000	South Fork Trinity River near Salyer	898	T,S	1959-67, 1981-82
11530000	Trinity River at Hoopa	2,853	S	1960-79
11530020	Supply Creek at Hoopa	15.8	T,S	1982-85
11530300	Blue Creek near Klamath	120	T	1966-78
11530500	Klamath River near Klamath	12,100	B,C,T	1966-81
11532000	South Fork Smith River near Crescent City	291	T,S	1978-79
11532500	Smith River near Crescent City	614	WQ,C,B, S,T	1952-93
11532620	Mill Creek near Crescent City	28.6	T	1974-80
353339121053900	Santa Rosa Creek on Highway 1 Bridge, at Cambria	46.6	WQ	1988-89
353406121061100	Santa Rosa Creek at Windson Boulevard, near Cambria	47.1	WQ	1988-89
353635121043101	San Simeon Creek at Palmer Flats, near Cambria	23.1	WQ	1988-89
371057121472501	Calero Reservoir at dam, near New Almaden	6.93	WQ,B	1978-79, 1984-91
375658122324000	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 0	--	S	1988-89
375701122324200	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 1	--	S	1988-89
375704122324200	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 2	--	S	1988-89
375710122324000	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 3	--	S	1990
375711122324600	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 4	--	S	1988-89
375712122325100	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 5	--	S	1988-89
375712122325200	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 6	--	S	1988-89

Type of record: WQ (Water quality); B (Biological); C (Conductivity); T (Temperature); S (Sediment).

WATER RESOURCES DATA--CALIFORNIA, WATER YEAR 1995

VOLUME 2--PACIFIC SLOPE BASINS FROM ARROYO GRANDE TO OREGON STATE LINE EXCEPT CENTRAL VALLEY

By M.F. Friebel, L.F. Trujillo, and K.L. Markham

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State and Federal agencies, obtains a large amount of data pertaining to the water resources of California each water year. These data, accumulated during many water years, constitute a valuable database for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in this report series entitled "Water Resources Data--California."

This volume of the report includes records on surface water in the State. Specifically, it contains (1) discharge records for 111 streamflow-gaging stations, 1 low-flow partial-record streamflow station, and 2 miscellaneous measurement stations; (2) stage and contents records for 6 lakes and reservoirs; (3) precipitation records for 1 station; and (4) water-quality records for 22 streamflow-gaging stations. Records included for stream stages are only a small fraction of those obtained during the water year.

The series of annual reports for California began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format changed to include data on quantities of surface water, quality of surface and ground water, and ground-water levels. Beginning with the 1985 water year, a separate volume for ground-water levels and quality was published for California.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for California were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 10 and 11." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." These Water-Supply Papers may be consulted in public libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Map Distribution, Box 25286, MS 306, Denver Federal Center, Denver, CO 80225.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. Each report has an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report CA-95-2." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Office at the address given on the back of the title page or by telephone (916) 979-2605.

COOPERATION

The U.S. Geological Survey and organizations of the State of California have had cooperative agreements for the systematic collection of records since 1903. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Alameda County Flood Control and Water Conservation District, Donald Labelle, Director of Public Works.
Alameda County Water District, James D. Beard, General Manager.
California Department of Parks and Recreation, Henry R. Agonia, Director.

California Department of Water Resources, David N. Kennedy, Director.
Contra Costa County Flood Control and Water Conservation District, Milton Kubicek, Deputy Chief.
Humboldt Bay Municipal Water District, Arthur Bolli, General Manager.
Marin Municipal Water District, Ronald L. Johnson, General Manager.
Mendocino County Water Agency, Dennis Slota, Hydrologist.
Monterey County Water Resources Agency, William Hurst, General Manager.
Monterey Peninsula Water Management District, William Hurst, Interim General Manager.
San Benito County Water District, William Rupert, District Manager.
San Francisco Water Department, John Mullane, General Manager.
San Luis Obispo County Engineering Department, Clinton Milne, County Engineer.

Santa Clara Valley Water District, Leo F. Cournoyer, Water Supply Manager.
Santa Cruz, city of, Water Department, Terry Tompkins, Deputy Director.
Santa Cruz County Flood Control and Water Conservation District, Planning Department, Ken Hart, Program Manager.
Scotts Valley Water District, Jon Sansing, General Manager.
Sonoma County Planning Department, Jim Olmsted, Assistant Planning Director.
Sonoma County Water Agency, Randy Poole, General Manager.
Soquel Creek Water District, Robert M. Johnson, Jr., General Manager--Chief Engineer

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army; Bureau of Land Management; Bureau of Reclamation and National Park Service, U.S. Department of the Interior.

The following organizations aided in collecting records: Pacific Gas and Electric Company; PacifiCorp, Highland Hydro Constructors, STS Hydropower, and North Coast Hydroelectric.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 53 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream-Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. The 142 sites in NASQAN are located generally at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis and reporting that the data may be used fo;, (2) to describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; (3) to detect changes or trends with time in the pattern of occurrence of water-quality characteristics; and (4) to provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

NASQAN was redesigned in 1995 and will be known as NASQAN II beginning in 1996. NASQAN II will focus on four of the largest river basins in the Nation--the Mississippi, the Columbia, the Colorado, and the Rio Grande. The objective of NASQAN II is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and remobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of wet atmospheric deposition, which includes snow, rain, sleet and hail. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-qaulity conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in about two-thirds of the study units and ultimately will be conducted in 60 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Radiochemical Programs is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium Network is s network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data also are obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF THE RECORDS

The surface-water records published in this report are for the 1995 water year that began October 1, 1994, and ended September 30, 1995. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and contents data for lakes and reservoirs, and water-quality data for surface water. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station-Identification Numbers

Each streamsite data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream-order" system is used for regular surface-water stations and the "latitude-longitude" system is used for surface-water stations in California where only miscellaneous measurements are made.

Downstream-Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports has been in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station such as 11465350, which appears just to the left of the station name, includes the two-digit part number "11" plus the six-digit downstream-order number "465350." The part number designates the major river basin; for example, part "11" is the Pacific Slope Basins in California.

Latitude-Longitude System

The identification numbers for miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the other sites within a 1-second grid (fig. 1). This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description.

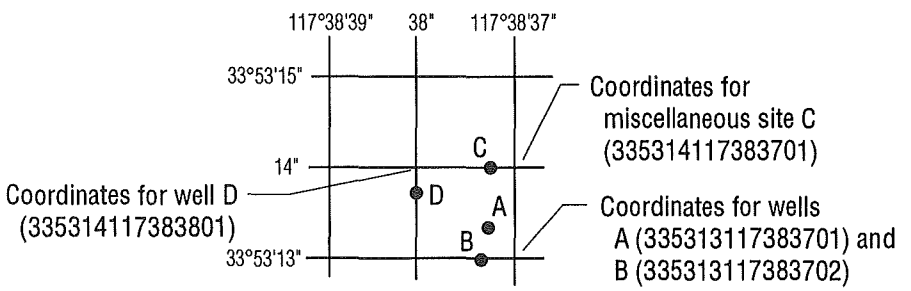


Figure 1. System for numbering miscellaneous sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake and reservoir contents, similarly, are those for which stage or contents may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and partial-record stations for which data are given in this report are shown, by county, in figures 2 through 18.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake contents. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the U.S. Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in U.S. Geological Survey Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI), Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge are prepared for any stage within the range of the measurements. If it is necessary to define extremes of discharge outside the range of current-meter measurements, the curves are extended using (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dam or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes or observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some gaging stations, acoustic velocity meter (AVM) systems are used to compute discharge. The AVM system measures the stream's velocity at one or more paths in the cross section. Coefficients are developed to relate this path velocity to the mean velocity in the cross section. Because the AVM sensors are fixed in position, the adjustment coefficients generally vary with stage. Cross-sectional area curves are developed to relate stage, recorded as noted above, to cross-section area. Discharge is computed by multiplying path velocity by the appropriate stage-related coefficient and area.

In computing records of lake or reservoir contents, it is necessary to have available surveys, curves, or tables defining the relation of stage and contents. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relation changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relation. When this is done, the contents computed may become increasingly in error as time increases since the last survey. Discharges over lake or reservoir spillways are computed from stage-discharge relations in the same manner as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following records, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station is given with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time when the present station was not, and whose location was such that records from it reasonably can be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report is given in which the most recently revised figure was published.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level (see Definition of Terms), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph also is used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station, and possibly to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year that are greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error is discovered in published records, a revision is included in the first report published following discovery of the error.

Occasionally the records of a discontinued gaging station may need revision. Because for these stations there would be no current or, possible, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office to determine if the published records were revised after the station was discontinued. If the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also usually is expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN."); or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS _____-_____,BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS _____-_____," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data also are given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes. At least 5 complete years of record must be available before this statistic is published for the designated period.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all the runoff for a given period were distributed on it uniformly.

10 PERCENT EXCEEDS.--The discharge that is exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements generally are made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing the table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage and discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second (ft^3/s) for values less than 1 ft^3/s, to the nearest tenth between 1.0 and 10 ft^3/s, to whole numbers between 10 and 1,000 ft^3/s, and to three significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the measured discharge.

Other Records Available

The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, maintains an index of sites as well as an index of records of discharge collected by other agencies but not published by the U.S. Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge measurement notes, gage-height records, temperature measurements, and rating tables are on file in the District Office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District Office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve various types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 2 through 18.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern is the assurance that the data obtained represent the in-situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, are made onsite when samples are taken. To assure that measurements made in the laboratory also represent the in-situ water, carefully prescribed procedures are followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in "Techniques of Water-Resources Investigations," Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. All these references are listed in the section "Publications on Techniques of Water-Resources Investigations". Also, detailed information on collecting, treating, and shipping samples may be obtained from the District Office.

One sample can adequately define the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream-Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative value available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values for each constituent measured and are based on hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the District Office.

Historical and current (1995) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter (ng/L). If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter (µg/L) and could reflect contamination introduced during some phase of the procedure.

Water Temperature

Water temperatures are measured at the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District Office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations measured immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with the ASTM standards and generally follow ISO standards.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of suspended sediment, bed material, and bedload are included for some stations.

Estimates of bedload and total-sediment discharge are included for some stations. Computations of monthly bedload discharges are based on the relation between instantaneous water discharge and corresponding bedload discharge for the station. Values of bedload discharge used in defining this relation are based on samples obtained by use of the Helley-Smith or BL 84 bedload samplers or by modified-Einstein or Meyer-Peter Muller computation procedures. Application of the bedload-transport relation at a station was made on a daily basis or subdivided-day basis. The bedload samplers are designed to collect time-weighted samples for the sediment moving within 0.25 ft of the streambed. Sediment moving in this portion of the flow cannot be sampled with standard suspended-sediment samplers. Calibration of the bedload samplers has not been completed, and a trap efficiency of 1.0 has been assumed applicable to these devices. Error sources in the theoretical methods, based on analysis of bed-material characteristics, channel geometry, and associated hydraulic factors, are also undefined. In consequence, figures of bedload discharge must be used with caution. They are estimates, at best, and are subject to revision.

Cross-Sectional Data

Cross-sectional surveys of water temperature, pH, specific conductance, dissolved oxygen, and suspended sediment are done at all NASQAN and Hydrologic Benchmark stations during various seasons and surface-water discharges. Documentation of cross-section variation of water quality is essential in order to determine how many samples in a cross section are necessary to ensure a representative composite sample.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the U.S Geological Survey's National Water-Quality Laboratory in Arvada, Colorado. Methods used to analyze sediment samples and to compute sediment records are described in the Techniques of Water-Resources Investigations, Book 5, Chapter C1. Methods used by the U.S. Geological Survey laboratories are given in TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and other data obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the individual parameters.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor, temperature recorder, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products ranging from data tables to complex statistical analyses, such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

* Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.

* Daily Values File - Contains more than 220 million daily values of streamflows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.

* Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.

* Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.

* Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data include site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, VA 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5 1/4-inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.)

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report are defined below. See the table for converting inch-pound units to International System (SI) Units on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by a well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease; others perform an essential role in nature in the recycling of materials, for example, decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. For the membrane filter method, these bacteria are defined as the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 0.5°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milligrams per liter of sample.

Fecal-coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. For the membrane filter method, they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milligrams per liter of sample.

Fecal-streptococcal bacteria are bacteria found in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. For the membrane filter method they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 0.5°C on KF streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milligrams per liter of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are the group of animals living in or on the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3) and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cell volume determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell numbers of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (that is, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combination of simple solids (that is, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere} \quad 4/3\ \pi r^3 \qquad \text{cone} \quad 1/3\ \pi r^3 h \qquad \text{cylinder} \quad \pi r^3 h.$$

From cell volume, total algal biomass expressed as biovolume ($\pi m^3/mL$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

Cells per volume (cells/volume) refers to the number of cells of any organism that are counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually in milliliters (mL) or liters (L).

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic foot per second-day (cfs/d) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters.

Discharge is the volume of water (or more broadly, total fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate. It is recognized that certain kinds of samples cannot be filtered; to provide for this, procedures that are considered equivalent to filtering through a 0.45-micrometer membrane filter will be identified and announced at a later date.

Dissolved-solids concentration of water is determined either analytically or by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = \sum_{i=1}^{s} \frac{n_i}{n} \log 2 \frac{n_i}{n},$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the samples are the same; to some positive number, when some or all the organisms in the sample are different.

Drainage area of a stream at a specified location in that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the Earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water, together with all tributary surface streams and bodies of impounded surface water.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level. This elevation is established by a system of levels from known bench marks or by approximation from topographic maps.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap that is required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic Benchmark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_o \, e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_o}.$$

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This development process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-pupa-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (UG/G, $\mu g/g$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, $\mu g/L$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of sediment per liter of water-sediment mixture.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called Sea Level Datum of 1929 or mean sea level in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 142 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting that the data may be used for, (2) to describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) to detect changes in trends with time in the pattern occurrence of water-quality characteristics, and (4) to provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area of the habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter code is a five-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a site where limited streamflow and(or) water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024-0.004	Sedimentation
Silt.....	0.004-0.062	Sedimentation
Sand.....	0.062-2.0	Sedimentation or sieve
Gravel.....	2.0-64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition or percent of total is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periphyton is the assemblage of micro-organisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, the periphyton also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants, respectively, are the two categories reported.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{12} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton are suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton compose the plant part of the plankton. They are usually microscopic, and their movement is subject to water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials into the surrounding water, the phytoplankton have a profound effect on the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae are phytoplankton organisms having a blue pigment in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms, chiefly green plants. The rate of primary production is estimated by measuring the amount of carbon assimilated by plants (carbon method) or the amount of oxygen released (oxygen method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2/time) for periphyton and macrophytes and mg C/(m^3/time) for phytoplankton] are the units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2/time) for periphyton and macrophytes and mg O_2/(m^3/time) for phytoplankton] are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment; thus, the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sediment (fluvial) is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity and form of precipitation.

Bedload is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bedload is considered to consist of particles in transit within 0.25 ft of the streambed.

Bedload discharge (tons per day) is the quantity of sediment, as measured by dry weight, that moves past a section as bedload in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Suspended-sediment discharge (tons per day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day by multiplying discharge times milligrams per liter times 0.0027.

Suspended-sediment load (tons per day) is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge or total-sediment load (tons per day) is the sum of suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry mass, that passes a section in a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating dissolved-solids concentration in water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and the volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic-organism collection and plexiglass strips for periphyton collection.

Surface area of a lake is the area, in square miles or acres, outlined on the latest U.S. Geological Survey topographic map as the boundary of the lake and measured by a planimeter. In localities not covered by topographic maps, the areas are computed from the best maps available. Areas shown are for the lake stage at the time the map was made.

Surficial bed material is the part (upper 0.1 to 0.2 ft or 0.03 to 0.06 m) of the bed material that is sampled by using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment; thus, the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	Hexagenia
Species	Hexagenia limbata

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that records water temperature in a digital format on punched paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day (T/DAY) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total load (tons) is the total amount of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the milligrams per liter of the constituent, times the factor 0.0027, times the number of days.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment; thus, the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses, because different digestion procedures are likely to produce different analytical results.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in the dissolved and suspended phases of the sample. A knowledge of the expected form is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all the constituent in the sample.)

Turbidity of a water sample is a measurement of the reduction of transparency due to the presence of particulate matter. In this report it is expressed in Nephelometric turbidity units (NTU), obtained from the Nephelometric method for turbidity determination which measures the intensity of light scattered by suspended particles at 90° from the path of incident light source.

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1995, is called the "1995 water year."

WDR is used as an abbreviation for "Water-Data Reports" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, CO 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to U.S. Geological Survey, Department of the Interior. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. Water temperature--influential factors, field measurement, and data presentation, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W.W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. Application of surface geophysics to ground-water investigations, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-D2. Application of seismic-refraction techniques to hydrologic studies, by F.P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.

2-E1. Application of borehole geophysics to water-resources investigations, by W.S. Keys, and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

2-E2. Borehole geophysics applied to ground-water investigations, by W.S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.

2-F1. Application of drilling, coring, and sampling techniques to test holes and wells, by Eugene Shuter and W.E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.

3-A1. General field and office procedures for indirect discharge measurements, by M.A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. Measurement of peak discharge by slope-area method, by Tate Dalrymple and M.A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. Measurement of peak discharge at culverts by indirect methods, by G.L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. Measurement of peak discharge at width contractions by indirect methods, by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. General procedure for gaging streams, by R.W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. Stage measurement at gaging stations, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. Discharge measurements at gaging stations, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. Measurement of time of travel in streams by dye tracing, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.

3-A10. Discharge ratings at gaging stations, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. Measurement of discharge by moving-boat method, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. Fluorometric procedures for dye tracing, Revised by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.

3-A13. Computation of continuous records of streamflow, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. Use of flumes in measuring discharge, by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. Computation of water-surface profiles in open channels, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. Measurement of discharge using tracers, by F.A. Kilpatrick and E.D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. Acoustic velocity meter systems, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.

3-A18. Determination of stream reaeration coefficients by use of tracers, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.

3-A19. Levels at streamflow gaging stations, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.

3-A20. Simulation of soluable waste transport and buildup in surface waters using tracers, by F.A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.

3-A21. Stream-gaging cableways, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.

3-B1. Aquifer-test design, observation, and data analysis, by R.W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G.D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J.E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. Regression modeling of ground-water flow, by R.L. Cooley and R.L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.

3-B4. Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems, by R.L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.

3-B5. Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.

3-B6. The principle of superposition and its application in ground-water hydraulics, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.

3-B7. Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow, by E.J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 190 pages.

3-C1. Fluvial sediment concepts, by H.P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. Field methods for measurement of fluvial sediment, by H.P. Guy and V.W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. Some statistical tools in hydrology, by H.C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. Frequency curves, by H.C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. Low-flow investigations by H.C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. Storage analyses for water supply, by H.C. Riggs and C.H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. Regional analyses of streamflow characteristics, by H.C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. Computation of rate and volume of stream depletion by wells, by C.T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M.J. Fishman and L.C. Friedman, editors: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.

5-A2. Determination of minor elements in water by emission spectroscopy, by P.R. Barnett and E.C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. Methods for the determination of organic substances in water and fluvial sediments, by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe, editors: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.

5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, by L.J. Britton and P.E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.

5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. Quality assurance practices for the chemical and biological analyses of water and fluvial sediments, by L.C. Friedman and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

5-C1. Laboratory theory and methods for sediment analysis, by H.P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

6-A1. A modular three-dimensional finite-difference ground-water flow model, by M.G. McDonald and A.W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.

6-A2. Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model, by S.A. Leake and D.E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.

6-A3. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual, by L.J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.

6-A4. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions, by R.L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.

6-A5. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details, by L.J. Torak: USGS--TWRI Book 6, Chapter A5. 1993. 243 pages.

7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. A model for simulation of flow in singular and interconnected channels by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. Methods of measuring water levels in deep wells, by M.S. Garber and F.C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. Installation and service manual for U.S. Geological Survey manometers, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

8-B2. Calibration and maintenance of vertical-axis type current meters, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

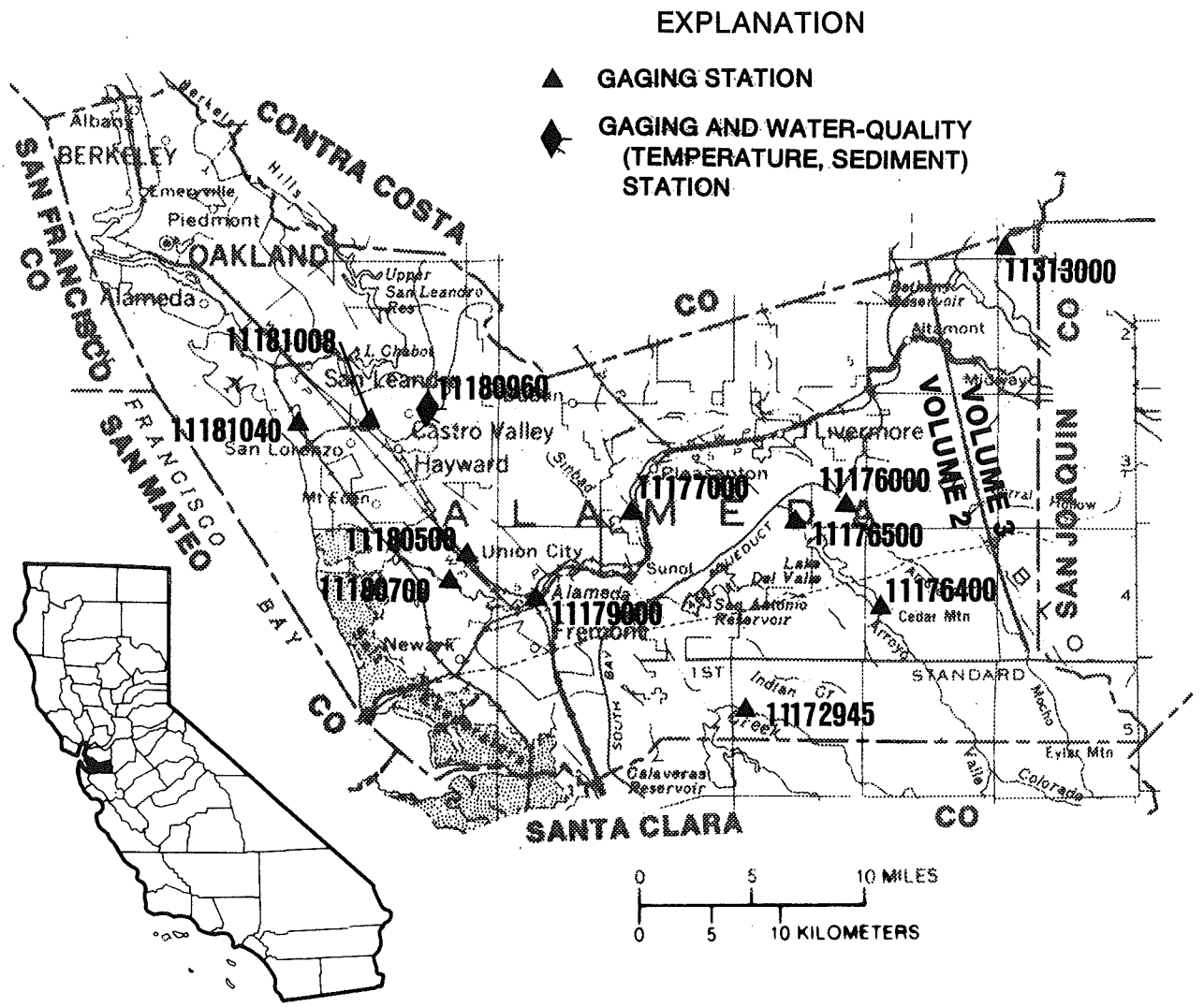


Figure 2. Location of discharge and water-quality stations in Alameda County.
(NOTE: Record for station 11313000 published in volume 3.)

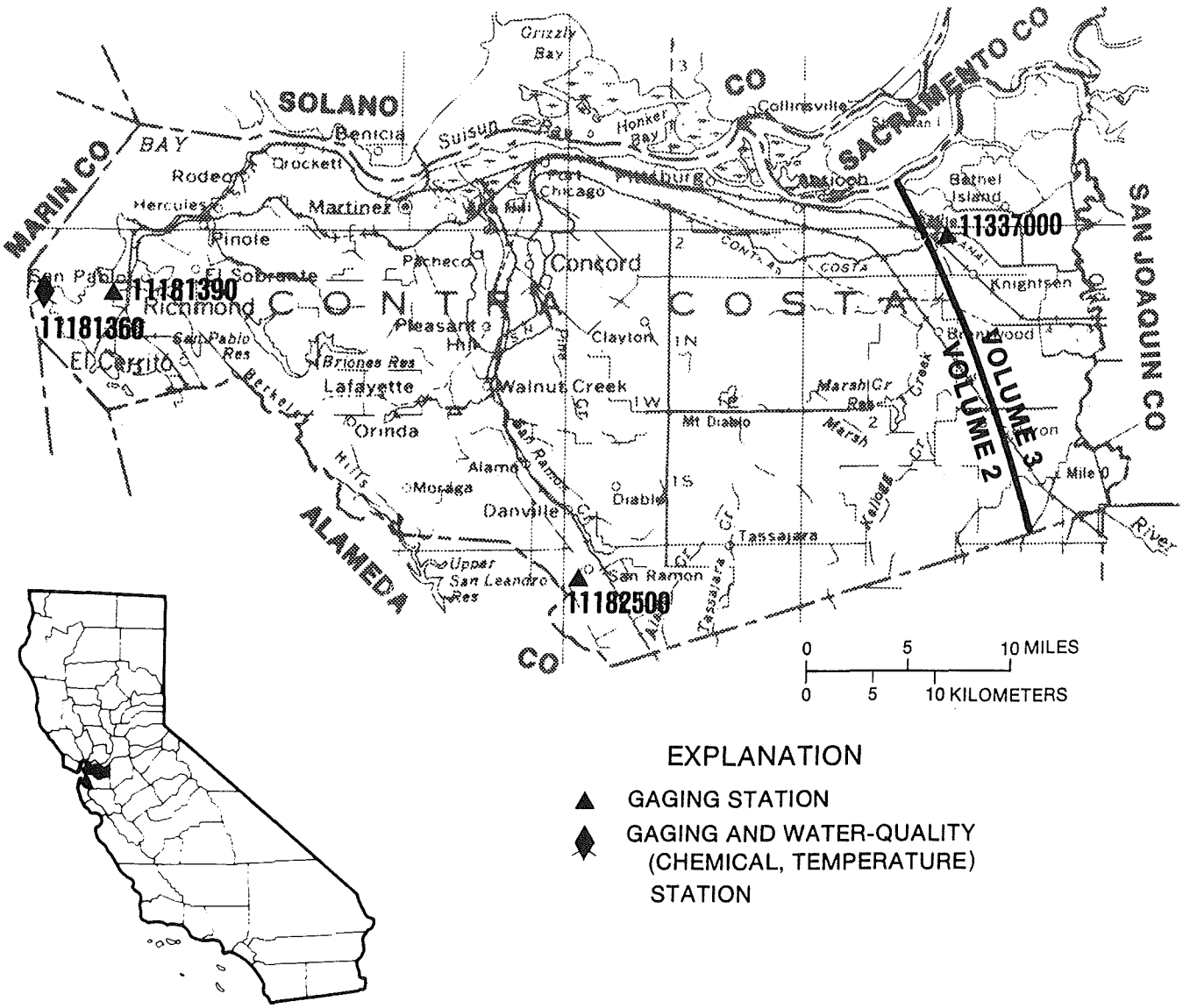


Figure 3. Location of discharge and water-quality stations in Contra Costa County. (NOTE: Record for station 11337000 published in volume 3.)

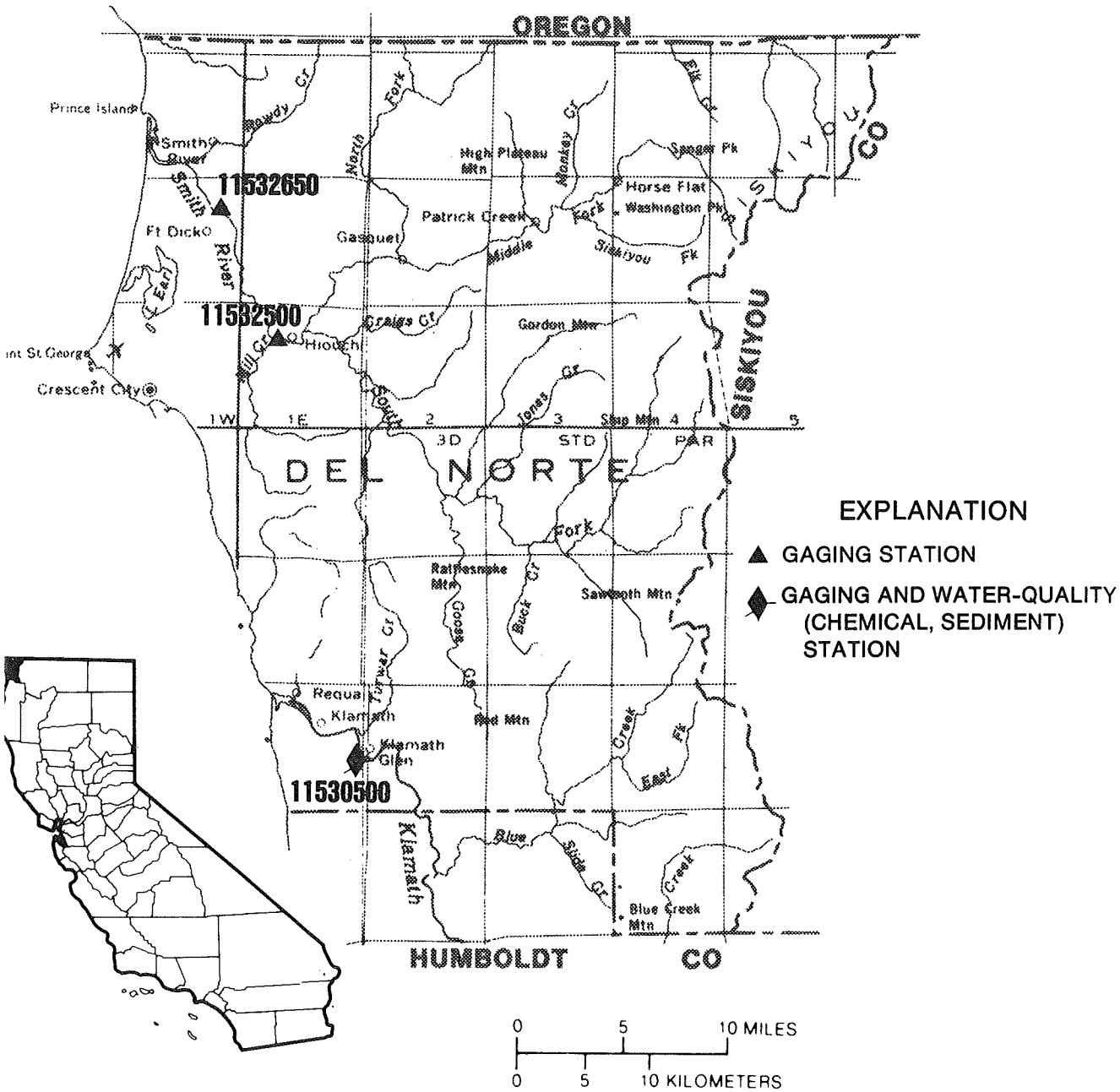


Figure 4. Location of discharge and water-quality stations in Del Norte County.

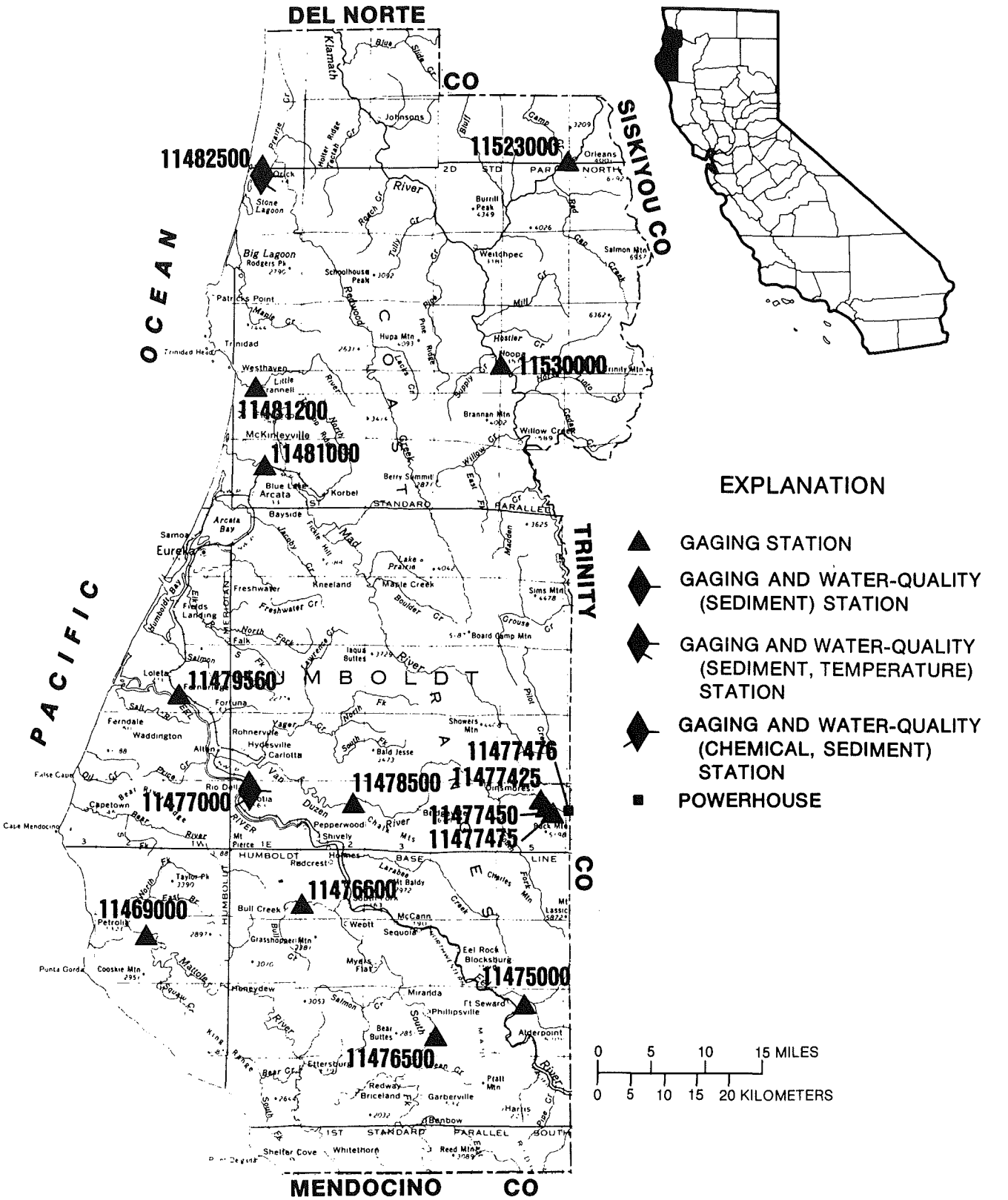


Figure 5. Location of discharge and water-quality stations in Humboldt County.

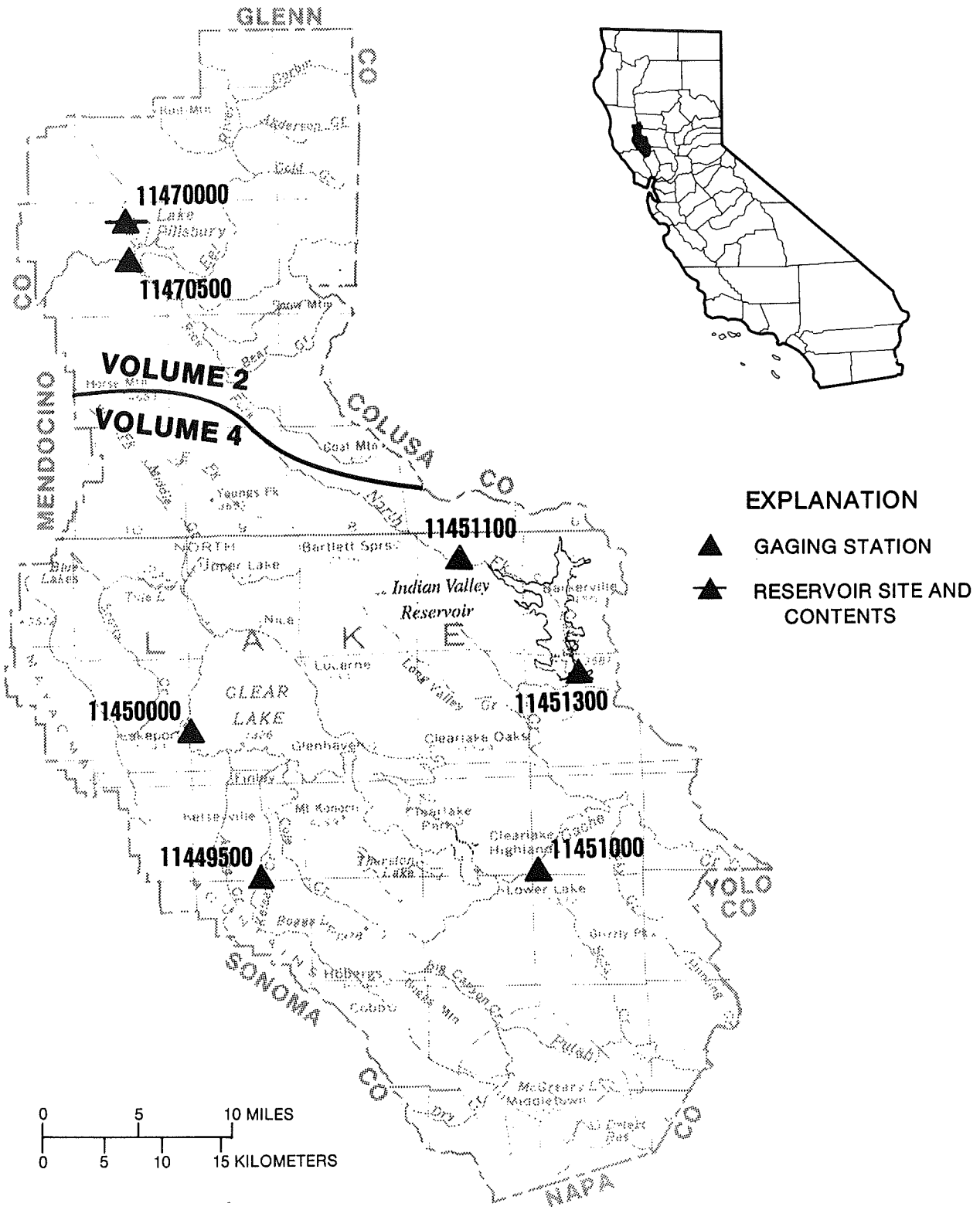


Figure 6. Location of discharge stations in Lake County. (NOTE: Records for stations 11449500 through 11451300 published in volume 4.)

Figure 7. Location of discharge stations in Marin County.

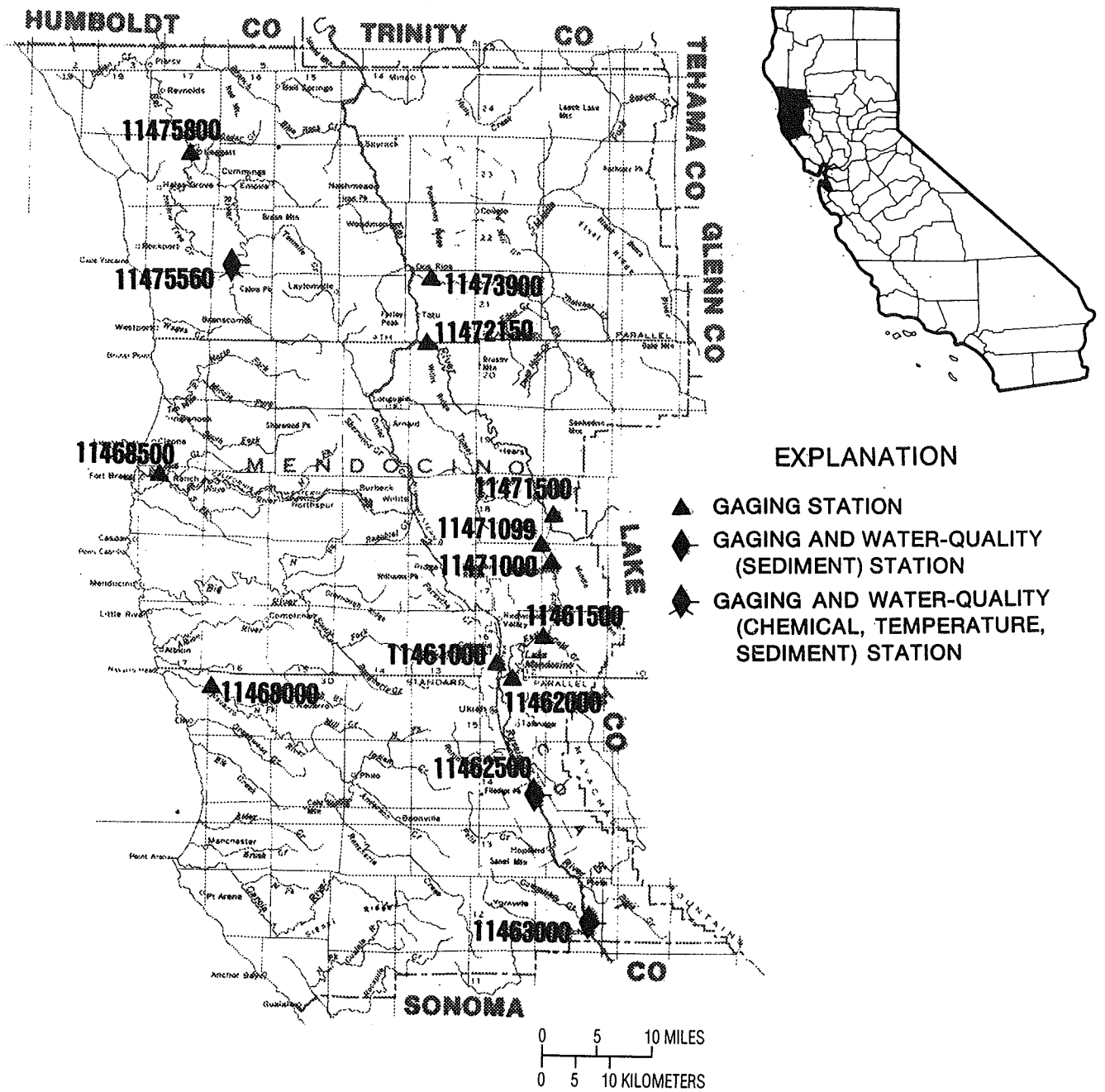


Figure 8. Location of discharge and water-quality stations in Mendocino County.

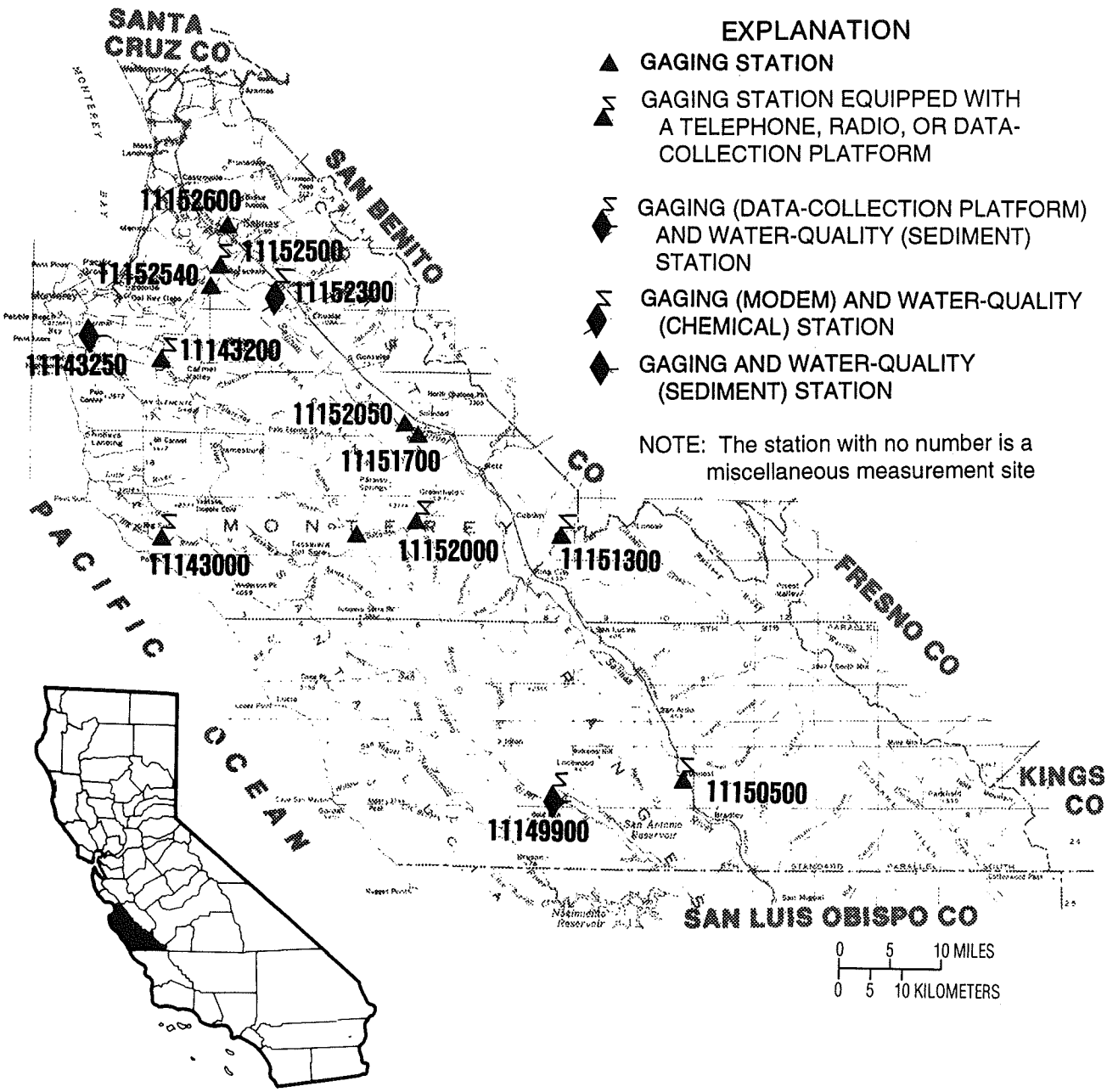


Figure 9. Location of discharge and water-quality stations in Monterey County.

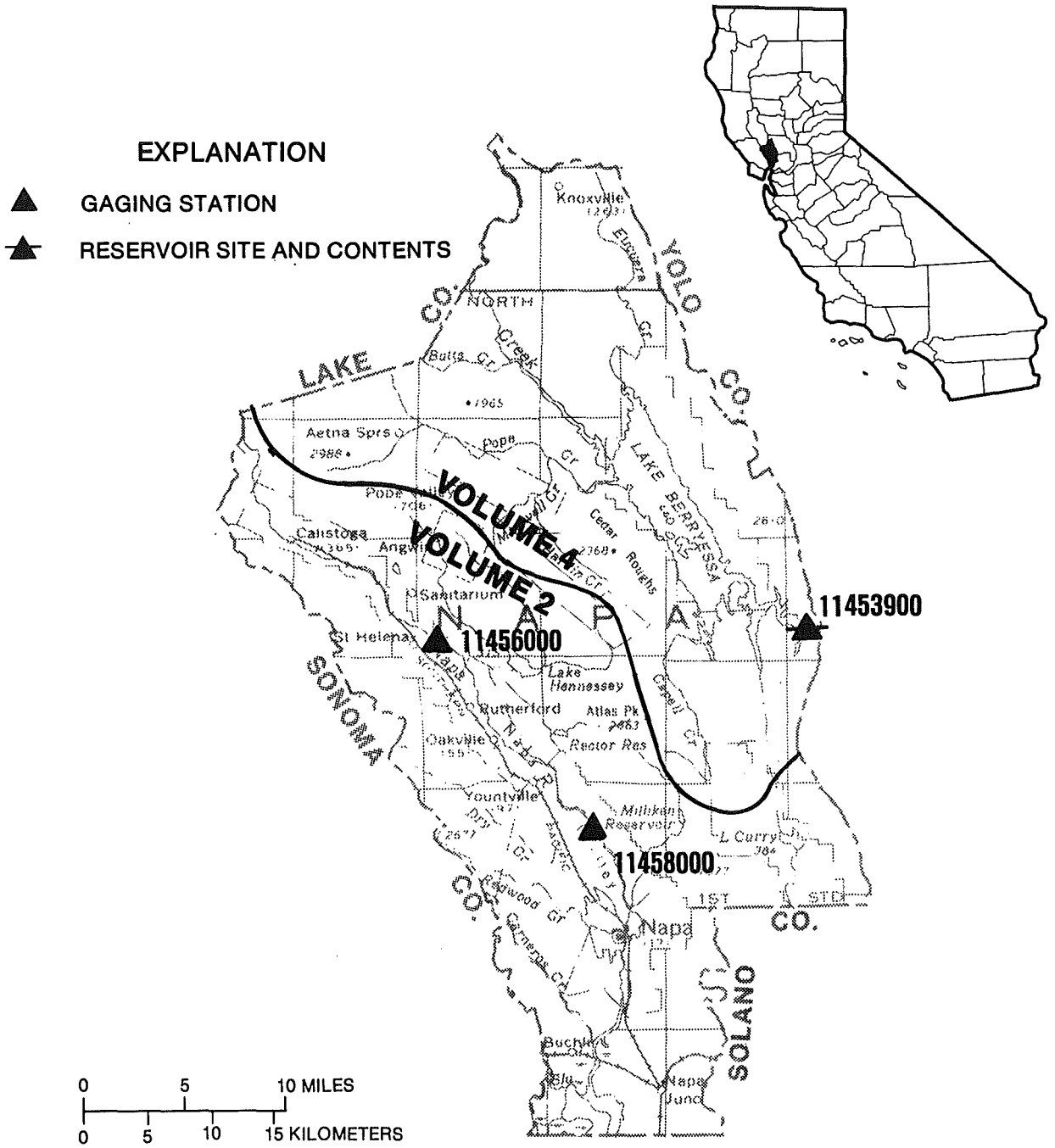


Figure 10. Location of discharge stations in Napa County.
(NOTE: Record for station 11453900 published in volume 4.)

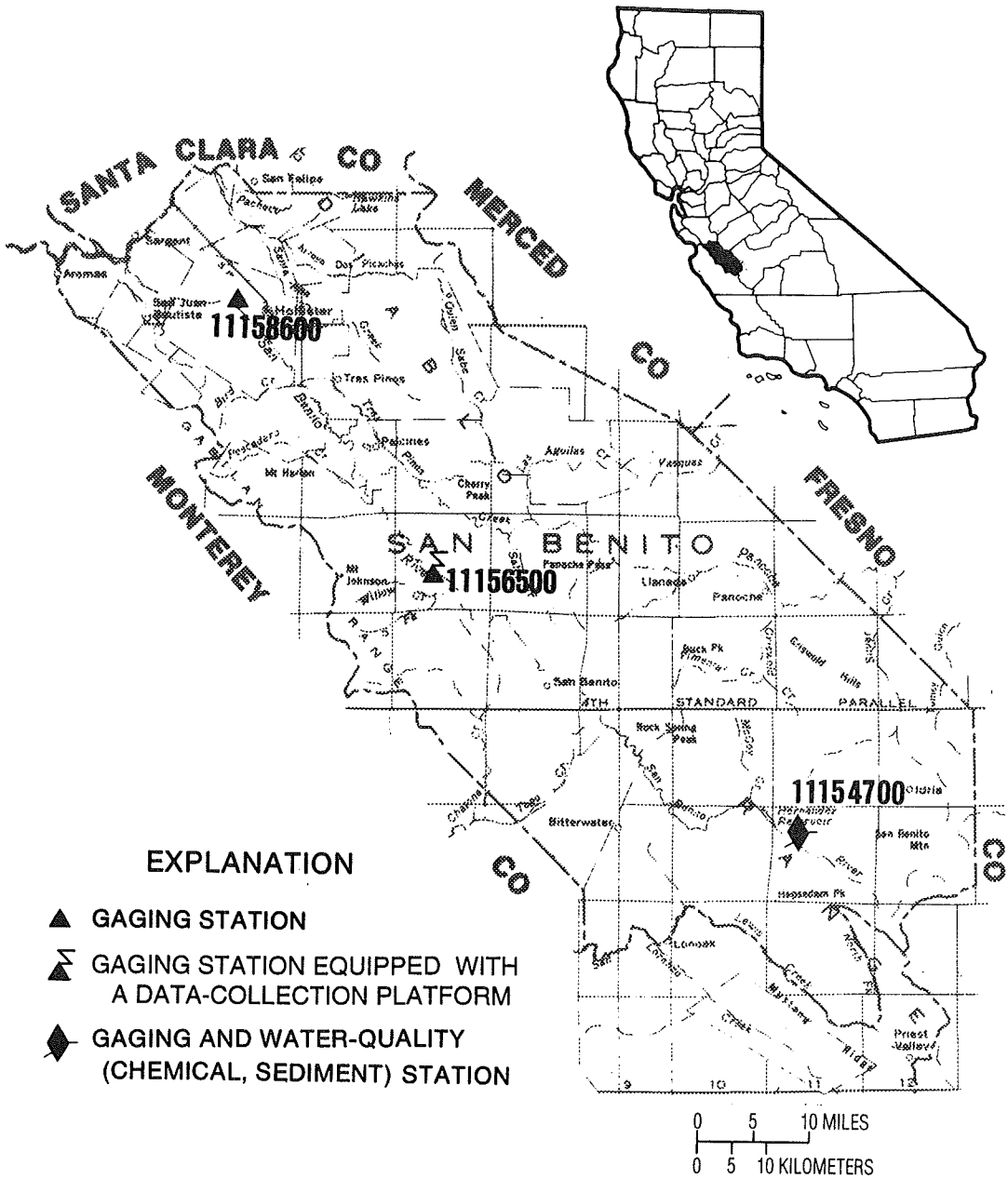


Figure 11. Location of discharge and water-quality stations in San Benito County.

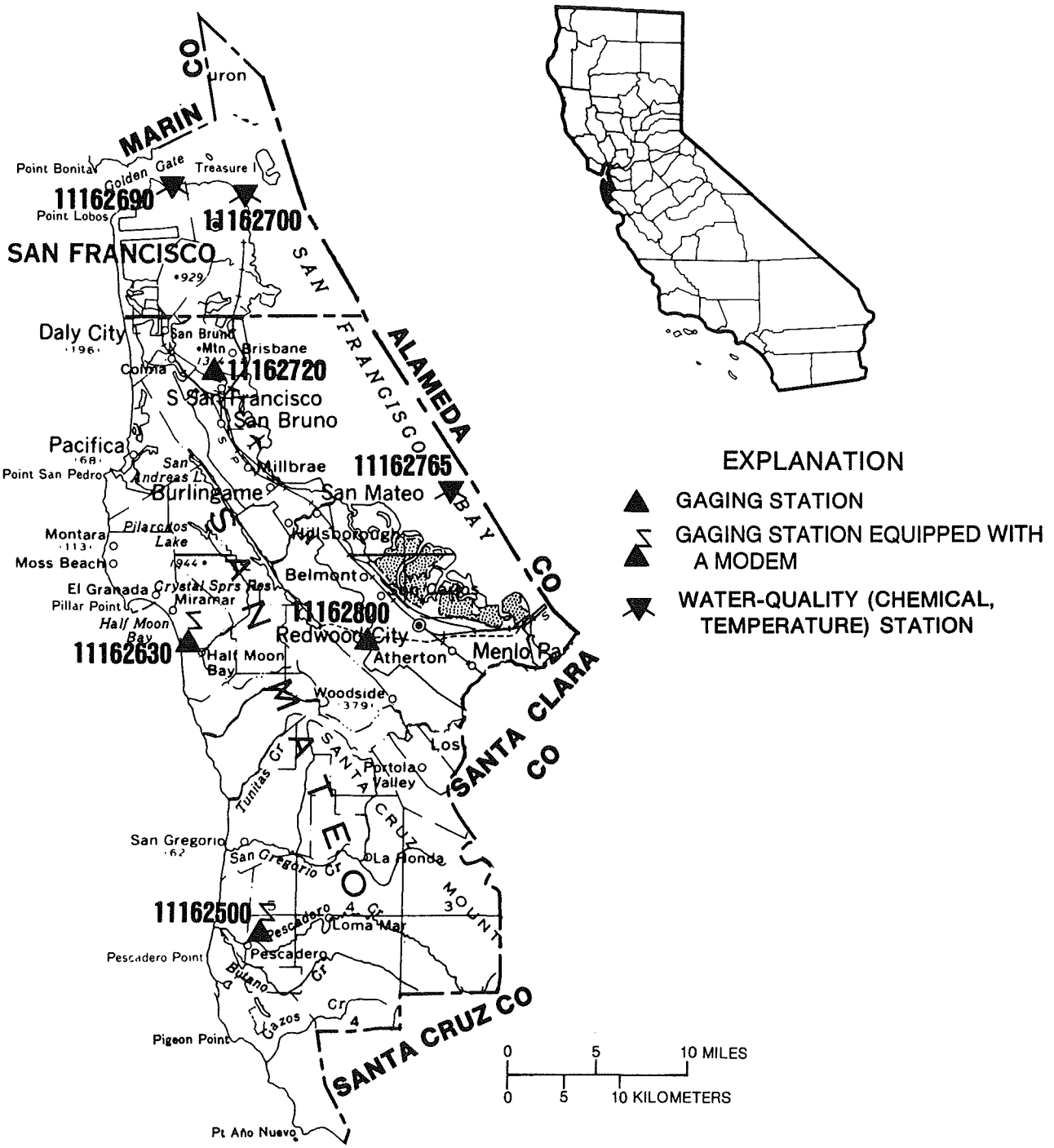
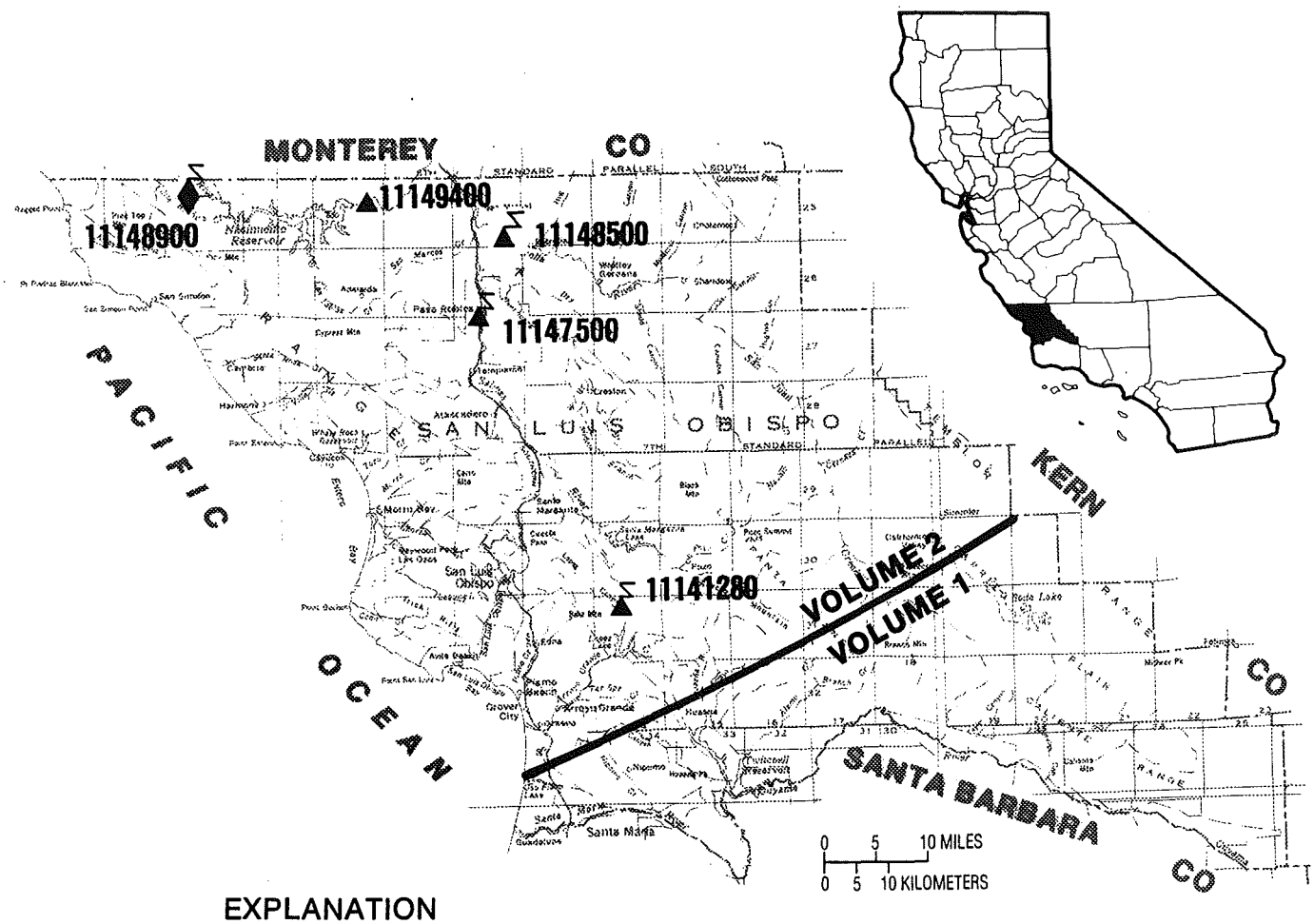


Figure 12. Location of discharge and water-quality stations in San Francisco and San Mateo Counties.



EXPLANATION

- ▲ GAGING STATION
- ▲ GAGING STATION EQUIPPED WITH A TELEPHONE, MODEM, OR DATA-COLLECTION PLATFORM
- ◆ GAGING (TELEPHONE OR RADIO) AND WATER-QUALITY (SEDIMENT) STATION

Figure 13. Location of discharge and water-quality stations in San Luis Obispo County.

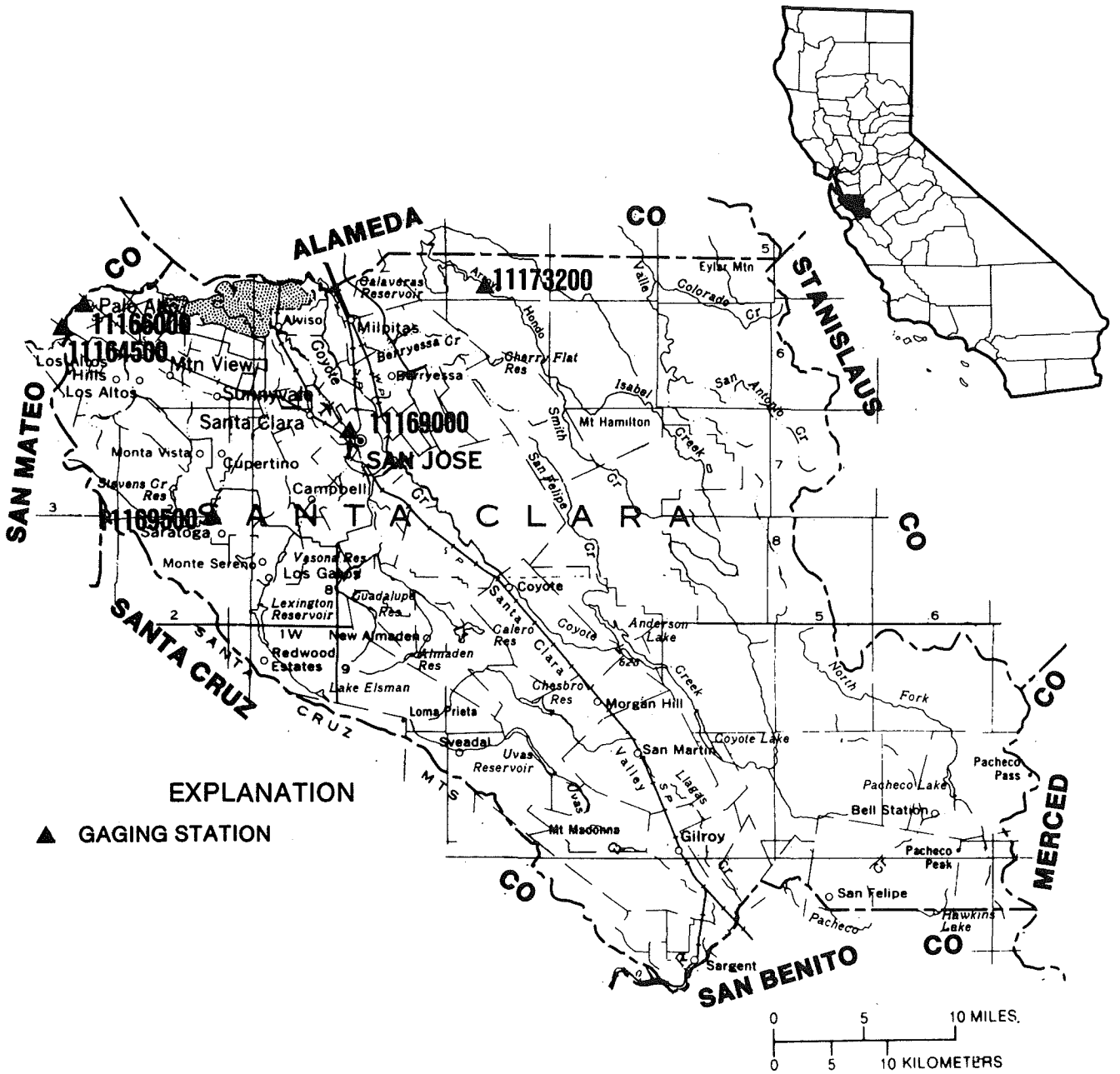


Figure 14. Location of discharge stations in Santa Clara County.

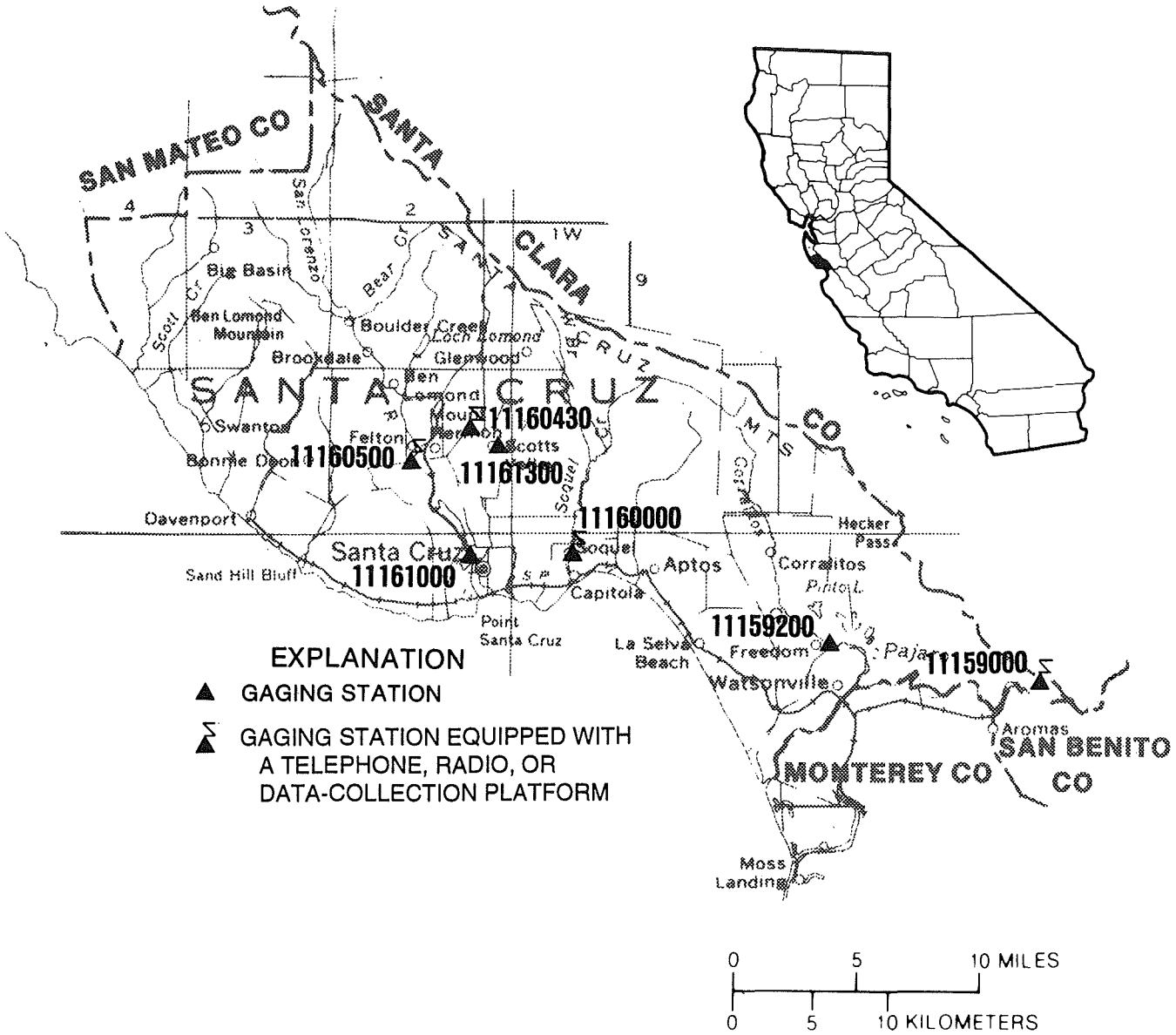


Figure 15. Location of discharge stations in Santa Cruz County.

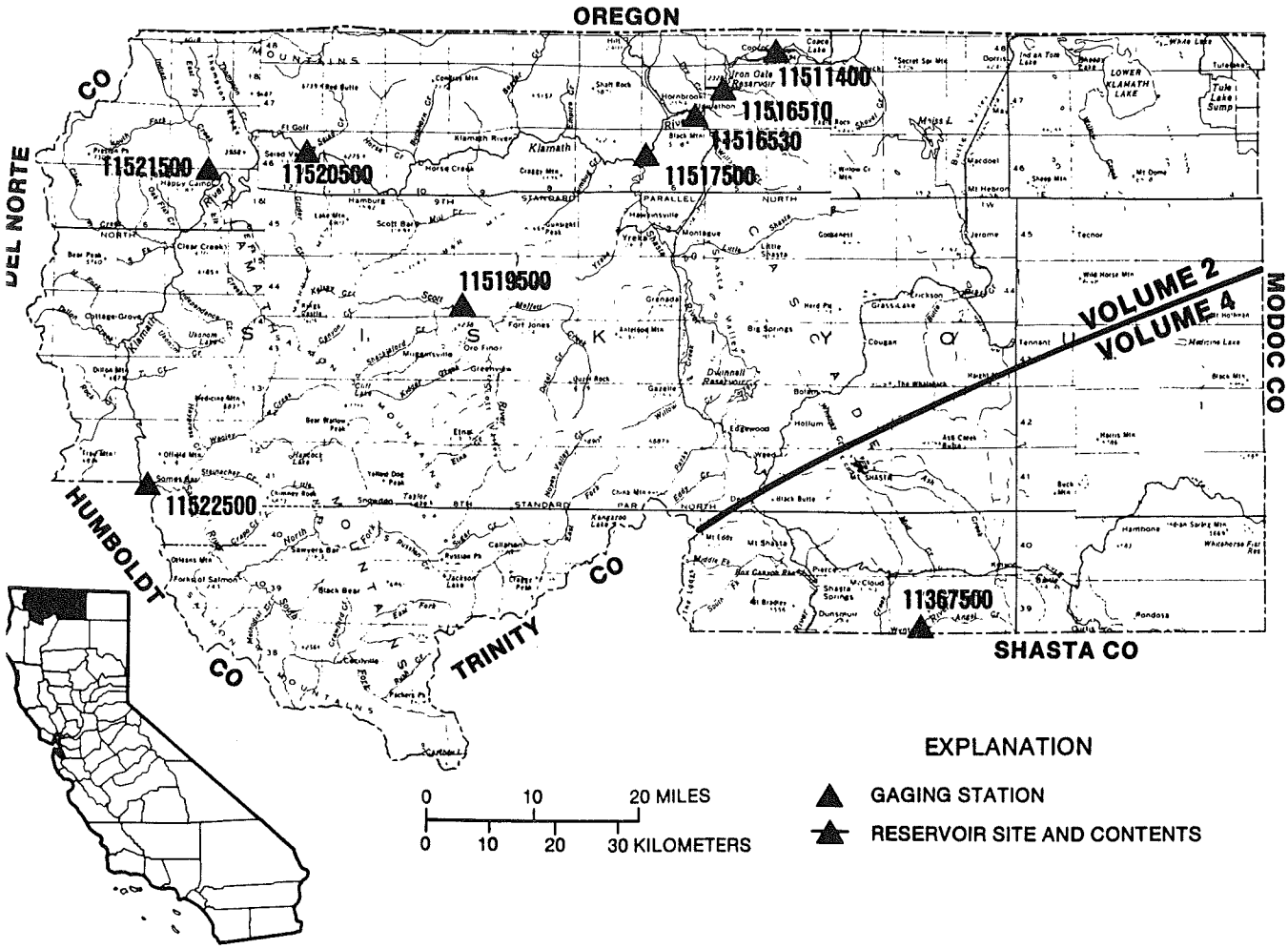


Figure 16. Location of discharge stations in Siskiyou County.
(NOTE: Records for station 11367500 published in volume 4.)

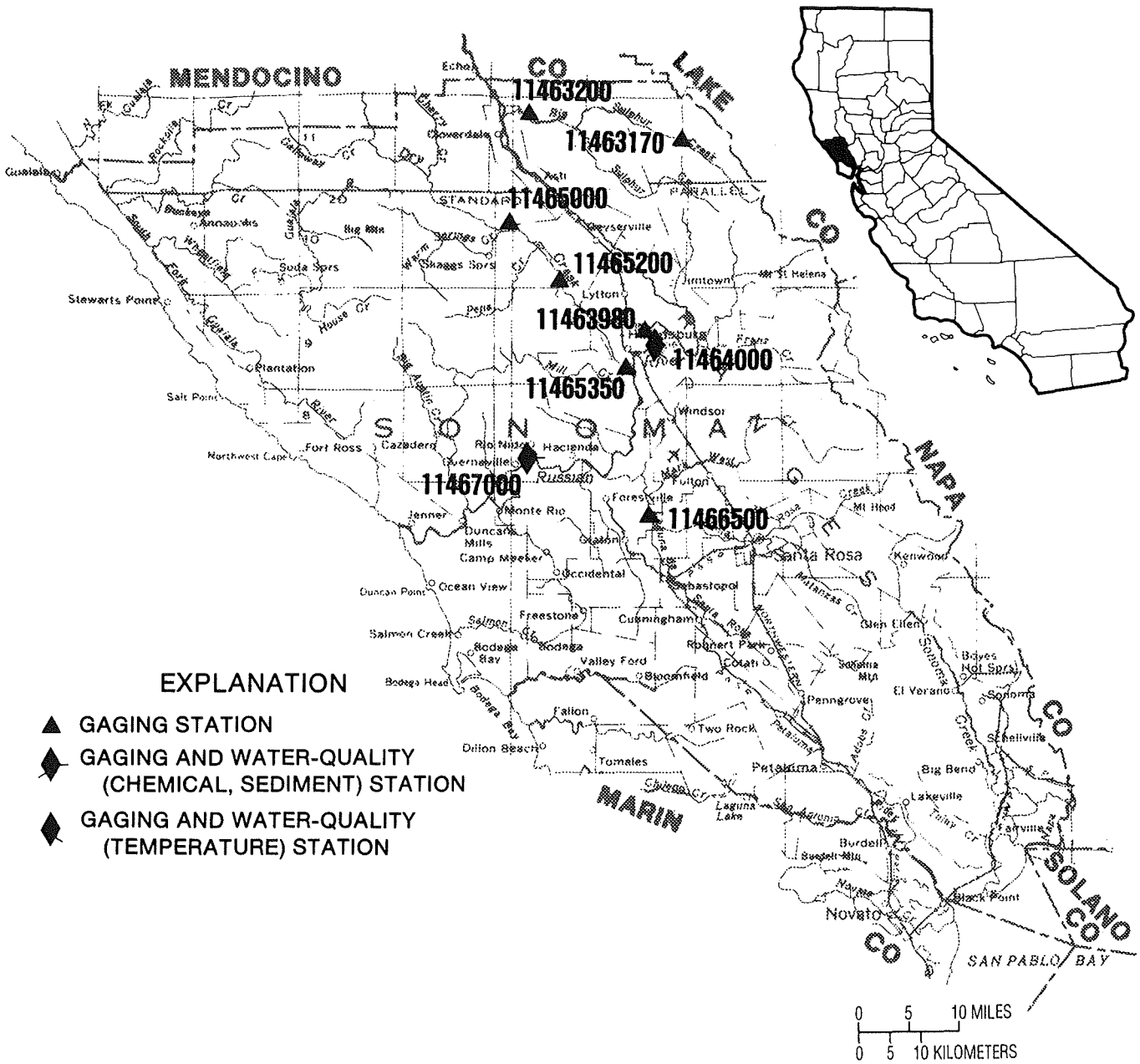


Figure 17. Location of discharge and water-quality stations in Sonoma County.

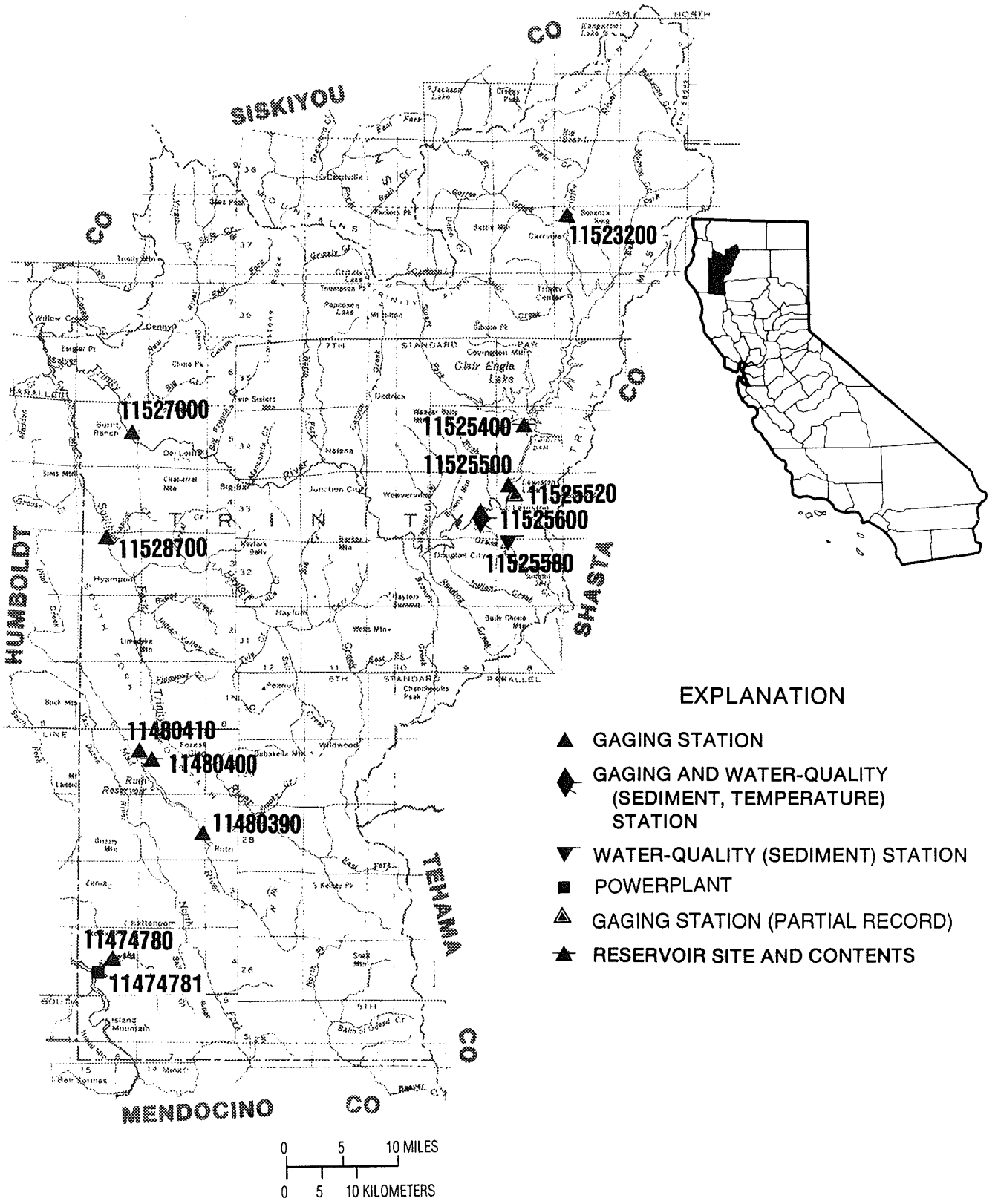


Figure 18. Location of discharge and water-quality stations in Trinity County.

GAGING STATION AND WATER-QUALITY RECORDS

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
e	Estimated value
>	Actual value is greater than value shown
<	Actual value is less than value shown
K	Results based on colony count outside the acceptable range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant
*	Instantaneous streamflow at the time of cross-sectional measurements
**	Partial sampled width
1	Laboratory value

Dissolved Trace-Element Concentrations

NOTE: Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the µg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network procedures

NOTE: Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

ARROYO GRANDE BASIN

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA

LOCATION.--Lat 35°14'08", long 120°28'17", in SE 1/4 sec.19, T.31 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060006, on right bank 3.4 mi north of Lopez Lake Spillway and 9.2 mi northeast of Arroyo Grande.

DRAINAGE AREA.--20.9 mi^2.

PERIOD OF RECORD.--July 1967 to current year.
CHEMICAL DATA: Water year 1977.
WATER TEMPERATURE: Water years 1968-72.
SEDIMENT DATA: Water years 1968-72.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 580 ft above sea level, from topographic map. Prior to Oct. 31, 1984, at site 0.4 mi downstream at different datum.

REMARKS.--Records poor. Small diversions upstream from station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft^3/s, Jan. 25, 1969, gage height, 9.26 ft in gage well, 10.8 ft from floodmarks, site and datum then in use, from rating curve extended above 300 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 9.62 ft, Mar. 1, 1983, site and datum then in use; minimum daily discharge, 0.30 ft^3/s, Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	0230	604	7.07	Mar. 5	0245	160	5.97
Jan. 25	0830	204	6.13	Mar. 10	2015	*2080	*8.75
Feb. 14	0245	280	6.37	Mar. 22	2145	504	6.88

Minimum daily, 1.7 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.9	2.4	3.2	21	14	35	e19	e12	e8.6	e6.6	5.5
2	1.8	1.9	2.3	3.2	20	16	36	e19	e11	e8.4	e6.6	5.4
3	1.8	2.0	2.3	5.1	17	61	35	e18	e11	e8.3	e6.5	5.5
4	3.3	1.9	2.2	16	17	48	39	e18	e11	e8.2	e6.5	5.4
5	5.1	1.9	2.3	19	16	123	50	e17	e11	e8.1	e6.4	5.2
6	3.0	1.9	2.3	7.2	14	86	47	e17	e11	e8.1	e6.4	5.1
7	2.6	2.3	2.3	8.4	13	61	43	e17	e11	e8.0	e6.3	5.3
8	2.4	2.5	2.2	9.1	16	50	46	e17	e11	e8.0	e6.3	5.4
9	2.1	2.4	2.2	24	15	55	39	e16	e11	e7.9	e6.2	5.6
10	2.1	3.4	2.3	e270	14	594	38	e16	e11	e7.9	e6.2	5.7
11	2.1	2.8	2.3	60	13	311	32	e16	e11	e7.8	e6.1	5.7
12	2.0	2.6	2.3	47	12	120	31	e16	e11	e7.7	e6.1	5.5
13	2.0	2.6	2.4	32	14	91	30	e15	e10	e7.6	e6.0	5.5
14	2.0	2.5	2.4	73	108	74	27	e15	e10	e7.5	e6.0	5.7
15	2.1	2.5	2.6	57	46	71	27	e15	e10	e7.5	e5.9	5.8
16	2.0	2.7	2.6	31	39	68	26	e15	e10	e7.4	e5.9	5.9
17	1.9	2.7	2.5	19	33	59	25	e15	e9.8	e7.4	e5.8	6.1
18	1.9	2.5	2.5	14	29	54	24	e14	e9.5	e7.3	5.7	5.8
19	1.9	2.5	2.5	11	28	47	24	e14	e9.5	e7.3	5.6	5.8
20	1.9	2.5	2.6	12	23	56	23	e14	e9.5	e7.3	6.2	5.8
21	1.9	2.5	2.6	11	21	80	23	e14	e9.5	e7.2	6.0	5.8
22	1.9	2.5	2.7	9.8	19	133	22	e14	e9.3	e7.2	5.6	5.8
23	1.8	2.5	2.8	33	19	191	22	e13	e9.3	e7.1	5.7	5.7
24	1.8	2.5	3.5	117	18	74	21	e13	e9.3	e7.0	5.8	5.5
25	1.9	2.6	3.6	130	17	60	21	e13	e9.0	e7.0	5.7	5.5
26	1.9	3.2	3.4	72	16	56	21	e13	e9.0	e6.9	5.7	5.2
27	1.8	2.7	3.3	51	16	42	21	e13	e9.0	e6.9	5.7	5.2
28	1.9	2.6	3.2	36	15	38	20	e12	e8.9	e6.8	5.6	5.0
29	1.8	2.5	3.2	29	---	37	20	e12	e8.8	e6.8	5.4	5.0
30	1.8	2.5	3.2	25	---	38	20	e12	e8.7	e6.7	5.4	4.8
31	1.9	---	3.2	22	---	38	---	e12	---	e6.7	5.5	---
TOTAL	66.1	74.1	82.2	1257.0	649	2846	888	464	302.1	232.6	185.4	165.2
MEAN	2.13	2.47	2.65	40.5	23.2	91.8	29.6	15.0	10.1	7.50	5.98	5.51
MAX	5.1	3.4	3.6	270	108	594	50	19	12	8.6	6.6	6.1
MIN	1.7	1.9	2.2	3.2	12	14	20	12	8.7	6.7	5.4	4.8
AC-FT	131	147	163	2490	1290	5650	1760	920	599	461	368	328

e Estimated.

ARROYO GRANDE BASIN

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.82	4.12	6.53	20.5	26.3	27.8	13.2	6.92	4.55	3.30	2.81	2.62
MAX	9.12	13.6	26.4	145	133	133	65.2	46.1	20.8	13.8	9.82	8.30
(WY)	1984	1984	1984	1969	1969	1983	1983	1983	1983	1983	1983	1983
MIN	1.03	1.23	1.58	2.00	2.00	2.46	2.08	1.75	1.38	.72	.44	.82
(WY)	1978	1978	1991	1991	1991	1977	1977	1990	1972	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1967 - 1995	
ANNUAL TOTAL	1252.4		7211.7			
ANNUAL MEAN	3.43		19.8		10.0	
HIGHEST ANNUAL MEAN					37.3	1983
LOWEST ANNUAL MEAN					1.89	1977
HIGHEST DAILY MEAN	114	Feb 20	594	Mar 10	1360	Jan 25 1969
LOWEST DAILY MEAN	1.2	Aug 30	1.7	Oct 1	.30	Aug 1 1977
ANNUAL SEVEN-DAY MINIMUM	1.2	Sep 2	1.8	Oct 23	.34	Jul 28 1977
INSTANTANEOUS PEAK FLOW			2080	Mar 10	2830	Jan 25 1969
INSTANTANEOUS PEAK STAGE			8.75	Mar 10	9.62	Mar 1 1983
ANNUAL RUNOFF (AC-FT)	2480		14300		7270	
10 PERCENT EXCEEDS	5.1		46		16	
50 PERCENT EXCEEDS	2.5		8.1		3.6	
90 PERCENT EXCEEDS	1.4		2.3		1.5	

11143000 BIG SUR RIVER NEAR BIG SUR, CA

LOCATION.--Lat 36°14'45", long 121°46'20", in SW 1/4 SW 1/4 sec.29, T.19 S., R.2 E., Monterey County, Hydrologic Unit 18060006, on right bank at downstream side of bridge, 0.4 mi upstream from Post Creek, and 2.6 mi southeast of town of Big Sur.

DRAINAGE AREA.--46.5 mi^2.

PERIOD OF RECORD.--March 1950 to current year. Prior to October 1959, published as Sur River at Big Sur.
CHEMICAL DATA: Water year 1977.
WATER TEMPERATURE: Water years 1966-79.

REVISED RECORDS.--WSP 1445: 1952(P), 1953(M). WSP 1715: 1951, drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 240 ft above sea level, from topographic map. Prior to Oct. 1, 1951, nonrecording gage at site 0.9 mi downstream at different datum.

REMARKS.--Records fair. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft^3/s, Jan. 5, 1978, gage height, 14.30 ft, from rating curve extended above 6,800 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 2.6 ft^3/s, Aug. 23, 1977, Sept. 9, Oct. 29, Nov. 5, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 4	1715	1,690	7.55	Jan. 24	0845	1,580	7.41
Jan. 10	0215	5,970	11.22	Mar. 10	1200	*6,690	*11.71

Minimum daily, 5.5 ft^3/s, Oct. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.5	7.0	15	17	439	114	340	257	86	57	38	26
2	e5.5	7.1	14	17	384	147	319	226	86	55	37	27
3	e5.7	7.2	14	124	338	246	298	202	84	54	36	27
4	11	7.4	30	563	300	198	281	186	82	53	36	24
5	25	9.0	36	478	272	287	265	176	80	52	37	24
6	11	15	25	190	248	242	253	168	79	51	36	25
7	9.3	11	21	278	233	213	245	158	78	50	e36	26
8	9.2	9.7	18	206	223	218	230	151	77	50	e35	27
9	9.3	20	17	1020	203	889	217	145	75	49	e35	27
10	9.3	30	17	2760	188	4150	206	139	74	48	34	28
11	9.3	14	20	1090	178	2540	198	132	71	48	34	27
12	9.1	11	28	824	169	1460	189	129	70	48	e34	25
13	9.2	10	49	636	201	1060	191	150	68	48	34	24
14	9.2	9.7	52	1150	258	839	178	139	68	48	34	23
15	8.6	10	73	1030	197	694	175	134	73	46	33	23
16	7.7	12	40	812	179	594	172	130	87	46	33	22
17	7.7	12	30	612	169	519	163	124	72	46	33	22
18	7.7	12	25	480	163	461	160	119	69	46	33	21
19	7.6	11	22	392	156	415	152	115	66	45	33	e21
20	7.6	10	20	397	149	445	151	113	64	45	32	e21
21	7.7	10	19	442	144	447	143	110	63	44	31	e21
22	7.7	10	18	488	139	806	137	108	62	43	30	e21
23	7.7	9.8	17	693	134	1100	131	106	61	42	29	e21
24	7.7	10	24	1290	130	814	126	104	61	41	29	e20
25	7.7	25	22	1110	126	670	122	102	60	40	28	e20
26	7.8	42	19	863	123	580	118	98	60	40	28	e20
27	7.5	25	17	912	120	518	143	95	59	39	28	e20
28	7.1	21	17	904	116	469	153	93	58	38	28	e20
29	7.1	17	16	737	---	428	273	91	58	37	27	e20
30	7.0	15	15	604	---	394	337	88	57	37	27	e20
31	6.9	---	15	510	---	364	---	87	---	37	27	---
TOTAL	266.4	419.9	765	21629	5679	22321	6066	4175	2108	1423	1005	693
MEAN	8.59	14.0	24.7	698	203	720	202	135	70.3	45.9	32.4	23.1
MAX	25	42	73	2760	439	4150	340	257	87	57	38	28
MIN	5.5	7.0	14	17	116	114	118	87	57	37	27	20
AC-FT	528	833	1520	42900	11260	44270	12030	8280	4180	2820	1990	1370

e Estimated.

11143000 BIG SUR RIVER NEAR BIG SUR, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	17.4	45.7	99.8	231	255	225	145	65.8	35.6	22.8	16.8	14.9
MAX	86.8	302	449	986	940	964	843	333	90.8	53.5	40.4	39.4
(WY)	1963	1951	1956	1952	1983	1983	1958	1983	1983	1983	1983	1983
MIN	5.08	4.97	7.52	8.27	11.3	16.8	9.15	8.70	6.17	4.94	3.80	4.52
(WY)	1991	1991	1991	1991	1977	1977	1977	1977	1977	1977	1977	1961

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1950 - 1995	
ANNUAL TOTAL	9253.7		66550.3			
ANNUAL MEAN	25.4		182		97.4	
HIGHEST ANNUAL MEAN					319	1983
LOWEST ANNUAL MEAN					10.0	1977
HIGHEST DAILY MEAN	556	Feb 20	4150	Mar 10	4150	Mar 10 1995
LOWEST DAILY MEAN	5.5	Sep 27	5.5	Oct 1	2.6	Aug 23 1977
ANNUAL SEVEN-DAY MINIMUM	5.5	Sep 26	7.1	Oct 28	2.9	Nov 4 1990
INSTANTANEOUS PEAK FLOW			6690	Mar 10	10700	Jan 5 1978
INSTANTANEOUS PEAK STAGE			11.71	Mar 10	14.30	Jan 5 1978
INSTANTANEOUS LOW FLOW			5.5	Oct 1	2.6	Aug 23 1977
ANNUAL RUNOFF (AC-FT)	18350		132000		70540	
10 PERCENT EXCEEDS	47		479		216	
50 PERCENT EXCEEDS	15		54		28	
90 PERCENT EXCEEDS	6.8		9.9		9.2	

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA

LOCATION.--Lat 36°28'28", long 121°43'40", in Los Laureles Grant, Monterey County, Hydrologic Unit 18060012, on left bank in Cal American Water Company pumphouse, at Robles del Rio, 0.2 mi downstream from Hitchcock Canyon, and 11 mi southeast of town of Carmel.

DRAINAGE AREA.--193 mi^2.

PERIOD OF RECORD.--August 1957 to current year.

REVISED RECORDS.--WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 268.57 ft above sea level (based on Monterey County benchmark). Prior to June 1981, at site 150 ft upstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Low flow regulated by Los Padres Reservoir 11 mi upstream, usable capacity, 2,180 acre-ft, and San Clemente Reservoir 4 mi upstream, usable capacity, 796 acre-ft. Diversion from San Clemente Reservoir for municipal supply amounted to 4,350 acre-ft for the current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft^3/s, Mar. 10, 1995. gage height, 12.90 ft; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 11.7 ft from floodmarks, discharge, 6,930 ft^3/s, from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	0415	e10,400	12.61	Mar. 10	1330	*16,000	*12.90
Jan. 24	1100	2,480	8.26	Mar. 22	2400	3,450	7.42

Minimum daily, 2.5 ft^3/s, Oct. 31, Nov. 1, 3-6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.5	3.3	4.3	374	100	398	194	89	53	e10	8.7
2	2.9	2.6	3.3	4.2	327	102	362	189	89	53	e10	8.8
3	2.9	2.5	3.3	5.8	292	135	338	176	90	53	e9.5	8.8
4	3.1	2.5	3.5	43	266	137	315	167	86	51	e9.0	8.9
5	3.5	2.5	3.6	134	244	159	293	162	83	49	e9.0	8.8
6	3.0	2.5	3.6	237	226	156	277	164	81	46	e9.0	8.8
7	3.0	2.6	3.6	381	211	141	260	156	81	e40	e9.0	8.7
8	2.9	2.6	3.7	361	205	134	259	148	79	e38	e9.0	8.8
9	2.8	2.8	3.7	1330	195	1020	240	142	76	e36	e8.5	8.8
10	3.0	3.1	3.8	e5720	179	e6500	229	140	76	e34	e8.5	8.8
11	2.9	2.9	4.1	e2060	170	e4800	218	135	76	e34	e8.0	9.0
12	2.9	2.8	4.8	e945	162	e2100	214	130	74	e33	e8.0	8.8
13	2.9	2.8	4.4	e637	159	e1500	e220	157	73	e30	e8.0	8.9
14	3.0	2.8	4.2	841	190	1200	e200	160	71	e28	e8.0	9.9
15	3.0	3.0	4.0	e1250	149	904	e195	166	75	e26	e8.0	9.8
16	2.9	3.1	4.0	1010	139	716	e190	159	102	e24	8.0	9.7
17	2.8	3.2	4.0	712	132	585	e180	147	86	e22	8.8	9.9
18	2.8	3.4	4.0	525	127	496	e170	140	78	e20	9.1	10
19	2.8	3.4	4.0	e421	123	434	e155	133	74	e18	9.1	9.7
20	2.8	3.0	4.0	e448	120	468	e140	126	71	e18	9.6	10
21	2.8	3.1	4.0	e557	117	525	e125	124	68	e18	9.4	11
22	2.8	3.1	4.0	587	114	1350	115	122	67	17	9.0	10
23	2.8	3.1	3.9	1040	111	2310	114	121	67	e16	9.7	9.9
24	2.6	3.3	4.6	1860	107	1380	109	115	64	e16	10	10
25	2.6	4.0	4.3	1540	107	996	105	114	62	e15	8.9	11
26	2.6	4.0	4.2	1040	106	829	99	109	60	e15	8.3	11
27	2.6	3.8	4.2	847	103	713	105	106	56	e14	9.7	10
28	2.6	3.4	4.4	787	101	639	117	102	57	e13	9.1	10
29	2.6	3.3	4.2	627	---	561	134	100	60	e12	8.6	10
30	2.6	3.3	4.2	515	---	497	224	92	54	e11	8.4	9.8
31	2.5	---	4.1	433	---	443	---	89	---	e11	8.6	---
TOTAL	87.8	91.0	123.0	26902.3	4856	32030	6100	4285	2225	864	275.8	286.3
MEAN	2.83	3.03	3.97	868	173	1033	203	138	74.2	27.9	8.90	9.54
MAX	3.5	4.0	4.8	5720	374	6500	398	194	102	53	10	11
MIN	2.5	2.5	3.3	4.2	101	100	99	89	54	11	8.0	8.7
AC-FT	174	180	244	53360	9630	63530	12100	8500	4410	1710	547	568

e Estimated.

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.07	13.8	54.5	191	285	277	165	54.5	17.8	5.54	1.69	1.58
MAX	23.3	135	480	868	1206	1855	1071	410	129	50.9	13.4	10.6
(WY)	1984	1984	1984	1995	1969	1983	1958	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.26	.000	.011	.000	.000	.000	.000	.000	.000
(WY)	1960	1960	1960	1991	1977	1977	1977	1977	1961	1959	1957	1957

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1957 - 1995	
ANNUAL TOTAL	5748.1		78126.2			
ANNUAL MEAN	15.7		214		88.1	
HIGHEST ANNUAL MEAN					442	1983
LOWEST ANNUAL MEAN					.050	1977
HIGHEST DAILY MEAN	415	Feb 20	6500	Mar 10	6500	Mar 10 1995
LOWEST DAILY MEAN	1.5	Aug 15	2.5	Oct 31	.00	Aug 1 1957
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 14	2.5	Oct 31	.00	Aug 1 1957
INSTANTANEOUS PEAK FLOW			16000	Mar 10	16000	Mar 10 1995
INSTANTANEOUS PEAK STAGE			12.90	Mar 10	12.90	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	11400		155000		63800	
10 PERCENT EXCEEDS	34		525		205	
50 PERCENT EXCEEDS	4.0		46		4.6	
90 PERCENT EXCEEDS	2.1		2.9		.00	

11143250 CARMEL RIVER NEAR CARMEL, CA

LOCATION.--Lat 36°32'20", long 121°52'25", in Canada de la Segunda Grant, Monterey County, Hydrologic Unit 18060012, on right bank 0.3 mi downstream from Potrero Canyon and 3 mi east of Carmel.

DRAINAGE AREA.--246 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 45 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those for Mar. 12-24, which are poor. Low flow regulated by Los Padres Reservoir, usable capacity, 2,180 acre-ft, and San Clemente Reservoir, usable capacity, 796 acre-ft. Diversion from San Clemente Reservoir for municipal supply amounted to 4,350 acre-ft for the current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft^3/s, Mar. 10, 1995, gage height, 20.85 ft; no flow for many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	0715	9,870	17.81	Mar. 10	1815	*16,000	*20.85
Jan. 24	1315	2,200	8.62	Mar. 23	0400	3,850	10.53

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	486	95	576	315	113	57	10	6.2
2	.00	.00	.00	.00	428	96	533	282	109	53	8.8	5.1
3	.00	.00	.00	.00	380	129	505	257	124	53	8.9	4.6
4	.00	.00	.00	.00	344	155	471	235	130	54	8.5	4.0
5	.00	.00	.00	.00	307	180	445	231	122	54	7.6	3.9
6	.00	.00	.00	.00	287	183	416	236	118	52	7.1	3.0
7	.00	.00	.00	58	271	166	399	222	99	45	6.1	2.8
8	.00	.00	.00	128	268	154	385	206	96	44	4.5	2.6
9	.00	.00	.00	445	255	661	361	199	88	39	3.7	1.8
10	.00	.00	.00	6070	223	7960	344	207	83	38	2.9	1.9
11	.00	.00	.00	1850	202	5280	325	194	82	39	2.1	2.3
12	.00	.00	.00	746	188	2440	314	185	77	37	1.9	2.3
13	.00	.00	.00	571	181	1760	318	223	79	35	1.7	3.3
14	.00	.00	.00	644	231	1470	300	232	82	32	1.4	3.9
15	.00	.00	.00	967	195	1310	283	236	86	28	.91	5.0
16	.00	.00	.00	903	174	1160	294	227	134	26	.66	3.7
17	.00	.00	.00	726	162	1060	266	208	124	27	.74	3.9
18	.00	.00	.00	607	152	981	267	189	94	28	1.3	5.0
19	.00	.00	.00	520	146	919	260	177	89	28	1.6	5.4
20	.00	.00	.00	516	137	936	251	170	85	27	1.2	3.0
21	.00	.00	.00	654	130	1100	221	167	76	25	1.6	3.7
22	.00	.00	.00	605	124	1610	225	163	68	23	1.8	4.6
23	.00	.00	.00	917	119	2630	213	157	68	23	2.6	5.1
24	.00	.00	.00	1620	113	1370	208	154	68	21	2.7	5.8
25	.00	.00	.00	1370	109	1080	204	152	64	20	2.4	5.1
26	.00	.00	.00	984	103	975	195	143	59	19	2.1	4.3
27	.00	.00	.00	852	99	885	194	136	54	17	2.0	3.6
28	.00	.00	.00	839	98	828	218	130	54	16	2.3	2.7
29	.00	.00	.00	722	---	748	223	123	55	15	1.8	2.7
30	.00	.00	.00	626	---	672	371	118	61	13	2.7	2.3
31	.00	---	.00	547	---	611	---	115	---	11	4.3	---
TOTAL	0.00	0.00	0.00	24487.00	5912	39604	9585	5989	2641	999	107.91	113.6
MEAN	.000	.000	.000	790	211	1278	319	193	88.0	32.2	3.48	3.79
MAX	.00	.00	.00	6070	486	7960	576	315	134	57	10	6.2
MIN	.00	.00	.00	.00	98	95	194	115	54	11	.66	1.8
AC-FT	.00	.00	.00	48570	11730	78550	19010	11880	5240	1980	214	225

11143250 CARMEL RIVER NEAR CARMEL, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.84	9.73	58.7	235	337	337	180	68.6	19.6	4.45	.75	.35
MAX	22.3	110	479	1034	1754	2196	1006	533	130	51.4	13.1	3.80
(WY)	1984	1984	1983	1969	1969	1983	1982	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1965	1965	1969	1977	1977	1977	1977	1977	1968	1966	1964	1964

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	4133.59		89438.51			
ANNUAL MEAN	11.3		245		103	
HIGHEST ANNUAL MEAN					508	1983
LOWEST ANNUAL MEAN					.000	1977
HIGHEST DAILY MEAN	521	Feb 20	7960	Mar 10	8000	Mar 1 1983
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 6 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Jul 9 1964
INSTANTANEOUS PEAK FLOW			16000	Mar 10	16000	Mar 10 1995
INSTANTANEOUS PEAK STAGE			20.85	Mar 10	20.85	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	8200		177400		74670	
10 PERCENT EXCEEDS	24		648		258	
50 PERCENT EXCEEDS	.00		44		.54	
90 PERCENT EXCEEDS	.00		.00		.00	

11143250 CARMEL RIVER NEAR CARMEL, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-66, 1990, December 1991 to current year.
CHEMICAL DATA: Water years 1954-66.
SEDIMENT DATA: Water years 1990, December 1991 to current year.
REMARKS.--No Zero bedload discharge observations during current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
JAN									
10...	1600	4080	--	1430	15800	11	12	16	21
20...	1330	472	9.5	137	175	--	--	--	--
FEB									
10...	1250	223	11.5	14	8.4	--	--	--	--
MAR									
08...	1250	153	12.5	6	2.5	--	--	--	--
10...	1530	14400	--	3220	125000	--	--	--	--
13...	1605	1660	12.5	880	3940	--	--	--	--
APR									
12...	0945	322	13.0	42	37	--	--	--	--
MAY									
18...	1455	190	17.5	12	6.2	--	--	--	--
JUN									
19...	1230	94	19.0	5	1.3	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 4.00 MM
JAN								
10...	27	37	44	62	80	93	99	100
20...	--	25	--	--	--	--	--	--
FEB								
10...	--	30	--	--	--	--	--	--
MAR								
08...	--	--	--	--	--	--	--	--
10...	--	98	--	--	--	--	--	--
13...	--	24	--	--	--	--	--	--
APR								
12...	--	26	--	--	--	--	--	--
MAY								
18...	--	36	--	--	--	--	--	--
JUN								
19...	--	28	--	--	--	--	--	--

11143250 CARMEL RIVER NEAR CARMEL, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	NUMBER OF SAMPLING POINTS (COUNT)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
FEB								
10...	1349	1	221	11.5	--	--	--	4
10...	1350	1	221	11.5	--	--	--	2
10...	1352	1	221	11.5	--	--	--	2
10...	1353	1	221	11.5	--	--	2	4
10...	1354	1	221	11.5	4	30	78	97

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
FEB							
10...	76	100	--	--	--	--	--
10...	24	67	92	98	100	--	--
10...	27	58	83	96	99	100	--
10...	10	19	26	33	47	73	100
10...	100	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

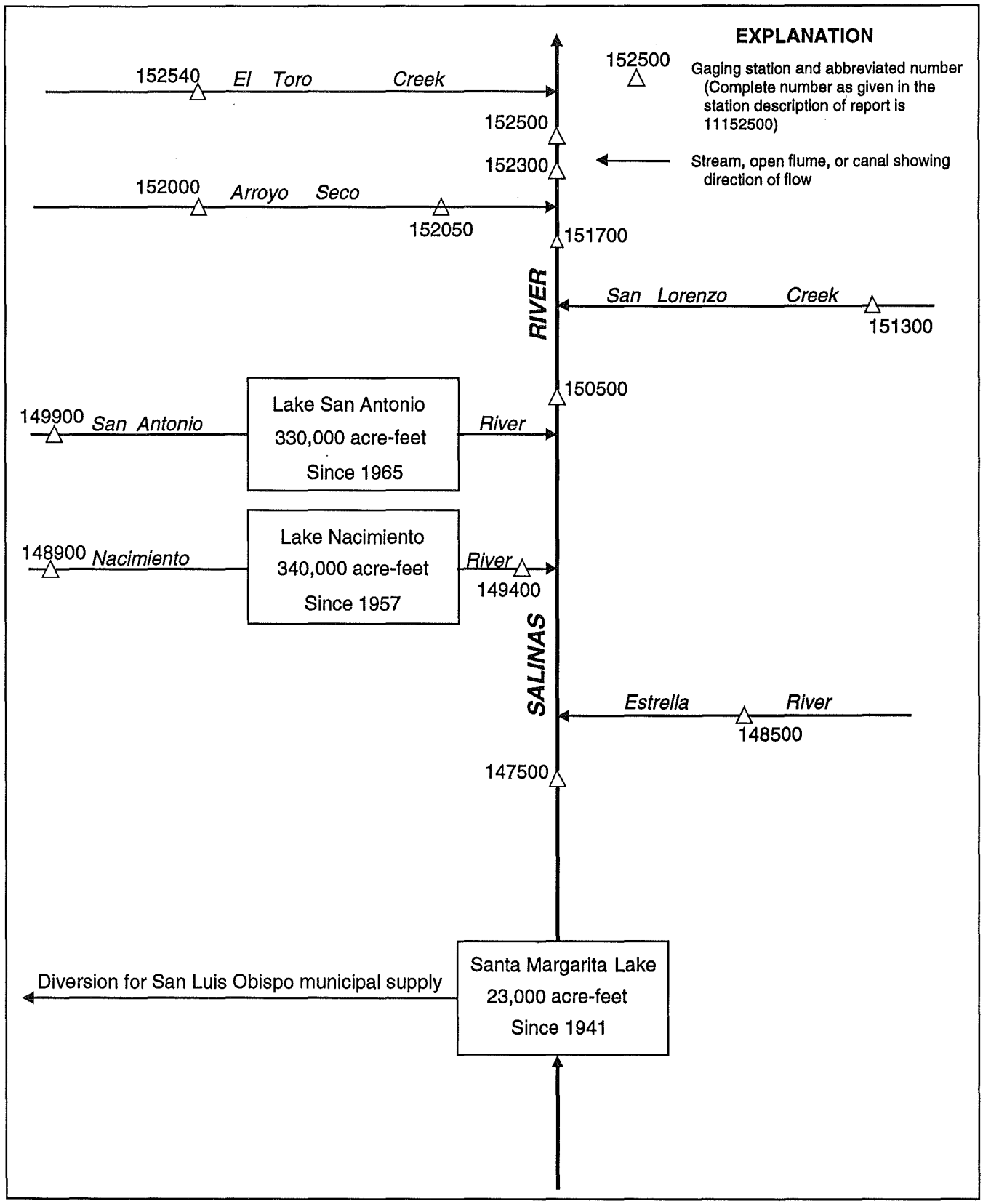
DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	START-ING TIME (2400 HOURS)	END-ING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORI-ZONTAL WIDTH OF VER-TICAL (FEET)
JAN									
10...	1630	1000	1140	0.250	0	1620	1645	20	5.0
20...	1420	1000	1140	0.250	0	1410	1435	30	3.0
20...	1450	1000	1140	0.250	0	1440	1455	30	3.0
FEB									
10...	1310	1000	1120	0.250	0	1300	1318	30	2.0
10...	1330	1000	1120	0.250	0	1323	1341	30	2.0
MAR									
08...	1315	1000	1120	0.250	0	1305	1320	30	3.0
08...	1330	1000	1120	0.250	0	1325	1340	30	3.0
13...	1715	1000	1140	0.250	0	1655	1735	30	5.0
13...	1750	1000	1140	0.250	0	1740	1805	15	5.0
APR									
12...	1010	1000	1120	0.250	0	1000	1015	30	4.0
12...	1020	1000	1120	0.250	0	1015	1030	30	4.0
MAY									
18...	1540	1000	1120	0.250	0	1535	1545	20	3.0
18...	1600	1000	1120	0.250	0	1555	1605	20	3.0
JUN									
19...	1315	1000	1120	0.250	0	1310	1325	30	2.0
19...	1340	1000	1120	0.250	0	1330	1345	30	2.0

11143250 CARMEL RIVER NEAR CARMEL, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VER-TICALS IN COM-POSITE SAMPLE (NUM)	NUMBER OF SAM-PLING POINTS (COUNT)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COM POSITE SAMPLE T/D/FT	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN									
10...	1	17	17	13.0	4160	--	7.13	606	1
20...	2	17	17	2.00	481	9.5	2.84	196	--
20...	2	17	17	2.00	486	9.5	4.83	196	--
FEB									
10...	2	22	22	3.00	223	11.5	3.67	164	--
10...	2	22	22	3.00	221	11.5	3.79	164	--
MAR									
08...	2	21	21	1.50	153	12.5	0.92	68	--
08...	2	21	21	1.50	153	12.5	1.24	68	--
13...	2	20	20	2.50	1620	12.5	12.0	900	--
13...	2	20	20	2.50	1620	12.5	6.00	900	1
APR									
12...	2	19	19	2.00	318	13.0	1.44	127	--
12...	2	19	19	2.00	318	13.0	1.91	127	--
MAY									
18...	2	24	24	1.50	190	17.5	0.46	32	--
18...	2	24	24	1.50	190	17.5	0.44	32	--
JUN									
19...	2	27	27	1.00	94	20.5	0.91	50	--
19...	2	27	27	1.00	94	20.5	0.96	50	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
JAN									
10...	5	25	51	68	77	84	90	100	--
20...	1	15	58	82	92	96	99	100	--
20...	--	10	48	75	86	92	96	97	100
FEB									
10...	--	3	37	75	90	96	99	100	--
10...	--	2	42	80	92	97	99	99	100
MAR									
08...	--	1	22	73	95	99	100	--	--
08...	--	1	20	68	93	98	100	--	--
13...	2	19	49	68	77	82	88	96	100
13...	5	32	63	80	86	90	94	100	--
APR									
12...	1	12	56	85	94	98	99	100	--
12...	--	9	60	88	95	96	97	97	100
MAY									
18...	--	6	47	88	97	99	100	--	--
18...	--	6	52	83	94	99	100	--	--
JUN									
19...	--	4	51	91	99	100	--	--	--
19...	1	6	49	88	98	99	99	100	--


EXPLANATION
152500
Gaging station and abbreviated number (Complete number as given in the station description of report is 11152500)
Stream, open flume, or canal showing direction of flow
152540 El Toro Creek
152500
152300
152000 Arroyo Seco
152050
151700
RIVER
San Lorenzo Creek
151300
150500
149900 San Antonio
Lake San Antonio
330,000 acre-feet
Since 1965
River
148900 Nacimiento
Lake Nacimiento
340,000 acre-feet
Since 1957
River
149400
SALINAS
Estrella River
148500
147500
Diversion for San Luis Obispo municipal supply
Santa Margarita Lake
23,000 acre-feet
Since 1941

11147500 SALINAS RIVER AT PASO ROBLES, CA

LOCATION.--Lat 35°37'43", long 120°41'00", in Paso de Robles Grant, San Luis Obispo County, Hydrologic Unit 18060005, on left bank at upstream side of 13th Street Bridge in Paso Robles and 3.5 mi upstream from Huerhuero Creek.

DRAINAGE AREA.--390 mi^2.

PERIOD OF RECORD.--October 1939 to September 1965, October 1969 to current year.
CHEMICAL DATA: Water years 1963-66.
SEDIMENT DATA: June 1990.

REVISED RECORDS.--WSP 981: 1942.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 670.61 ft above sea level. Prior to June 14, 1951, nonrecording gage at same site and datum.

REMARKS.--Records fair except estimated daily discharges, which are poor. Low flows regulated by Santa Margarita Lake 32 mi upstream beginning in December 1941, usable capacity, 23,000 acre-ft. Diversion from Santa Margarita Lake for San Luis Obispo municipal supply amounted to 1,630 acre-ft for the current year. Small diversions for irrigation upstream from station. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,400 ft^3/s, Mar. 10, 1995, gage height, 22.99 ft; no flow for many days in each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 23.8 ft from floodmarks, discharge, 28,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 850 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	1000	14,900	18.79	Mar. 5	1045	1,930	7.93
Jan. 24	1800	12,100	16.52	Mar. 10	2115	*28,400	*22.99
Feb. 14	0745	3,710	9.65	Mar. 23	0130	10,700	14.17

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	467	141	590	136	40	e2.7	e.00	.00
2	.00	.00	.00	.00	395	126	555	135	39	e2.4	e.00	.00
3	.00	.00	.00	7.4	349	488	467	135	36	e2.1	e.00	.00
4	.00	.00	.00	31	318	685	451	118	31	e1.9	e.00	.00
5	1.3	.00	.00	4.8	289	1350	440	107	30	e1.6	e.00	.00
6	.00	.00	.00	1.5	255	1260	380	98	28	e1.4	e.00	.00
7	.00	.03	.00	18	230	851	347	95	25	e1.2	e.00	.00
8	.00	.80	.00	5.3	248	669	329	94	e24	e1.1	e.00	.00
9	.00	4.0	.00	193	280	830	291	90	e22	e.90	e.00	.00
10	.00	8.7	.00	7650	243	19600	267	84	e21	e.67	e.00	.00
11	.00	.75	.00	3250	212	12600	264	84	e19	e.62	e.00	.00
12	.00	.16	.00	1330	202	5400	255	80	e17	e.60	e.00	.00
13	.00	.00	.00	1080	193	2850	250	64	e15	e.58	e.00	.00
14	.00	.00	.00	1580	1810	1960	241	44	e16	e.54	e.00	.00
15	.00	5.3	.00	2090	1030	1520	240	55	e17	e.50	e.00	.00
16	.00	3.5	.00	1200	714	1290	231	71	e14	e.48	e.00	.00
17	.00	.70	.00	799	544	1020	215	76	e13	e.46	e.00	.00
18	.00	.24	.00	555	468	819	209	75	e11	e.43	e.00	.00
19	.00	.00	.00	464	401	678	211	72	e10	e.41	e.00	.00
20	.00	.00	.00	399	351	595	194	69	e9.0	e.39	e.00	.00
21	.00	.00	.00	417	316	824	161	63	e8.4	e.38	e.00	.00
22	.00	.00	.00	286	276	1360	153	65	e7.4	e.37	.00	.00
23	.00	.00	.00	499	244	7230	151	65	e6.6	e.34	.00	.00
24	.00	.00	.00	5050	220	3310	148	66	e5.8	e.30	.00	.00
25	.00	.00	.00	5000	200	1880	146	69	e5.3	e.20	.00	.00
26	.00	.00	.00	2730	186	1300	145	67	e4.7	e.12	.00	.00
27	.00	.00	.00	1550	172	1000	143	66	e4.3	e.06	.00	.00
28	.00	.00	.00	1060	166	927	142	62	e3.6	e.00	.00	.00
29	.00	.00	.00	814	---	816	139	61	e3.4	e.00	.00	.00
30	.00	.00	.00	660	---	695	139	51	e3.1	e.00	.00	.00
31	.00	---	.00	545	---	632	---	44	---	e.00	.00	---
TOTAL	1.30	24.18	0.00	39269.00	10779	74706	7894	2461	489.6	22.75	0.00	0.00
MEAN	.042	.81	.000	1267	385	2410	263	79.4	16.3	.73	.000	.000
MAX	1.3	8.7	.00	7650	1810	19600	590	136	40	2.7	.00	.00
MIN	.00	.00	.00	.00	166	126	139	44	3.1	.00	.00	.00
AC-FT	2.6	48	.00	77890	21380	148200	15660	4880	971	45	.00	.00

e Estimated.

11147500 SALINAS RIVER AT PASO ROBLES, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.71	5.09	46.0	223	360	378	162	22.9	2.59	.27	.060	.97
MAX	117	86.0	581	1409	2026	2410	1980	247	30.5	4.84	1.91	44.0
(WY)	1943	1983	1983	1983	1980	1995	1958	1983	1941	1941	1942	1942
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1941	1940	1940	1948	1948	1961	1961	1959	1947	1940	1940	1940

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	2756.74		135646.83			
ANNUAL MEAN	7.55		372		98.9	
HIGHEST ANNUAL MEAN					526	1983
LOWEST ANNUAL MEAN					.000	1961
HIGHEST DAILY MEAN	1170	Feb 20	19600	Mar 10	19600	Mar 10 1995
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Nov 1 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 6	.00	Nov 1 1939
INSTANTANEOUS PEAK FLOW			28400	Mar 10	28400	Mar 10 1995
INSTANTANEOUS PEAK STAGE			22.99	Mar 10	22.99	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	5470		269100		71670	
10 PERCENT EXCEEDS	11		815		149	
50 PERCENT EXCEEDS	.00		2.7		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

11148500 ESTRELLA RIVER NEAR ESTRELLA, CA

LOCATION.--Lat 35°43'02", long 120°38'21", in NW 1/4 NW 1/4 sec.36, T.25 S., R.12 E., San Luis Obispo County, Hydrologic Unit 18060004, on right bank 0.2 mi downstream from mouth of Ranchito Canyon and 1.9 mi northwest of Estrella.

DRAINAGE AREA.--922 mi^2, not including Carrizo Plains.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1960, published as Estrella Creek near Estrella.
SEDIMENT DATA: June 1990.

REVISED RECORDS.--WSP 2129: 1969, drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 671.59 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records poor. No regulation; pumpage from wells along river for irrigation upstream from station. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft^3/s, Feb. 24, 1969, gage height, 10.4 ft, from floodmarks, by slope-area measurement of peak flow; maximum gage height, 10.9 ft, Jan. 25, 1969, from floodmarks; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	2030	1,280	3.42	Mar. 11	1015	*15,900	*7.90
Jan. 24	1645	4,230	4.74	Mar. 23	1145	5,740	5.31
Mar. 5	1600	437	2.77				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	26	2.7	87	17	3.4	.00	.00	.00
2	.00	.00	.00	.00	20	2.7	80	17	2.8	.00	.00	.00
3	.00	.00	.00	.00	15	2.2	77	13	2.8	.00	.00	.00
4	.00	.00	.00	.00	13	8.3	73	12	2.7	.00	.00	.00
5	.00	.00	.00	.00	11	168	64	12	1.8	.00	.00	.00
6	.00	.00	.00	.00	8.9	260	56	12	1.8	.00	.00	.00
7	.00	.00	.00	.00	8.7	103	38	13	2.4	.00	.00	.00
8	.00	.00	.00	.00	11	61	36	12	2.5	.00	.00	.00
9	.00	.00	.00	.00	5.4	63	36	10	2.4	.00	.00	.00
10	.00	.00	.00	392	4.1	4760	36	10	2.0	.00	.00	.00
11	.00	.00	.00	558	4.0	8740	36	10	1.9	.00	.00	.00
12	.00	.00	.00	116	4.0	1850	36	11	1.2	.00	.00	.00
13	.00	.00	.00	29	8.8	1020	36	11	.79	.00	.00	.00
14	.00	.00	.00	27	44	714	36	13	.25	.00	.00	.00
15	.00	.00	.00	9.2	93	533	37	19	.99	.00	.00	.00
16	.00	.00	.00	44	21	316	33	23	5.7	.00	.00	.00
17	.00	.00	.00	46	8.1	169	32	19	2.2	.00	.00	.00
18	.00	.00	.00	9.6	5.2	132	27	14	.99	.00	.00	.00
19	.00	.00	.00	.36	3.5	104	23	12	.34	.00	.00	.00
20	.00	.00	.00	.30	3.1	91	26	9.8	.47	.00	.00	.00
21	.00	.00	.00	2.2	2.7	96	21	8.5	.18	.00	.00	.00
22	.00	.00	.00	2.5	2.5	259	19	8.1	.00	.00	.00	.00
23	.00	.00	.00	21	2.2	3520	22	6.7	.00	.00	.00	.00
24	.00	.00	.00	1340	2.2	1160	19	6.4	.00	.00	.00	.00
25	.00	.00	.00	2730	2.2	398	20	6.2	.00	.00	.00	.00
26	.00	.00	.00	1120	2.7	270	18	5.6	.00	.00	.00	.00
27	.00	.00	.00	226	2.7	193	19	5.7	.00	.00	.00	.00
28	.00	.00	.00	121	2.7	157	18	5.5	.00	.00	.00	.00
29	.00	.00	.00	87	---	137	15	4.5	.00	.00	.00	.00
30	.00	.00	.00	50	---	124	17	4.3	.00	.00	.00	.00
31	.00	---	.00	36	---	108	---	3.9	---	.00	.00	---
TOTAL	0.00	0.00	0.00	6967.16	337.7	25521.9	1093	335.2	39.61	0.00	0.00	0.00
MEAN	.000	.000	.000	225	12.1	823	36.4	10.8	1.32	.000	.000	.000
MAX	.00	.00	.00	2730	93	8740	87	23	5.7	.00	.00	.00
MIN	.00	.00	.00	.00	2.2	2.2	15	3.9	.00	.00	.00	.00
AC-FT	.00	.00	.00	13820	670	50620	2170	665	79	.00	.00	.00

11148500 ESTRELLA RIVER NEAR ESTRELLA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.039	1.13	12.4	46.8	128	93.2	30.5	1.81	.17	.000	.000	.25
MAX	.93	29.6	371	910	1671	1016	670	25.1	2.58	.000	.000	6.53
(WY)	1977	1973	1967	1969	1969	1978	1958	1983	1969	1955	1955	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1955	1956	1960	1975	1976	1976	1972	1961	1956	1955	1955	1955

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1955 - 1995	
ANNUAL TOTAL			34294.57			
ANNUAL MEAN			94.0		25.6	
HIGHEST ANNUAL MEAN					256	1969
LOWEST ANNUAL MEAN					.000	1989
HIGHEST DAILY MEAN			8740	Mar 11	18500	Feb 10 1978
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1954
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1954
INSTANTANEOUS PEAK FLOW			15900	Mar 11	32500	Feb 24 1969
INSTANTANEOUS PEAK STAGE			7.90	Mar 11	10.90	Jan 25 1969
ANNUAL RUNOFF (AC-FT)			68020		18530	
10 PERCENT EXCEEDS	.00		83		7.0	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA

LOCATION.--Lat 35°47'19", long 121°05'34", in SW 1/4 NE 1/4 sec.3, T.25 S., R.8 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank just downstream from Sapaque Creek and 1.4 mi south of Bryson.

DRAINAGE AREA.--162 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year.

REVISED RECORDS.--WDR CA-82-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 800 ft above sea level, from topographic map.

REMARKS.--Records fair. No storage or diversion upstream from station. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,600 ft^3/s, Jan. 14, 1993, gage height, 32.14 ft, from rating curve extended above 7,900 ft^3/s on basis of slope-area measurement at 32.00 ft gage height, maximum gage height, 35.15 ft, Mar. 10, 1995; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	0245	18,200	23.35	Mar. 10	1415	e*43,100	*35.15
Jan. 24	0945	13,000	20.77				

e Estimated peak discharge based on runoff comparison.

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	9.0	371	146	355	234	47	12	1.5	.00
2	.00	.00	.00	9.2	318	165	324	206	46	12	1.3	.00
3	.00	.00	.00	138	276	512	295	175	45	11	1.0	.00
4	.00	.00	.00	1490	242	403	269	153	43	10	.70	.00
5	.00	.00	.00	1430	217	1230	248	138	40	11	.37	.00
6	.00	.00	.00	337	197	882	230	129	37	10	.13	.00
7	.00	.00	.00	1100	189	600	218	121	37	9.9	.00	.00
8	.00	.00	.00	693	279	481	203	114	36	8.8	.00	.00
9	.00	.00	.00	2180	224	5110	185	107	35	7.9	.00	.00
10	.00	.00	.00	9560	191	24400	173	102	33	6.8	.00	.00
11	.00	.00	.00	2110	176	6710	164	96	31	6.8	.00	.00
12	.00	.00	.01	1320	166	2700	154	90	31	7.1	.00	.00
13	.00	.00	.03	948	192	1570	149	95	29	7.3	.00	.00
14	.00	.00	.09	2030	914	1100	144	107	28	7.5	.00	.00
15	.00	.00	.12	1720	490	872	136	97	28	6.8	.00	.00
16	.00	.00	18	996	376	720	143	98	33	5.8	.00	.00
17	.00	.00	21	681	318	596	130	90	39	5.8	.00	.00
18	.00	.00	15	508	278	495	123	83	32	5.1	.00	.00
19	.00	.00	9.7	412	252	430	116	78	29	4.5	.00	.00
20	.00	.00	8.4	484	232	470	111	74	27	4.1	.00	.00
21	.00	.00	7.1	1540	216	673	108	69	25	3.9	.00	.00
22	.00	.00	5.8	1030	200	2740	101	69	22	3.8	.00	.00
23	.00	.00	4.9	1880	188	3160	96	68	22	3.7	.00	.00
24	.00	.00	6.8	7080	179	1340	91	65	20	3.3	.00	.00
25	.00	.00	13	2750	170	949	87	64	18	3.3	.00	.00
26	.00	.00	30	1220	163	765	82	63	17	3.2	.00	.00
27	.00	.00	20	873	157	648	79	59	15	3.0	.00	.00
28	.00	.00	17	857	150	564	100	56	13	2.8	.00	.00
29	.00	.00	14	654	---	496	110	54	12	2.4	.00	.00
30	.00	.00	11	529	---	441	357	51	12	2.2	.00	.00
31	.00	---	10	439	---	393	---	48	---	1.9	.00	---
TOTAL	0.00	0.00	211.95	47007.2	7321	61761	5081	3053	882	193.7	5.00	0.00
MEAN	.000	.000	6.84	1516	261	1992	169	98.5	29.4	6.25	.16	.000
MAX	.00	.00	30	9560	914	24400	357	234	47	12	1.5	.00
MIN	.00	.00	.00	9.0	150	146	79	48	12	1.9	.00	.00
AC-FT	.00	.00	420	93240	14520	122500	10080	6060	1750	384	9.9	.00

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.57	57.1	163	561	655	552	168	43.0	9.96	1.99	.17	.046
MAX	4.90	413	911	2440	2057	2048	1142	318	43.1	11.2	2.86	.77
(WY)	1973	1973	1983	1978	1973	1983	1982	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	3.82	16.0	4.20	1.61	.11	.000	.000	.000
(WY)	1972	1978	1991	1991	1991	1977	1977	1990	1977	1972	1972	1972

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1971 - 1995	
ANNUAL TOTAL	16273.87		125515.85			
ANNUAL MEAN	44.6		344		182	
HIGHEST ANNUAL MEAN					623	1983
LOWEST ANNUAL MEAN					5.74	1977
HIGHEST DAILY MEAN	2910	Feb 20	24400	Mar 10	24400	Mar 10 1995
LOWEST DAILY MEAN	.00	Jun 30	.00	Oct 1	.00	Sep 16 1971
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 30	.00	Oct 1	.00	Sep 16 1971
INSTANTANEOUS PEAK FLOW			e43100	Mar 10	57600	Jan 14 1993
INSTANTANEOUS PEAK STAGE			35.15	Mar 10	35.15	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	32280		249000		132000	
10 PERCENT EXCEEDS	53		686		305	
50 PERCENT EXCEEDS	.64		14		5.9	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated discharge based on runoff comparison.

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year. Published as station 11148800 "near Bryson" in water years 1958-59, 1961-71.
WATER TEMPERATURE: Water years 1972-73.
SEDIMENT DATA: Water years 1972 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1971 to September 1973.
SUSPENDED-SEDIMENT DISCHARGE: October 1971 to September 1973.
REMARKS.--Zero bedload discharge observed for flows less than 184 ft^3/s during current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 4.00 MM
JAN												
17...	1305	666	9.5	4	7.2	--	--	--	--	--	--	--
24...	1400	8010	11.5	548	11900	43	50	64	83	92	92	100
FEB												
07...	1140	184	12.0	1	0.50	--	--	--	--	--	--	--
MAR												
06...	1245	843	12.0	10	23	94	--	--	--	--	--	--
APR												
10...	1140	173	13.5	3	1.4	--	--	--	--	--	--	--
MAY												
08...	1110	113	16.0	2	0.61	--	--	--	--	--	--	--
JUN												
06...	1150	37	21.5	1	0.10	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	NUMBER OF SAM-PLING POINTS (COUNT)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM
JUN								
06...	1110	1	37	21.5	--	2	8	20
06...	1112	1	37	21.5	--	4	13	26
06...	1114	1	37	21.5	--	2	6	16
06...	1116	1	37	21.5	1	5	8	12
06...	1118	1	37	21.5	--	--	--	--
06...	1120	1	37	21.5	--	1	1	1

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
JUN							
06...	40	69	91	100	--	--	--
06...	37	53	73	94	100	--	--
06...	24	32	47	77	93	100	--
06...	23	37	53	75	100	--	--
06...	1	5	28	66	87	100	--
06...	2	4	8	21	67	79	100

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)
JAN												
17...	1400	1000	1100	0.250	0	1355	1410	30	5.0	2	13	13
17...	1430	1000	1100	0.250	0	1420	1435	30	5.0	2	13	13
MAR												
06...	1315	1000	1100	0.250	0	1310	1325	30	5.0	2	16	16
06...	1350	1000	1100	0.250	0	1340	1355	30	5.0	2	16	16

DATE	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COMPOSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
JAN											
17...	15.0	656	9.5	0.33	28	1	22	73	97	100	--
17...	15.0	643	9.5	0.53	28	--	21	82	98	100	--
MAR											
06...	8.00	840	12.0	0.59	37	14	55	87	97	100	--
06...	8.00	833	12.0	0.34	37	6	33	79	94	99	100

11149400 NACIMIENTO RIVER BELOW NACIMIENTO DAM, NEAR BRADLEY, CA

LOCATION.--Lat 35°45'41", long 120°51'16", in NE 1/4 NE 1/4 sec.14, T.25 S., R.10 E., San Luis Obispo County, Hydrologic Unit 18060005, Camp Roberts Military Reservation, on left bank 2.2 mi downstream from Nacimiento Dam, and 7.6 mi southwest of Bradley.

DRAINAGE AREA.--329 mi^2.

PERIOD OF RECORD.--October 1957 to current year.
CHEMICAL DATA: Water years 1963-66.

REVISED RECORDS.--WDR CA-84-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 597 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except those for Mar. 31 to May 31, which are poor. Flow regulated by Lake Nacimiento (formerly Nacimiento Reservoir) beginning in February 1957, usable capacity, 340,000 acre-ft. No diversion upstream from station. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,340 ft^3/s, Feb. 25, 1969, gage height, 10.92 ft; no flow at times in 1958-63, 1965, 1977, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,180 ft^3/s, Mar. 14, gage height, 9.79 ft; minimum daily, 0.54 ft^3/s, Jan. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	367	284	6.2	2.3	22	23	39	32	32	325	41	33
2	361	283	5.9	2.2	22	23	38	32	30	327	29	33
3	351	280	6.5	4.2	21	23	37	32	33	318	29	33
4	360	278	6.9	8.3	22	23	37	31	34	325	30	33
5	368	275	6.5	5.1	22	24	37	31	34	327	29	242
6	368	272	6.6	2.0	22	23	37	31	35	325	29	865
7	323	258	7.1	5.0	22	23	36	31	35	383	29	1130
8	293	245	6.5	2.9	22	23	36	31	36	435	29	1120
9	293	244	5.4	6.3	22	25	34	31	37	434	30	1120
10	295	212	5.0	16	22	759	33	31	36	431	30	1120
11	297	127	5.5	5.7	23	3260	34	31	37	465	30	1120
12	298	39	6.1	1.9	23	5090	35	31	38	486	29	1110
13	299	7.2	5.9	1.1	23	3500	35	31	39	485	30	1100
14	300	6.1	4.8	1.1	23	3600	34	31	40	484	30	1090
15	301	6.0	.62	1.2	22	4100	34	31	41	482	30	1080
16	301	6.2	1.9	.86	23	4380	34	31	94	482	30	1020
17	300	6.4	5.2	.54	23	2120	34	33	217	488	30	860
18	300	6.4	6.4	.61	23	346	34	34	192	509	30	751
19	299	6.5	5.5	.59	23	145	33	34	212	507	30	659
20	300	6.8	3.8	.99	23	45	33	33	211	505	31	659
21	299	6.6	3.6	1.7	23	43	32	34	211	504	30	657
22	298	6.2	3.6	1.1	24	44	32	33	211	504	31	638
23	292	6.4	4.2	2.1	23	59	32	33	209	504	31	574
24	295	6.7	4.8	15	24	634	31	33	170	470	31	574
25	295	6.7	4.4	17	23	3120	31	34	170	444	33	573
26	295	6.9	4.6	23	23	3580	31	34	251	444	32	544
27	294	6.9	4.2	22	23	1600	31	33	324	444	32	426
28	291	6.6	1.9	22	23	365	31	30	317	439	32	450
29	289	6.5	2.0	21	---	274	31	31	323	427	29	450
30	287	6.5	2.0	21	---	228	31	31	325	427	33	451
31	284	---	1.9	21	---	43	---	32	---	280	33	---
TOTAL	9593	2914.6	145.52	235.79	634	37545	1017	991	3974	13410	952	20515
MEAN	309	97.2	4.69	7.61	22.6	1211	33.9	32.0	132	433	30.7	684
MAX	368	284	7.1	23	24	5090	39	34	325	509	41	1130
MIN	284	6.0	.62	.54	21	23	31	30	30	280	29	33
AC-FT	19030	5780	289	468	1260	74470	2020	1970	7880	26600	1890	40690

11149400 NACIMIENTO RIVER BELOW NACIMIENTO DAM, NEAR BRADLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	237	112	112	219	437	297	159	214	297	382	399	368
MAX	501	618	1629	1868	2787	3016	1501	1067	581	662	802	684
(WY)	1983	1983	1983	1980	1983	1969	1958	1983	1969	1958	1967	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	1.16	2.44	.000	.000
(WY)	1958	1958	1958	1962	1962	1961	1961	1961	1990	1990	1961	1961

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1958 - 1995	
ANNUAL TOTAL	64609.32		91926.91			
ANNUAL MEAN	177		252		268	
HIGHEST ANNUAL MEAN					1038	1983
LOWEST ANNUAL MEAN					3.43	1990
HIGHEST DAILY MEAN	446	Sep 14	5090	Mar 12	6770	Feb 26 1969
LOWEST DAILY MEAN	.62	Dec 15	.54	Jan 17	.00	Oct 1 1957
ANNUAL SEVEN-DAY MINIMUM	3.0	Dec 25	.84	Jan 14	.00	Oct 1 1957
INSTANTANEOUS PEAK FLOW			5180	Mar 14	7340	Feb 25 1969
INSTANTANEOUS PEAK STAGE			9.79	Mar 14	10.92	Feb 25 1969
ANNUAL RUNOFF (AC-FT)	128200		182300		194500	
10 PERCENT EXCEEDS	396		504		511	
50 PERCENT EXCEEDS	141		33		123	
90 PERCENT EXCEEDS	6.5		5.3		1.2	

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA

LOCATION.--Lat 35°53'48", long 121°05'14", in Los Ojitos Grant, Monterey County, Hydrologic Unit 18060005, on downstream side of highway bridge, 0.4 mi upstream from Tule Canyon, and 3.3 mi south of Lockwood.

DRAINAGE AREA.--217 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR CA-82-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 795.00 ft above sea level. Prior to Aug. 28, 1975, at datum 5.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation; some pumping upstream from station. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,600 ft^3/s, Mar. 10, 1995, gage height, 14.25 ft, current datum, from rating curve extended above 8,000 ft^3/s, on basis of contracted-opening measurement at gage height 12.6 ft; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 5	0345	1,870	8.95	Mar. 10	1415	*23,600	*14.25
Jan. 10	0730	7,370	11.44	Mar. 22	2400	3,310	9.49
Jan. 24	1400	6,370	11.13				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	386	72	472	238	64	22	2.4	.00
2	.00	.00	.00	.00	337	71	437	208	61	20	2.4	.00
3	.00	.00	.00	.00	296	105	399	179	59	20	1.9	.00
4	.00	.00	.00	.00	267	123	370	164	59	20	1.3	.00
5	.00	.00	.00	695	245	195	341	150	57	18	.98	.00
6	.00	.00	.00	204	226	268	316	143	53	17	e.65	.00
7	.00	.00	.00	206	212	207	294	138	52	17	e.50	.00
8	.00	.00	.00	260	218	171	274	131	52	15	e.35	.00
9	.00	.00	.00	213	196	1150	252	126	51	14	e.30	.00
10	.00	.00	.00	3150	174	14000	237	119	49	14	e.25	.00
11	.00	.00	.00	1680	159	8510	222	117	46	13	e.20	.00
12	.00	.00	.00	1000	149	3070	212	112	45	13	e.18	.00
13	.00	.00	.00	726	142	1870	203	111	43	12	e.17	.00
14	.00	.00	.00	837	262	1370	194	114	42	e10	e.16	.00
15	.00	.00	.00	989	241	1080	187	112	42	e9.8	e.15	.00
16	.00	.00	.00	683	198	898	184	111	43	e9.5	e.14	.00
17	.00	.00	.00	505	170	762	173	107	43	e9.2	.13	.00
18	.00	.00	.00	389	150	649	165	105	41	e8.8	.07	.00
19	.00	.00	.00	313	137	568	157	98	38	8.2	.00	.00
20	.00	.00	.00	276	128	509	151	93	38	7.9	.00	.00
21	.00	.00	.00	654	116	589	144	92	38	7.4	.00	.00
22	.00	.00	.00	525	106	1130	141	91	37	6.5	.00	.00
23	.00	.00	.00	904	102	2250	138	89	34	5.7	.00	.00
24	.00	.00	.00	3590	95	1340	133	87	32	5.6	.00	.00
25	.00	.00	.00	1960	89	1050	124	87	31	5.0	.00	.00
26	.00	.00	.00	1100	85	889	116	84	28	4.6	.00	.00
27	.00	.00	.00	826	81	777	113	80	26	4.0	.00	.00
28	.00	.00	.00	733	78	695	125	76	25	3.5	.00	.00
29	.00	.00	.00	622	---	627	131	71	23	3.3	.00	.00
30	.00	.00	.00	527	---	565	252	67	22	3.0	.00	.00
31	.00	---	.00	448	---	512	---	65	---	2.5	.00	---
TOTAL	0.00	0.00	0.00	24015.00	5045	46072	6657	3565	1274	329.5	12.23	0.00
MEAN	.000	.000	.000	775	180	1486	222	115	42.5	10.6	.39	.000
MAX	.00	.00	.00	3590	386	14000	472	238	64	22	2.4	.00
MIN	.00	.00	.00	.00	78	71	113	65	22	2.5	.00	.00
AC-FT	.00	.00	.00	47630	10010	91380	13200	7070	2530	654	24	.00

e Estimated.

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.39	15.2	77.0	293	358	358	129	42.0	12.4	2.89	.24	.064
MAX	11.7	108	573	1515	1807	1856	637	167	51.9	22.9	6.83	1.91
(WY)	1984	1984	1967	1969	1986	1983	1982	1983	1978	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.058	.005	.000	.000	.000	.000	.000
(WY)	1966	1967	1977	1977	1977	1977	1977	1977	1972	1966	1966	1966

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	5136.43		86969.73			
ANNUAL MEAN	14.1		238		106	
HIGHEST ANNUAL MEAN					455	1983
LOWEST ANNUAL MEAN					.005	1977
HIGHEST DAILY MEAN	691	Feb 20	14000	Mar 10	14000	Mar 10 1995
LOWEST DAILY MEAN	.00	Jun 13	.00	Oct 1	.00	Oct 1 1965
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 13	.00	Oct 1	.00	Oct 1 1965
INSTANTANEOUS PEAK FLOW			23600	Mar 10	23600	Mar 10 1995
INSTANTANEOUS PEAK STAGE			14.25	Mar 10	14.25	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	10190		172500		76970	
10 PERCENT EXCEEDS	34		566		212	
50 PERCENT EXCEEDS	.00		17		3.3	
90 PERCENT EXCEEDS	.00		.00		.00	

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
WATER TEMPERATURE: Water years 1966-73.
SEDIMENT DATA: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1965 to September 1973.
SUSPENDED-SEDIMENT DISCHARGE: October 1965 to September 1973.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN						
19...	1240	308	10.0	20	17	32
FEB						
01...	1410	382	15.5	19	20	37
MAR						
16...	1055	912	14.0	140	345	28
APR						
11...	1145	216	15.5	44	26	20
MAY						
05...	1130	151	16.5	19	7.7	--
JUN						
12...	1140	46	23.0	2	0.25	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	NUMBER OF SAMPLING POINTS (COUNT)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY								
23...	1015	1	89	17.0	--	1	3	8
23...	1016	1	89	17.0	--	--	--	8
23...	1017	1	89	17.0	--	--	--	7
23...	1018	1	89	17.0	--	--	--	10
23...	1019	1	89	17.0	--	--	--	5
23...	1020	1	89	17.0	--	--	--	6
23...	1021	1	89	17.0	1	3	12	29

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAY							
23...	21	38	54	66	82	96	100
23...	42	83	96	99	100	--	--
23...	29	58	82	93	99	100	--
23...	42	77	93	97	99	100	--
23...	32	66	84	91	95	100	--
23...	38	74	92	98	100	--	--
23...	50	68	77	83	93	100	--

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)
JAN									
19...	1310	1000	1140	0.250	0	1300	1320	30	10.0
19...	1330	1000	1140	0.250	0	1320	1335	30	10.0
FEB									
01...	1430	1000	1120	0.250	0	1425	1440	30	10.0
01...	1445	1000	1120	0.250	0	1440	1455	30	10.0
MAR									
16...	1115	1000	1120	0.250	0	1110	1120	10	12.0
16...	1135	1000	1120	0.250	0	1125	1145	20	12.0
APR									
11...	1210	1000	1120	0.250	0	1200	1215	30	3.5
11...	1225	1000	1120	0.250	0	1220	1235	30	3.5
MAY									
05...	1145	1000	1120	0.250	0	1135	1150	30	3.0
05...	1200	1000	1120	0.250	0	1150	1205	30	3.0

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COM POSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)
JAN								
19...	2	18	18	1.50	307	10.0	1.40	228
19...	2	18	18	1.50	308	10.0	1.13	228
FEB								
01...	2	19	19	5.00	385	15.5	1.18	256
01...	2	19	19	5.00	385	15.5	1.52	256
MAR								
16...	2	20	20	9.00	920	14.0	2.79	755
16...	2	20	20	9.00	905	14.0	3.50	755
APR								
11...	2	20	20	0.75	218	15.5	2.01	124
11...	2	20	20	0.75	217	15.5	1.51	124
MAY								
05...	2	21	21	0.50	151	16.5	2.07	144
05...	2	21	21	0.50	151	16.5	2.50	144

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
JAN								
19...	1	14	47	78	92	96	99	100
19...	1	10	44	76	90	95	99	100
FEB								
01...	1	11	44	76	90	95	99	100
01...	1	12	47	79	90	95	98	100
MAR								
16...	4	19	44	66	80	88	97	100
16...	3	19	57	82	93	96	99	100
APR								
11...	1	15	49	75	87	94	98	100
11...	2	18	56	81	91	96	100	--
MAY								
05...	1	16	54	81	92	96	99	100
05...	1	16	54	79	89	94	98	100

11150500 SALINAS RIVER NEAR BRADLEY, CA

LOCATION.--Lat 35°55'49", long 120°52'04", in SW 1/4 NW 1/4 sec.14, T.23 S., R.10 E., Monterey County, Hydrologic Unit 18060005, on left bank 6 mi northwest of Bradley and 7 mi downstream from San Antonio River.

DRAINAGE AREA.--2,535 mi^2.

PERIOD OF RECORD.--October 1948 to September 1956, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B.
CHEMICAL DATA: Water years 1958, 1962-66, 1972-75, 1977, 1980, 1981.
SEDIMENT DATA: Water years 1950, 1990.

REVISED RECORDS.--WSP 1285: 1950. WDR CA-84-2: 1978.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 442.69 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Santa Margarita Lake beginning in December 1941, usable capacity, 23,000 acre-ft; Lake Nacimiento (formerly Nacimiento Reservoir) beginning in February 1957, usable capacity, 340,000 acre-ft; and Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Several small diversions upstream from station. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft^3/s, Mar. 11, 1995, gage height, 23.44 ft, from rating curve extended above 50,000 ft^3/s; no flow at times in 1951, 1954-55, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 120,000 ft^3/s, Mar. 11, gage height, 23.44 ft; minimum daily, 39 ft^3/s, Aug. 30, 31, Sept. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e538	350	114	181	e747	360	1090	226	109	e325	e160	40
2	e530	348	115	178	e662	e347	962	224	106	e325	e50	41
3	e520	345	113	183	e599	e351	e860	215	102	e325	e45	40
4	e515	347	112	142	e566	799	e780	199	98	e325	e45	40
5	e510	349	112	94	e544	1160	e740	188	92	e325	e45	39
6	e510	345	113	72	e508	2010	e680	188	87	e325	e45	434
7	e470	347	113	69	e449	1570	e610	185	84	e350	e45	1040
8	e440	325	107	67	e407	1130	e560	185	82	e420	e45	1130
9	e410	319	110	68	e385	1050	e510	179	76	e450	e45	1130
10	e410	325	111	4120	e364	35300	e470	174	76	e450	e45	1130
11	e410	287	104	7610	e339	63900	e440	167	75	e480	44	1150
12	e410	269	104	2150	e307	21300	e425	159	71	e500	44	1140
13	e410	271	120	1810	e284	9920	e410	156	67	e500	45	1120
14	408	251	120	1330	904	6110	e410	153	62	e500	44	1120
15	412	242	169	2560	1580	6800	e410	158	e55	e500	44	1110
16	417	237	177	1960	1130	6880	e405	179	e100	e500	43	1110
17	424	223	178	1400	e824	5470	e405	191	e210	e500	43	940
18	409	219	180	1030	e680	2040	e395	190	e210	e510	43	876
19	404	223	178	847	e588	1510	384	176	e200	e510	43	700
20	397	222	179	784	e544	1170	364	159	e200	e510	44	689
21	386	218	178	806	541	1240	332	152	e195	e510	43	e700
22	379	215	178	709	514	1600	306	147	e195	e510	43	e693
23	383	215	185	752	495	12500	286	139	e195	e510	43	e620
24	386	176	196	4090	484	7660	276	137	e170	e480	42	e584
25	379	141	196	12500	e426	6870	263	137	e150	e460	43	e598
26	377	131	192	5750	e398	6940	247	138	e230	e450	44	e599
27	375	123	187	2760	e381	5190	232	134	e310	e450	43	e484
28	368	120	188	1780	372	2350	221	132	e320	e445	41	e465
29	359	116	185	e1330	---	1890	213	128	e325	e440	41	e472
30	355	115	178	e1050	---	1660	215	124	e325	e440	39	e465
31	351	---	179	e865	---	1300	---	117	---	e300	39	---
TOTAL	13052	7414	4671	59047	16022	218377	13901	5136	4577	13625	1468	20700
MEAN	421	247	151	1905	572	7044	463	166	153	440	47.4	690
MAX	538	350	196	12500	1580	63900	1090	226	325	510	160	1150
MIN	351	115	104	67	284	347	213	117	55	300	39	39
AC-FT	25890	14710	9260	117100	31780	433200	27570	10190	9080	27030	2910	41060

e Estimated.

11150500 SALINAS RIVER NEAR BRADLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1956, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.23	100	752	1457	685	878	310	139	21.1	3.41	2.03	1.74
MAX	4.04	742	2319	5372	1449	2724	580	249	55.3	6.26	4.16	4.46
(WY)	1951	1951	1956	1952	1950	1952	1952	1955	1956	1953	1952	1952
MIN	1.64	4.40	11.0	140	238	293	87.4	40.7	7.87	1.64	.000	.000
(WY)	1955	1956	1954	1949	1953	1950	1951	1949	1950	1951	1955	1955

SUMMARY STATISTICS	WATER YEARS 1949 - 1956	
ANNUAL MEAN	363	
HIGHEST ANNUAL MEAN	945	1952
LOWEST ANNUAL MEAN	152	1955
HIGHEST DAILY MEAN	22000	Dec 24 1955
LOWEST DAILY MEAN	.00	Aug 15 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 15 1951
INSTANTANEOUS PEAK FLOW	26800	Jan 15 1952
INSTANTANEOUS PEAK STAGE	12.35	Jan 15 1952
ANNUAL RUNOFF (AC-FT)	263100	
10 PERCENT EXCEEDS	745	
50 PERCENT EXCEEDS	16	
90 PERCENT EXCEEDS	1.6	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	281	156	207	629	1295	1051	496	318	389	467	499	439
MAX	632	559	2152	4641	8425	7044	5642	1792	845	683	770	743
(WY)	1970	1983	1983	1969	1969	1995	1958	1983	1994	1994	1991	1969
MIN	3.00	5.00	7.58	9.26	10.6	16.3	12.1	4.50	2.98	.84	.37	1.47
(WY)	1962	1962	1991	1991	1991	1990	1990	1961	1990	1990	1990	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1958 - 1995	
ANNUAL TOTAL	121727		377990			
ANNUAL MEAN	333		1036		515	
HIGHEST ANNUAL MEAN					1997	1983
LOWEST ANNUAL MEAN					9.39	1990
HIGHEST DAILY MEAN	1350	Jun 11	63900	Mar 11	63900	Mar 11 1995
LOWEST DAILY MEAN	14	May 30	39	Aug 30	.07	Sep 9 1990
ANNUAL SEVEN-DAY MINIMUM	15	May 26	40	Aug 30	.09	Sep 4 1990
INSTANTANEOUS PEAK FLOW			120000	Mar 11	120000	Mar 11 1995
INSTANTANEOUS PEAK STAGE			23.44	Mar 11	23.44	Mar 11 1995
ANNUAL RUNOFF (AC-FT)	241400		749700		372800	
10 PERCENT EXCEEDS	694		1310		660	
50 PERCENT EXCEEDS	187		347		302	
90 PERCENT EXCEEDS	23		59		20	

11151300 SAN LORENZO CREEK BELOW BITTERWATER CREEK, NEAR KING CITY, CA

LOCATION.--Lat 36°16'05", long 121°03'55", in NE 1/4 sec.23, T.19 S., R.8 E., Monterey County, Hydrologic Unit 18060005, on left bank 1.3 mi downstream from Bitterwater Creek, 5 mi northeast of King City, and 10 mi upstream from mouth.
DRAINAGE AREA.--233 mi^2.
PERIOD OF RECORD.--October 1958 to current year.
CHEMICAL DATA: Water year 1977
REVISED RECORDS.--WDR CA-85-2: 1969-84(M).
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 431.48 ft above sea level. October 1958 to Apr. 24, 1967, at site 500 ft upstream at datum 5.00 ft higher. Apr. 25, 1967, to July 12, 1981, at site 200 ft upstream.

REMARKS.--No estimated daily discharges. Records fair. No regulation; small diversions upstream from station by ranchers and sand-processing plant. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft^3/s, Jan. 25, 1969, gage height, 15.33 ft, in gage well, 16.2 ft, from floodmarks, from rating curve extended above 7,100 ft^3/s on basis of slope-area measurement of peak flow; no flow for many days in 1961 and 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	1000	929	5.75	Mar. 5	0615	1,010	5.91
Jan. 24	1815	4,080	9.97	Mar. 10	1745	*11,100	*14.78
Feb. 14	0900	444	4.22	Mar. 22	2130	3,490	9.39

Minimum daily, 0.44 ft^3/s, Oct. 29

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	.84	1.9	1.9	10	3.2	65	23	6.0	4.2	1.4	1.8
2	.77	.90	1.9	1.9	8.5	3.3	60	21	5.9	4.0	1.2	1.8
3	.74	.90	1.9	3.0	7.0	20	55	18	5.6	3.7	1.4	1.8
4	.71	.90	1.9	5.6	5.7	50	50	17	5.1	3.9	1.4	2.0
5	1.3	.99	1.9	29	4.9	379	48	17	4.7	3.7	1.4	2.1
6	1.4	1.0	1.9	14	4.7	183	45	18	4.4	3.2	1.3	2.3
7	1.1	1.3	1.7	7.5	4.4	52	43	16	4.9	2.7	1.2	2.1
8	1.0	1.7	1.7	13	4.7	27	41	15	6.2	2.3	1.2	2.0
9	.92	1.8	1.7	9.4	6.1	460	38	14	5.7	2.1	1.1	2.1
10	.87	3.2	1.7	374	6.0	5860	38	13	5.3	2.0	1.1	2.1
11	.79	2.2	1.7	249	4.8	1440	36	12	4.4	2.0	1.2	2.2
12	.79	1.7	1.9	22	4.3	490	35	12	3.9	2.0	1.3	2.2
13	.79	1.5	2.4	12	4.1	307	36	17	3.6	1.9	1.2	2.2
14	.84	1.3	2.1	11	118	206	37	26	3.7	1.8	1.1	2.2
15	.90	1.4	2.0	49	26	135	35	27	6.5	1.6	1.2	2.2
16	.90	2.1	1.9	20	11	105	37	22	14	1.5	1.2	2.2
17	.91	1.9	1.9	11	7.0	88	34	17	11	1.6	1.2	2.3
18	1.0	1.7	1.9	8.7	4.8	80	33	15	7.8	9.5	1.1	2.3
19	.90	1.6	1.7	7.0	3.7	60	31	13	6.7	5.7	1.2	2.1
20	.90	1.5	1.7	8.0	3.5	59	27	12	6.2	4.8	1.1	1.9
21	.88	1.5	1.7	42	3.3	138	27	11	5.9	4.2	1.1	1.8
22	.79	1.5	1.7	19	3.1	659	24	12	5.4	3.5	1.1	1.7
23	.79	1.5	1.7	39	3.0	1020	23	11	5.2	3.0	1.1	1.8
24	.79	1.6	2.2	1830	3.0	352	21	11	4.9	2.6	1.1	1.9
25	.82	1.7	2.7	703	3.0	241	19	12	4.5	2.5	1.1	2.0
26	.90	2.3	2.1	112	3.0	190	19	11	4.0	2.1	1.2	2.1
27	.95	2.3	2.0	48	3.0	133	19	9.0	4.2	1.9	1.1	2.0
28	.87	2.0	1.9	42	3.0	105	20	8.6	4.3	1.8	1.1	1.8
29	.44	1.9	1.9	28	---	91	23	7.7	4.1	1.7	1.2	1.7
30	.62	1.9	1.9	17	---	81	26	6.6	4.1	1.6	1.4	1.9
31	.74	---	1.9	13	---	72	---	5.9	---	1.5	1.4	---
TOTAL	26.87	48.63	59.1	3750.0	273.6	13089.5	1045	450.8	168.2	90.6	37.4	60.6
MEAN	.87	1.62	1.91	121	9.77	422	34.8	14.5	5.61	2.92	1.21	2.02
MAX	1.4	3.2	2.7	1830	118	5860	65	27	14	9.5	1.4	2.3
MIN	.44	.84	1.7	1.9	3.0	3.2	19	5.9	3.6	1.5	1.1	1.7
AC-FT	53	96	117	7440	543	25960	2070	894	334	180	74	120

11151300 SAN LORENZO CREEK BELOW BITTERWATER CREEK, NEAR KING CITY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.68	3.92	9.41	41.0	48.1	45.9	15.1	4.42	1.87	.89	.63	1.16
MAX	20.0	34.7	62.6	401	409	422	113	63.6	31.9	15.0	7.26	17.9
(WY)	1977	1966	1967	1969	1969	1995	1983	1983	1983	1983	1983	1976
MIN	.053	.058	.073	.065	.25	.59	.19	.070	.040	.050	.000	.030
(WY)	1991	1991	1991	1991	1991	1964	1964	1992	1961	1992	1973	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1959 - 1995	
ANNUAL TOTAL	852.44		19100.30			
ANNUAL MEAN	2.34		52.3		14.4	
HIGHEST ANNUAL MEAN					80.8	1969
LOWEST ANNUAL MEAN					.66	1968
HIGHEST DAILY MEAN	215	Feb 20	5860	Mar 10	5860	Mar 10 1995
LOWEST DAILY MEAN	.06	Jul 10	.44	Oct 29	.00	Jun 12 1961
ANNUAL SEVEN-DAY MINIMUM	.09	Aug 22	.76	Oct 28	.00	Jun 12 1961
INSTANTANEOUS PEAK FLOW			11100	Mar 10	11500	Jan 25 1969
INSTANTANEOUS PEAK STAGE			14.78	Mar 10	15.33	Jan 25 1969
ANNUAL RUNOFF (AC-FT)	1690		37890		10400	
10 PERCENT EXCEEDS	2.8		50		16	
50 PERCENT EXCEEDS	1.4		3.2		1.2	
90 PERCENT EXCEEDS	.15		1.1		.10	

11151700 SALINAS RIVER AT SOLEDAD, CA

LOCATION.--Lat 36°24'40", long 121°19'06", on boundary between San Vicente and Los Coches Grants, Monterey County, Hydrologic Unit 18060005, near right bank on upstream end of pier on U.S. Highway 101, 0.9 mi south of Soledad, and 1 mi upstream from Arroyo Seco.

DRAINAGE AREA.--3,563 mi^2.

PERIOD OF RECORD.--October 1968 to September 1978, October 1983 to current year.
CHEMICAL DATA: Water years 1972-75, 1977.
SEDIMENT DATA: Water years 1990, 1992.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 170 ft above sea level, from topographic map.

REMARKS.--Records fair except those for March and estimated daily discharges, which are poor. Flow regulated by Santa Margarita Lake beginning in December 1941, usable capacity, 23,000 acre-ft; Lake Nacimiento (formerly Nacimiento Reservoir) beginning in February 1957, usable capacity, 340,000 acre-ft; and by Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Several small diversions for irrigation upstream from station. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 106,000 ft^3/s, Feb. 25, 1969, gage height, 23.31 ft; maximum gage height, 26.49 ft, Mar. 11, 1995; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 104,000 ft^3/s, Mar. 11, gage height, 26.49 ft; minimum daily, 6.3 ft^3/s, Aug. 31 to Sept. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	204	90	120	1050	339	e2400	335	98	102	165	e6.3
2	278	204	90	120	947	328	e2200	321	88	113	134	e6.3
3	283	200	90	124	864	311	2050	314	79	127	88	e6.3
4	282	191	87	136	786	316	1810	291	73	140	57	e6.3
5	287	191	85	198	696	614	1610	268	70	156	38	e6.3
6	292	199	79	137	629	1090	1490	248	69	151	28	e15
7	277	203	75	132	575	1710	1380	241	70	149	24	21
8	264	212	71	118	536	1390	1270	245	61	147	22	19
9	256	216	70	113	498	1340	1150	228	58	144	21	17
10	243	229	70	1470	462	15400	1070	206	51	196	18	16
11	228	228	71	3100	451	64400	969	187	47	216	17	113
12	217	218	73	4850	429	48400	862	167	47	225	15	258
13	211	195	73	e1870	406	16600	782	179	45	227	14	342
14	210	181	73	e1460	395	10300	719	183	46	227	13	412
15	211	174	73	1180	715	9800	637	197	46	220	13	464
16	216	170	75	1850	1040	9290	612	180	48	210	12	519
17	223	166	88	1330	918	9010	593	155	45	220	12	569
18	221	160	97	1050	811	6330	573	163	43	228	11	562
19	215	154	104	872	701	3380	547	171	47	226	10	519
20	200	151	109	759	618	2690	512	169	43	231	9.3	419
21	197	149	114	756	555	2330	488	165	39	229	8.7	361
22	205	139	117	710	502	2380	456	168	45	223	8.2	346
23	207	136	117	660	460	10100	436	165	51	229	7.9	345
24	209	137	118	1430	435	13600	408	149	46	241	8.0	329
25	207	138	120	7950	410	8810	388	135	37	242	e8.0	322
26	207	134	120	9420	387	e8200	359	118	36	231	e7.9	330
27	205	117	120	5120	376	e7200	345	105	35	207	e7.7	327
28	204	106	120	2580	354	e5200	323	106	32	194	e7.5	311
29	204	98	120	1750	---	e3200	311	108	45	194	e7.1	264
30	204	93	120	1340	---	e2900	329	111	73	195	e6.7	248
31	205	---	120	1170	---	e2600	---	108	---	189	e6.3	---
TOTAL	7159	5093	2949	53875	17006	269558	27079	5886	1613	6029	805.3	7479.5
MEAN	231	170	95.1	1738	607	8695	903	190	53.8	194	26.0	249
MAX	292	229	120	9420	1050	64400	2400	335	98	242	165	569
MIN	197	93	70	113	354	311	311	105	32	102	6.3	6.3
AC-FT	14200	10100	5850	106900	33730	534700	53710	11670	3200	11960	1600	14840

e Estimated.

11151700 SALINAS RIVER AT SOLEDAD, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	176	116	136	765	1298	1237	293	132	135	146	154	193
MAX	488	336	876	5099	9295	8695	1834	661	456	390	327	478
(WY)	1970	1970	1984	1969	1969	1995	1969	1969	1969	1969	1969	1969
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1969 - 1995	
ANNUAL TOTAL	57349.94		404531.8			
ANNUAL MEAN	157		1108		394	
HIGHEST ANNUAL MEAN					1981	1969
LOWEST ANNUAL MEAN					.000	1990
HIGHEST DAILY MEAN	655	Jun 13	64400	Mar 11	68300	Feb 25 1969
LOWEST DAILY MEAN	.00	May 26	6.3	Aug 31	.00	Mar 9 1977
ANNUAL SEVEN-DAY MINIMUM	.00	May 26	6.4	Aug 30	.00	Mar 9 1977
INSTANTANEOUS PEAK FLOW			104000	Mar 11	106000	Feb 25 1969
INSTANTANEOUS PEAK STAGE			26.49	Mar 11	26.49	Mar 11 1995
ANNUAL RUNOFF (AC-FT)	113800		802400		285300	
10 PERCENT EXCEEDS	292		1650		468	
50 PERCENT EXCEEDS	140		207		124	
90 PERCENT EXCEEDS	3.4		30		.00	

11152000 ARROYO SECO NEAR SOLEDAD, CA

LOCATION.--Lat 36°16'50", long 121°19'18", in SW 1/4 NE 1/4 sec.16, T.19 S., R.6 E., Monterey County, Hydrologic Unit 18060005, on right bank under county road bridge, 1.5 mi downstream from Vaquero Creek, and 10 mi south of Soledad.

DRAINAGE AREA.--244 mi^2.

PERIOD OF RECORD.--November 1901 to current year. Records for water year 1902 incomplete; yearly estimate published in WSP 1315-B.

REVISED RECORDS.--WSP 881: 1902-9 (yearly summary only). WSP 1565: 1916-19, 1920-21(M), 1922, 1926-27, 1928-30(M), 1932, 1934, 1936(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 339.20 ft above sea level. Prior to June 16, 1929, nonrecording gage, and June 16, 1929, to Dec. 2, 1941, water-stage recorder at site 1 mi upstream at different datum. Dec. 3, 1941, to Sept. 30, 1959, water-stage recorder at datum 2.00 ft higher. Jan. 30 to Mar. 26, 1969, nonrecording gage at bridge at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or large diversion upstream from station. Low flows affected by upstream gravel mining and irrigation during summer months. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft^3/s, Apr. 3, 1958, gage height, 16.40 ft, datum then in use, from rating curve extended above 12,000 ft^3/s on basis of slope-area measurement at gage height 16.30 ft, maximum gage height, 16.44 ft, Mar. 10, 1995; no flow at times during several years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 4	2000	7,660	8.74	Mar. 10	1315	*27,300	*16.44
Jan. 10	0415	20,200	13.94	Mar. 22	1800	4,470	6.45
Jan. 24	1045	8,470	9.14				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	13	25	626	139	776	452	130	62	e26	13
2	.00	.00	12	27	553	159	729	401	127	62	e25	12
3	.00	.00	11	168	499	348	662	358	127	59	23	11
4	.00	.00	11	1860	447	296	615	342	122	60	22	11
5	.00	.00	12	1440	402	479	579	e335	e120	58	22	9.3
6	.00	.77	21	392	367	440	543	e320	e118	53	20	10
7	.00	1.3	19	803	341	364	523	e301	e116	51	14	9.9
8	.00	3.7	17	611	338	327	494	e285	e114	50	13	9.9
9	.00	4.8	14	2370	327	2920	466	e268	e110	49	13	10
10	.00	7.3	14	10200	288	15800	446	e252	e106	49	13	10
11	.00	16	14	2600	265	7660	417	e240	e104	48	13	11
12	.00	12	14	1470	247	3480	394	e230	e101	48	14	11
13	.00	9.2	19	1050	241	2320	395	e270	e99	48	14	11
14	.00	6.9	38	1510	485	1680	374	e250	e97	48	12	11
15	.00	6.4	58	1770	330	1330	361	e230	e96	47	11	11
16	.00	6.8	56	1300	285	1180	360	e215	e115	47	12	11
17	.00	7.6	30	979	259	1030	e370	e201	e120	44	11	11
18	.00	8.6	25	768	239	897	e355	e190	e100	45	11	11
19	.00	7.6	22	629	223	835	e345	172	e95	42	12	10
20	.00	7.7	20	633	208	849	e335	170	e90	42	e12	10
21	.00	6.9	19	1030	197	919	e328	164	e92	42	e15	9.5
22	.00	6.4	19	1140	186	2120	e320	163	e94	41	15	9.2
23	.00	6.2	18	2100	175	2680	e312	160	96	41	14	11
24	.00	6.8	20	4600	167	1640	e305	159	93	40	13	11
25	.00	7.4	31	2740	161	1620	e300	159	84	37	13	10
26	.00	22	33	1740	153	1440	e295	151	70	36	12	10
27	.00	50	28	1420	148	1290	e365	146	67	34	12	11
28	.00	26	26	1370	144	1150	e400	143	66	32	11	12
29	.00	19	26	1060	---	931	e640	137	63	31	11	12
30	.00	16	25	857	---	857	746	128	63	30	12	13
31	.00	---	24	724	---	829	---	130	---	e28	13	---
TOTAL	0.00	273.37	709	49386	8301	58009	13550	7122	2995	1404	454	322.8
MEAN	.000	9.11	22.9	1593	296	1871	452	230	99.8	45.3	14.6	10.8
MAX	.00	50	58	10200	626	15800	776	452	130	62	26	13
MIN	.00	.00	11	25	144	139	295	128	63	28	11	9.2
AC-FT	.00	542	1410	97960	16470	115100	26880	14130	5940	2780	901	640

e Estimated.

11152000 ARROYO SECO NEAR SOLEDAD, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9.17	54.1	165	389	562	455	254	92.6	38.6	14.4	5.72	4.72
MAX	75.5	650	1161	2425	2611	2344	2043	644	185	90.8	54.5	38.8
(WY)	1905	1927	1956	1914	1938	1983	1958	1983	1983	1983	1983	1978
MIN	.000	.000	2.87	5.95	8.98	18.5	7.82	4.14	.66	.000	.000	.000
(WY)	1914	1991	1991	1991	1991	1977	1977	1977	1924	1924	1913	1913

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1902 - 1995	
ANNUAL TOTAL	14823.22		142526.17			
ANNUAL MEAN	40.6		390		168	
HIGHEST ANNUAL MEAN					709	1983
LOWEST ANNUAL MEAN					6.97	1977
HIGHEST DAILY MEAN	1840	Feb 20	15800	Mar 10	16500	Dec 23 1955
LOWEST DAILY MEAN	.00	Jul 12	.00	Oct 1	.00	Aug 27 1904
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 12	.00	Oct 1	.00	Aug 27 1904
INSTANTANEOUS PEAK FLOW			27300	Mar 10	28300	Apr 3 1958
INSTANTANEOUS PEAK STAGE			16.44	Mar 10	16.44	Mar 10 1995
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Aug 27 1904
ANNUAL RUNOFF (AC-FT)	29400		282700		122000	
10 PERCENT EXCEEDS	69		950		356	
50 PERCENT EXCEEDS	14		59		27	
90 PERCENT EXCEEDS	.00		.46		.00	

11152050 ARROYO SECO BELOW RELIZ CREEK, NEAR SOLEDAD, CA

LOCATION.--Lat 36°23'59", long 121°19'23", in Los Conches Grant, Monterey County, Hydrologic Unit 18060005, on right bank at county road bridge, 1.7 mi south of Soledad, and 7.4 mi downstream from Reliz Creek.

DRAINAGE AREA.--304 mi^2.

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 167.93 ft above sea level (levels by Monterey County).

REMARKS.--Records poor. No regulation or large diversion upstream from station. Low flows affected by upstream gravel mining and irrigation during summer months. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,000 ft^3/s, Mar. 10, 1995, gage height, 9.62 ft, rating affected by backwater from Salinas River. Discharge estimated by routing peak. No flow for many days.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	unknown	e22,000	7.81	Mar. 10	1645	b*31,000	*9.62
Jan. 24	1115	9,770	6.31	Mar. 22	2000	e7,600	5.92

b Peak affected by backwater from Salinas River.

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	e.00	513	46	575	363	e10	.00	.00	.00
2	.00	.00	.00	e.00	415	43	546	291	e6.0	.00	.00	.00
3	.00	.00	.00	e10	337	146	542	241	e6.0	.00	.00	.00
4	.00	.00	.00	e1500	287	148	526	216	e6.0	.00	.00	.00
5	.00	.00	.00	e1500	254	242	487	184	e6.0	.00	.00	.00
6	.00	.00	.00	e500	225	282	434	180	5.8	.00	.00	.00
7	.00	.00	.00	e800	209	213	393	169	5.7	.00	.00	.00
8	.00	.00	.00	e700	201	189	367	151	e3.0	.00	.00	.00
9	.00	.00	.00	e2000	195	2830	343	141	e1.0	.00	.00	.00
10	.00	.00	.00	e12000	159	e17000	330	128	e.00	.00	.00	.00
11	.00	.00	.00	e3000	140	e9000	298	111	e.00	.00	.00	.00
12	.00	.00	.00	e1600	123	e4000	273	102	e.00	.00	.00	.00
13	.00	.00	.00	1060	116	e2800	279	108	e.00	.00	.00	.00
14	.00	.00	.00	1280	328	e2100	270	111	e.00	.00	.00	.00
15	.00	.00	.00	1280	235	e1700	258	102	e.00	.00	.00	.00
16	.00	.00	.00	973	175	1370	265	97	.00	.00	.00	.00
17	.00	.00	.00	761	153	1030	245	81	.00	.00	.00	.00
18	.00	.00	.00	568	129	784	246	70	.00	.00	.00	.00
19	.00	.00	.00	377	125	637	233	70	.00	.00	.00	.00
20	.00	.00	.00	315	111	556	219	70	.00	.00	.00	.00
21	.00	.00	.00	774	99	848	205	e65	.00	.00	.00	.00
22	.00	.00	.00	779	87	2580	190	e60	.00	.00	.00	.00
23	.00	.00	.00	2170	79	e2800	170	e55	.00	.00	.00	.00
24	.00	.00	.00	5930	63	e1850	155	e50	.00	.00	.00	.00
25	.00	.00	.00	3760	64	1770	145	e45	.00	.00	.00	.00
26	.00	.00	.00	2160	57	1370	142	e40	.00	.00	.00	.00
27	.00	.00	.00	1530	48	1040	142	e35	.00	.00	.00	.00
28	.00	.00	.00	1430	45	807	187	e30	.00	.00	.00	.00
29	.00	.00	.00	1010	---	762	195	e25	.00	.00	.00	.00
30	.00	.00	.00	780	---	701	845	e20	.00	.00	.00	.00
31	.00	---	.00	623	---	624	---	e15	---	.00	.00	---
TOTAL	0.00	0.00	0.00	51170.00	4972	60268	9505	3426	49.50	0.00	0.00	0.00
MEAN	.000	.000	.000	1651	178	1944	317	111	1.65	.000	.000	.000
MAX	.00	.00	.00	12000	513	17000	845	363	10	.00	.00	.00
MIN	.00	.00	.00	.00	45	43	142	15	.00	.00	.00	.00
AC-FT	.00	.00	.00	101500	9860	119500	18850	6800	98	.00	.00	.00

e Estimated.

11152050 ARROYO SECO BELOW RELIZ CREEK, NEAR SOLEDAD, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.000	.000	.000	1651	178	1944	317	111	1.65	.000	.000	.000
MAX	.000	.000	.000	1651	178	1944	317	111	1.65	.000	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.000	.000	.000	1651	178	1944	317	111	1.65	.000	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS FOR 1995 WATER YEAR

ANNUAL TOTAL	129390.50	
ANNUAL MEAN	354	
HIGHEST DAILY MEAN	17000	Mar 10
LOWEST DAILY MEAN	.00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1
INSTANTANEOUS PEAK FLOW	31000	Mar 10
INSTANTANEOUS PEAK STAGE	9.62	Mar 10
ANNUAL RUNOFF (AC-FT)	256600	
10 PERCENT EXCEEDS	790	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	

11152300 SALINAS RIVER NEAR CHUALAR, CA

LOCATION.--Lat 36°33'20", long 121°32'55", in Guadalupe y Llanitos de Los Correos Grant, Monterey County, Hydrologic Unit 18060005, near left bank on upstream side of bridge on Chualar-River Road and 2 mi southwest of Chualar.

DRAINAGE AREA.--4,042 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REVISED RECORDS.--WDR CA-85-2: 1983-84(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 68.00 ft above sea level. Prior to January 1979, nonrecording gage at same site and datum. Prior to Aug. 19, 1991, at site 0.2 mi upstream at same datum.

REMARKS.--Records poor. Daily discharges prior to January 1979 determined by discharge measurements at this site correlated to streamflow for Salinas River at Soledad (station 11151700) and Salinas River near Spreckels (station 11152500). Flow regulated by Santa Margarita Lake beginning in December 1941, usable capacity, 23,000 acre-ft; Lake Nacimiento (formerly Nacimiento Reservoir) beginning in February 1957, usable capacity, 340,000 acre-ft; and Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Large withdrawals from ground water and small surface-water diversions for municipal use and for irrigation upstream from station. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,000 ft^3/s, estimated, Mar. 11, 1995, gage height, 19.70 ft, from rating curve extended above 18,000 ft^3/s; peak flow includes an estimate of 8,800 ft^3/s bypassing the gage; no flow at times during most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 92,000 ft^3/s, Mar. 11, gage height, 19.70 ft; no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	55	e3.4	28	1780	419	e2900	874	70	.00	63	.00
2	100	54	2.4	29	1500	402	e2700	665	62	.00	60	.00
3	106	51	1.1	41	1300	402	e2500	584	53	.00	37	.00
4	120	49	.30	51	1140	446	e2250	e530	e46	e4.6	7.3	.00
5	120	49	.16	2010	1020	475	e2050	e480	e44	26	e.30	.00
6	126	54	.00	945	928	910	e1900	e440	e42	33	e.00	.00
7	127	62	.00	306	850	1130	e1750	e420	e40	23	e.00	.00
8	109	66	.00	823	794	1150	e1630	e400	28	22	.00	.00
9	103	71	.00	459	747	1170	e1500	e380	e19	17	.00	.00
10	93	79	.00	4640	690	8560	e1420	e350	e16	15	.00	.00
11	84	80	.00	5390	648	e28000	e1310	e320	e14	33	.00	.00
12	75	77	.00	5870	613	e68000	e1200	e290	e13	44	.00	.00
13	70	71	.00	2900	580	e25000	e1150	e290	e11	49	.00	.00
14	67	65	.00	2100	620	e18000	e1100	e300	e10	57	.00	.00
15	66	64	.00	2460	715	e16000	e1010	e290	e10	67	.00	.00
16	66	61	.00	2430	978	e12000	e990	259	e11	72	.00	89
17	67	56	.00	2080	949	e9800	e950	236	5.7	78	.00	164
18	66	51	.00	1560	825	e7500	e930	213	1.6	100	.00	229
19	62	43	.00	1190	736	e4200	e900	196	e.50	101	.00	227
20	55	e40	.00	951	670	e3300	e850	181	e.10	100	.00	205
21	46	e39	.04	1140	612	e3200	e800	170	e.00	105	.00	151
22	46	37	4.0	1060	565	4370	e750	165	.00	107	.00	144
23	47	33	7.6	1700	524	11600	e700	159	.00	104	.00	154
24	49	31	11	3700	492	e16000	e620	148	.00	109	.00	160
25	49	35	14	7840	464	11200	e550	137	.00	118	.00	161
26	48	34	15	10700	469	8220	516	121	.00	120	.00	159
27	48	e23	17	7370	451	7920	500	108	.00	102	.00	152
28	48	e15	18	4780	434	e6200	498	96	.00	83	.00	129
29	46	e9.0	19	3500	---	e4100	498	88	.00	70	.00	115
30	46	e5.6	22	2720	---	e3630	918	81	.00	65	.00	96
31	50	---	23	2170	---	e3220	---	72	---	65	.00	---
TOTAL	2320	1459.6	158.00	82943	22094	286524	37340	9043	496.90	1889.60	167.60	2335.00
MEAN	74.8	48.7	5.10	2676	789	9243	1245	292	16.6	61.0	5.41	77.8
MAX	127	80	23	10700	1780	68000	2900	874	70	120	63	229
MIN	46	5.6	.00	28	434	402	498	72	.00	.00	.00	.00
AC-FT	4600	2900	313	164500	43820	568300	74060	17940	986	3750	332	4630

e Estimated.

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	58.7	71.6	288	978	1572	1828	473	193	63.4	55.7	56.7	80.7
MAX	286	474	2757	5000	7804	10690	2793	2418	767	462	381	425
(WY)	1983	1983	1983	1983	1983	1983	1982	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1990	1981	1990	1990	1989	1977	1989	1990	1990	1990	1990	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1977 - 1995	
ANNUAL TOTAL	19197.90		446770.70			
ANNUAL MEAN	52.6		1224		472	
HIGHEST ANNUAL MEAN					2796	1983
LOWEST ANNUAL MEAN					.000	1990
HIGHEST DAILY MEAN	930	Feb 20	68000	Mar 12	68000	Mar 12 1995
LOWEST DAILY MEAN	.00	Mar 11	.00	Dec 6	.00	Jan 27 1977
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 11	.00	Dec 6	.00	Feb 3 1977
INSTANTANEOUS PEAK FLOW			e92000	Mar 11	e92000	Mar 11 1995
INSTANTANEOUS PEAK STAGE			19.70	Mar 11	19.70	Mar 11 1995
ANNUAL RUNOFF (AC-FT)	38080		886200		341600	
10 PERCENT EXCEEDS	121		2480		744	
50 PERCENT EXCEEDS	36		81		37	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated.

11152500 SALINAS RIVER NEAR SPRECKELS, CA

OCATION.--Lat 36°37'52", long 121°40'17", in Nacional Grant, Monterey County, Hydrologic Unit 18060005, on right bank on downstream side of bridge on Salinas-Monterey Highway, 0.8 mi upstream from El Toro Creek, 1.6 mi northwest of Spreckels, and 2 mi south of Salinas.
RAINAGE AREA.--4,156 mi^2.

ERIOD OF RECORD.--January 1900 to August 1901, October 1929 to current year. Records for water year 1930 incomplete; yearly estimate published in WSP 1315-B. Published as "near Salinas" 1900-01.
CHEMICAL DATA: Water years 1952-54, 1958-70, 1972-79. Published incorrectly as station 11152300 "near Chualar" in 1967.
BIOLOGICAL DATA: Water years 1975-77.
SPECIFIC CONDUCTANCE: Water years 1975 to January 1977, daily.
WATER TEMPERATURE: Water years 1967-79, daily. Published incorrectly as station 11152300 "near Chualar" in 1967-69.
SEDIMENT DATA: Water years 1950-51; 1967-79, daily; 1986, monthly; August 1990. Published incorrectly as station 11152300 "near Chualar" in 1967-69.
TURBIDITY: Water year 1973.

EVISED RECORDS.--WSP 1565: 1930, 1935, 1945. WSP 1715: 1959. WSP 1929: Drainage area. WDR CA-85-2: 1983.

AGE.--Water-stage recorder and crest-stage gage. Datum of gage is 20.56 ft above sea level. 1900-01, May 10 to July 29, 1940, nonrecording gages at site 0.3 mi downstream at different datum. July 29, 1940, to May 22, 1969, water-stage recorder at site 0.3 mi downstream at datum 0.69 ft lower. May 23, 1969, to Jan. 13, 1970, nonrecording gage at same site and datum. Mar. 17, 1941, to June 30, 1961, supplementary nonrecording gages.

EMARKS.--Records poor. Flow regulated by Santa Margarita Lake (formerly Salinas Reservoir) beginning in 1941, usable capacity, 23,000 acre-ft; Lake Nacimiento (formerly Nacimiento Reservoir) beginning in February 1957, usable capacity, 340,000 acre-ft; and by Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Large withdrawals from ground water and small surface-water diversions for municipal use and for irrigation upstream from station. See schematic diagram of Salinas River basin.

XTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,000 ft^3/s, Mar. 12, 1995, gage height, 30.29 ft, from rating extended above 30,000 ft^3/s, peak includes estimate of 9,800 ft^3/s bypassing gage; no flow at times in 1929-40, many days in 1990-95.

XTREMES FOR CURRENT YEAR.--Maximum discharge, 95,000 ft^3/s, Mar. 12, gage height, 30.29 ft; no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

AY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	1710	409	2890	1070	40	e.00	e.00	e.00
2	.00	.00	.00	.00	1460	397	2590	852	33	e.00	e.00	e.00
3	.00	.00	.00	.00	1280	385	2340	750	e23	e.00	e.00	e.00
4	.00	.00	.00	.00	1130	437	2140	661	e17	e.00	e.00	e.00
5	.00	.00	.00	.00	1020	467	1970	593	e15	e.00	e.00	e.00
6	.00	.00	.00	392	928	721	1850	549	e13	e.00	e.00	e.00
7	.00	.00	.00	159	854	988	1730	489	e11	e.00	e.00	e.00
8	.00	.00	.00	109	795	1150	1620	441	e8.0	e.00	e.00	e.00
9	.00	.00	.00	249	751	1100	1520	406	e2.0	e.00	e.00	e.00
10	.00	.00	.00	1340	702	5800	1450	362	e1.0	e.00	e.00	e.00
11	.00	.00	.00	5050	654	23500	1380	318	e.50	e.00	e.00	e.00
12	.00	.00	.00	4900	627	e64000	1290	285	e.35	e.00	e.00	e.00
13	.00	.00	.00	3770	597	34200	1250	275	e.20	e.00	e.00	e.00
14	.00	.00	.00	2140	580	17800	1200	274	e.00	e.00	e.00	e.00
15	.00	.00	.00	2510	705	12700	1160	271	e.00	e.00	e.00	e.00
16	.00	.00	.00	2520	872	10900	1120	262	e.00	e.00	e.00	e.00
17	.00	.00	.00	2400	984	9440	1090	236	e.00	e.00	e.00	e.00
18	.00	.00	.00	1800	866	7630	1040	198	e.00	e.00	e.00	e.00
19	.00	.00	.00	1390	766	4430	1000	169	e.00	e.00	e.00	e.00
20	.00	.00	.00	1060	694	3570	963	153	e.00	e.00	e.00	e.00
21	.00	.00	.00	1090	635	3330	917	137	e.00	e.00	e.00	19
22	.00	.00	.00	1310	585	3190	871	128	e.00	e.00	e.00	17
23	.00	.00	.00	1530	543	8540	831	126	e.00	e.00	e.00	19
24	.00	.00	.00	3030	510	15400	791	115	e.00	2.0	e.00	27
25	.00	.00	.00	7030	486	9170	743	106	e.00	34	e.00	35
26	.00	.00	.00	11200	461	8280	691	93	e.00	45	e.00	36
27	.00	.00	.00	9420	441	7820	654	81	e.00	43	e.00	38
28	.00	.00	.00	4930	424	6450	618	69	e.00	e24	e.00	37
29	.00	.00	.00	3380	---	4250	646	62	e.00	e14	e.00	34
30	.00	.00	.00	2550	---	3650	705	56	e.00	e5.0	e.00	14
31	.00	---	.00	2050	---	3230	---	48	---	e1.0	e.00	---
OTAL	0.00	0.00	0.00	77309.00	22060	273334	39060	9635	164.05	168.00	0.00	276.00
EAN	.000	.000	.000	2494	788	8817	1302	311	5.47	5.42	.000	9.20
AX	.00	.00	.00	11200	1710	64000	2890	1070	40	45	.00	38
IN	.00	.00	.00	.00	424	385	618	48	.00	.00	.00	.00
C-FT	.00	.00	.00	153300	43760	542200	77480	19110	325	333	.00	547

e Estimated.

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1940, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.24	5.04	378	491	3003	1656	520	75.7	7.80	1.53	.81	1.82
MAX	12.0	12.0	3215	1742	11940	9543	2019	340	49.3	9.00	5.00	6.10
(WY)	1939	1939	1932	1940	1938	1938	1935	1938	1938	1938	1938	1932
MIN	.000	.000	.000	6.33	9.23	3.86	.70	.10	.10	.000	.000	.000
(WY)	1940	1940	1940	1931	1931	1931	1931	1931	1931	1931	1931	1931

SUMMARY STATISTICS	WATER YEARS 1930 - 1940	
ANNUAL TOTAL		
ANNUAL MEAN	497	
HIGHEST ANNUAL MEAN	1931	1938
LOWEST ANNUAL MEAN	2.66	1931
HIGHEST DAILY MEAN	69900	Feb 12 1938
LOWEST DAILY MEAN	.00	Jul 1 1931
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 1 1931
INSTANTANEOUS PEAK FLOW	75000	Feb 12 1938
INSTANTANEOUS PEAK STAGE	25.00	Feb 12 1938
ANNUAL RUNOFF (AC-FT)	360400	
10 PERCENT EXCEEDS	727	
50 PERCENT EXCEEDS	4.7	
90 PERCENT EXCEEDS	.00	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	26.6	33.3	215	872	1282	1288	507	121	33.1	19.3	20.8	31.8
MAX	402	389	2511	5959	9862	12640	6714	2839	767	403	354	394
(WY)	1970	1983	1983	1969	1969	1983	1958	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1991	1991	1991	1991	1990	1990	1990	1990	1990	1990	1990	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1942 - 1995	
ANNUAL TOTAL	2927.78		422006.05			
ANNUAL MEAN	8.02		1156		366	
HIGHEST ANNUAL MEAN					2997	1983
LOWEST ANNUAL MEAN					.81	1990
HIGHEST DAILY MEAN	865	Feb 21	64000	Mar 12	64800	Feb 26 1969
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jan 31 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Jan 31 1990
INSTANTANEOUS PEAK FLOW			e95000	Mar 12	e95000	Mar 12 1995
INSTANTANEOUS PEAK STAGE			30.29	Mar 12	30.29	Mar 12 1995
ANNUAL RUNOFF (AC-FT)	5810		837000		265500	
10 PERCENT EXCEEDS	.00		2440		560	
50 PERCENT EXCEEDS	.00		.00		3.1	
90 PERCENT EXCEEDS	.00		.00		.50	

e Estimated.

11152540 EL TORO CREEK NEAR SPRECKELS, CA

LOCATION.--Lat 36°35'00", long 121°42'50", in El Toro Grant, Monterey County, Hydrologic Unit 18060005, on right bank 0.3 mi downstream from San Benancio Gulch and 4.7 mi southwest of Spreckels.

DRAINAGE AREA.--31.9 mi^2.

PERIOD OF RECORD.--October 1961 to current year.
SEDIMENT DATA: Water years 1986, 1990.

GAGE.--Water-stage recorder, concrete weir control since Oct. 1, 1992, and crest-stage gage. Elevation of gage is 210 ft above sea level, from topographic map. Prior to Sept. 16, 1983, gage was at site 700 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station except for small stock ponds. Low flow at times affected by irrigation runoff from upstream golf course. See schematic diagram of Salinas River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft^3/s, Mar. 10, 1995, gage height, 7.08 ft, from rating curve extended above 240 ft^3/s on basis of slope-area measurement of peak flow; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	1900	280	4.29	Mar. 10	1200	*664	*7.08
Jan. 15	1115	134	3.09	Mar. 23	0145	324	4.64
Jan. 24	0945	240	3.98				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.07	.20	7.2	.38	6.6	.54	.21	.13	.10	.10
2	.02	.00	.07	.13	5.5	.41	5.7	.41	.21	.13	.11	.09
3	.02	.00	.07	1.0	4.1	.55	4.2	.36	.21	.14	.13	.08
4	.01	.00	.14	3.3	3.0	1.3	3.5	.38	.21	.15	.14	.07
5	.01	.00	.10	3.1	2.4	1.1	2.9	.43	.23	.14	.10	.08
6	.01	.00	.09	.39	1.8	.61	2.4	.48	.20	.13	.10	.08
7	.00	.03	.09	2.4	2.0	.51	2.0	.36	.17	.13	.15	.08
8	.00	.01	.09	.33	1.4	.49	1.9	.32	.15	.10	.13	.11
9	.00	.29	.09	11	1.4	39	1.5	.31	.15	.09	.16	.10
10	.00	.06	.11	136	.58	310	1.2	.33	.15	.10	.16	.09
11	.00	.04	.12	42	.45	146	1.1	.35	.16	.11	.17	.07
12	.00	.03	1.1	13	.38	61	.94	.37	.18	.12	.14	.07
13	.00	.02	.49	5.7	1.8	34	1.6	1.1	.18	.11	.11	.08
14	.00	.01	.38	9.3	4.6	24	1.1	1.1	.21	.10	.10	.10
15	.00	.16	.22	63	1.2	19	2.0	4.6	.27	.09	.12	.10
16	.00	.07	.14	58	.64	15	1.7	1.2	1.8	.09	.11	.08
17	.00	.12	.13	21	.49	11	.87	.42	.23	.11	.10	.09
18	.00	.07	.13	12	.44	8.4	.73	.27	.17	.12	.10	.06
19	.00	.04	.11	8.3	.45	6.9	.61	.23	.16	.19	.08	.07
20	.00	.04	.11	16	.44	9.5	.66	.22	.17	.14	.07	.06
21	.00	.04	.14	14	.38	27	.51	.21	.15	.13	.08	.06
22	.00	.04	.11	10	.38	62	.51	.21	.15	.11	.09	.09
23	.00	.04	.11	13	.38	149	.49	.21	.17	.11	.07	.07
24	.00	.04	.47	107	.39	64	.59	.21	.14	.11	.07	.07
25	.00	.29	.15	73	.38	35	.55	.21	.13	.11	.10	.08
26	.00	.44	.13	29	.38	25	.57	.21	.13	.10	.10	.10
27	.00	.11	.11	26	.39	19	.65	.23	.13	.10	.09	.09
28	.00	.09	.20	21	.38	16	.58	.21	.15	.10	.09	.08
29	.00	.09	.13	15	---	12	1.8	.21	.15	.09	.09	.07
30	.00	.07	.11	11	---	9.7	.72	.21	.16	.09	.08	.07
31	.00	---	.11	9.1	---	7.9	---	.21	---	.09	.09	---
TOTAL	0.08	2.24	5.62	734.25	43.33	1115.75	50.18	16.11	6.88	3.56	3.33	2.44
MEAN	.003	.075	.18	23.7	1.55	36.0	1.67	.52	.23	.11	.11	.081
MAX	.02	.44	1.1	136	7.2	310	6.6	4.6	1.8	.19	.17	.11
MIN	.00	.00	.07	.13	.38	.38	.49	.21	.13	.09	.07	.06
AC-FT	.2	4.4	11	1460	86	2210	100	32	14	7.1	6.6	4.8

11152540 EL TORO CREEK NEAR SPRECKELS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.11	.24	.64	4.48	7.02	6.74	2.22	.34	.11	.071	.048	.046
MAX	1.52	2.23	7.08	27.4	77.8	62.2	14.8	5.18	.63	.49	.28	.22
(WY)	1980	1983	1983	1969	1969	1983	1982	1983	1983	1969	1983	1983
MIN	.000	.000	.000	.000	.000	.058	.022	.000	.000	.000	.000	.000
(WY)	1965	1989	1990	1991	1991	1966	1990	1966	1966	1965	1962	1964

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	93.90		1983.77			
ANNUAL MEAN	.26		5.43		1.81	
HIGHEST ANNUAL MEAN					11.3	1983
LOWEST ANNUAL MEAN					.034	1990
HIGHEST DAILY MEAN	22	Feb 20	310	Mar 10	390	Mar 2 1983
LOWEST DAILY MEAN	.00	Jul 2	.00	Oct 7	.00	Oct 1 1961
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 3	.00	Oct 7	.00	Oct 6 1961
INSTANTANEOUS PEAK FLOW			664	Mar 10	664	Mar 10 1995
INSTANTANEOUS PEAK STAGE			7.08	Mar 10	7.08	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	186		3930		1310	
10 PERCENT EXCEEDS	.23		10		1.2	
50 PERCENT EXCEEDS	.07		.16		.10	
90 PERCENT EXCEEDS	.00		.01		.00	

11152600 GABILAN CREEK NEAR SALINAS, CA

LOCATION.--Lat 36°45'21", long 121°36'34", in La Natividad Grant, Monterey County, Hydrologic Unit 18060011, on left bank at downstream side of county road bridge, 0.3 mi downstream from small left-bank tributary, and 6.2 mi northeast of Salinas.

DRAINAGE AREA.--36.7 mi^2.

PERIOD OF RECORD.--October 1970 to current year. January 1959 to September 1970 in reports of Monterey County Water Resources Agency.

REVISED RECORDS.--WDR CA-84-2: 1974(M), 1978(P), 1980-83(P).

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Oct. 9, 1975. Elevation of gage is 200 ft above sea level, from topographic map. Prior to Oct. 9, 1975, on right bank at different datum.

REMARKS.--Records fair except discharges greater than 200 ft^3/s or less than 1 ft^3/s, which are poor. Natural flow of stream affected by small diversions, storage reservoirs, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 898 ft^3/s, Apr. 1, 1974, gage height, 11.13 ft, at datum then in use, from rating curve extended above 260 ft^3/s on basis of slope-area measurement of peak flow; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	1730	278	3.25	Mar. 10	1645	*659	*4.33
Jan. 15	0730	80	2.72	Mar. 23	0345	355	3.45
Jan. 24	1400	107	2.82				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e.00	.00	.00	8.3	.00	14	11	.00	.00	.00	.00
2	.00	e.00	.00	.00	5.8	.00	13	8.3	.00	.00	.02	.00
3	.00	e.00	.00	.00	4.5	.00	11	6.5	.00	.09	.05	.00
4	.00	e.00	.00	5.0	3.7	.00	9.3	5.6	.00	.00	.04	.00
5	.00	e.00	.00	1.2	2.7	.00	9.0	5.2	.00	.05	.04	.00
6	.00	e.00	.00	.00	1.1	.00	9.5	4.3	.00	.01	.03	.00
7	.00	e.00	.00	3.3	.00	.00	8.9	3.8	.00	.00	.02	.00
8	.00	e.00	.00	.00	.00	.00	8.7	3.2	.00	.00	.02	.00
9	.00	e.00	.00	19	e2.5	20	8.1	1.6	e.20	.00	.01	.00
10	.00	.00	.00	70	3.5	377	7.1	.57	.29	.03	.02	.00
11	e.00	.00	.00	22	2.1	234	6.3	.74	.14	.01	.01	.00
12	e.00	.00	.00	10	.57	94	5.9	.13	.11	.01	.01	.00
13	e.00	.00	.00	5.0	4.8	48	6.3	.01	.11	.00	.01	.00
14	e.00	.00	.00	24	1.3	35	2.7	.44	.15	.00	.00	.00
15	e.00	.00	.00	44	.00	29	.99	1.4	.31	.00	.00	.00
16	e.00	.00	.00	44	.00	24	.34	.42	1.5	.00	.00	.00
17	e.00	.00	.00	23	.00	19	.14	.04	.55	.00	.00	.00
18	e.00	.00	.00	13	.02	17	.11	.00	.26	.00	.00	.00
19	e.00	.00	.00	8.8	.00	14	.57	.00	.15	.00	.00	.00
20	e.00	.00	.00	7.2	.00	19	4.2	.00	.04	.00	.00	.00
21	e.00	.00	.00	7.0	.00	42	4.5	.00	.03	.00	.00	.00
22	e.00	.00	.00	5.0	.00	47	3.9	.00	.01	.00	.00	.00
23	e.00	.00	.00	5.0	.00	192	2.5	.00	.02	.06	.00	.00
24	e.00	.00	.00	55	.00	64	2.4	.00	.01	.03	.00	.00
25	e.00	.00	.00	41	.00	43	1.7	.00	.01	.00	.00	.00
26	e.00	.01	.00	24	.00	34	.75	.00	.00	.00	.00	.00
27	e.00	.00	.00	39	.00	28	2.3	.00	.02	.00	.00	.00
28	e.00	.00	.00	34	.00	24	3.2	.00	.00	.00	.00	.00
29	e.00	.00	.00	20	---	21	9.1	.00	.04	.00	.00	.00
30	e.00	.00	.00	15	---	18	16	.00	.00	.02	.00	.00
31	e.00	---	.00	11	---	16	---	.00	---	.08	.00	---
TOTAL	0.00	0.01	0.00	555.50	40.89	1460.00	172.50	53.25	3.95	0.39	0.28	0.00
MEAN	.000	.000	.000	17.9	1.46	47.1	5.75	1.72	.13	.013	.009	.000
MAX	.00	.01	.00	70	8.3	377	16	11	1.5	.09	.05	.00
MIN	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00
AC-FT	.00	.02	.00	1100	81	2900	342	106	7.8	.8	.6	.00

e Estimated.

11152600 GABILAN CREEK NEAR SALINAS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.039	.48	2.21	7.24	11.0	14.8	8.04	2.09	.83	.27	.12	.030
MAX	.50	6.20	20.0	35.1	88.6	124	58.7	23.4	9.27	5.14	2.85	.58
(WY)	1984	1983	1983	1983	1983	1983	1974	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1971	1971	1972	1972	1972	1972	1972	1971	1971	1971	1971	1971

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1971 - 1995	
ANNUAL TOTAL	24.91		2286.77			
ANNUAL MEAN	.068		6.27		3.89	
HIGHEST ANNUAL MEAN					29.7	1983
LOWEST ANNUAL MEAN					.000	1972
HIGHEST DAILY MEAN	6.5	Feb 19	377	Mar 10	377	Mar 10 1995
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1970
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1970
INSTANTANEOUS PEAK FLOW			659	Mar 10	898	Apr 1 1974
INSTANTANEOUS PEAK STAGE			4.33	Mar 10	11.13	Apr 1 1974
ANNUAL RUNOFF (AC-FT)	49		4540		2820	
10 PERCENT EXCEEDS	.00		15		7.0	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

11154700 CLEAR CREEK NEAR IDRIA, CA

LOCATION.--Lat 36°21'53", long 120°45'19", in SE 1/4 sec.15, T.18 S., R.11 E., San Benito County, Hydrologic Unit 18060002, on right bank in Clear Creek Management Area, 1.7 mi upstream from San Benito River, and 5.8 mi southwest of Idria.

DRAINAGE AREA.--14.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1993 to current year.
GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,600 ft above sea level, from topographic map.
REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft^3/s, Mar. 10, 1995, gage height, 6.75 ft, from rating curve extended above 18 ft^3/s on basis of slope-area measurements at gage heights of 4.44 ft and 6.75 ft; minimum daily, 0.07 ft^3/s, Sept. 7, 8, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 4	1115	42	2.66	Jan. 24	1230	246	4.14
Jan. 10	1800	306	4.44	Mar. 10	1515	*1,100	*6.75

Minimum daily, 0.12 ft^3/s, Oct. 2, 3.

REVISIONS.--Revised daily values for 1994 water year are given below. These figures supersede those published in the report for 1994.

Sept. 13,	0.13	Sept. 16,	0.10	Sept. 19,	0.11	Sept. 22,	0.09	Sept. 25,	0.13	Sept. 28,	0.15
14,	.11	17,	.11	20,	.10	23,	.18	26,	.11	29,	.21
15,	.10	18,	.10	21,	.10	24,	.16	27,	.10	30,	.15

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.19	.36	.46	16	6.0	30	13	8.5	e5.4	2.8	1.7
2	.12	.20	.36	.45	15	7.1	29	13	8.3	e5.2	2.8	1.7
3	.12	.20	.37	2.0	14	12	28	13	8.2	e5.0	2.7	1.6
4	.52	.21	.41	17	13	12	28	12	8.1	e4.9	2.6	1.6
5	1.2	.22	.39	7.7	12	18	27	12	7.9	e4.8	2.6	1.6
6	.29	.23	.37	3.5	12	14	26	12	7.8	e4.7	2.6	1.6
7	.20	.37	.38	9.7	12	12	25	12	8.0	e4.6	2.5	1.6
8	.17	.34	.36	5.4	12	12	24	12	7.7	e4.5	2.5	1.6
9	.16	.44	.30	18	11	54	23	11	7.5	e4.5	2.4	1.6
10	.14	.72	.38	97	11	464	22	11	7.5	e4.5	2.4	1.6
11	.15	.33	.36	32	10	e74	21	11	7.4	e4.4	2.4	1.6
12	.16	.30	.46	17	10	e53	20	11	7.3	e4.4	2.4	1.5
13	.18	.35	.56	14	11	e60	21	12	7.1	e4.3	2.4	1.5
14	.19	.25	.52	19	14	e72	19	11	7.3	4.2	2.4	1.5
15	.20	.39	.52	19	10	e43	19	11	e9.8	4.1	2.4	1.4
16	.18	.58	.42	14	9.5	e45	19	11	e12	3.9	2.4	1.4
17	.19	.51	.41	16	8.9	e40	18	11	e11	4.6	2.4	1.4
18	.18	.47	.41	19	8.6	e38	18	11	e9.0	4.6	2.4	1.4
19	.19	.33	.39	16	8.2	e30	17	10	e8.4	4.0	2.3	1.4
20	.19	.28	.38	18	7.9	e25	17	10	e7.9	3.9	2.2	1.4
21	.19	.30	.37	19	7.7	e22	16	10	e7.5	3.8	2.0	1.3
22	.19	.28	.37	21	7.3	e35	15	9.9	e7.1	3.7	2.0	1.3
23	.19	.28	.37	39	7.0	e100	15	9.9	e6.8	3.6	2.0	1.3
24	.19	.28	.66	128	6.7	e50	15	9.8	e6.5	3.5	1.9	1.3
25	.19	.44	.60	64	6.4	e40	14	9.5	e6.3	3.4	1.9	1.3
26	.20	.72	.48	34	6.1	e35	14	9.3	e6.0	3.3	1.9	1.3
27	.20	.48	.46	27	5.9	31	14	9.2	e5.9	3.2	1.9	1.3
28	.20	.47	.48	26	5.8	32	14	9.0	e5.8	3.1	1.8	1.4
29	.20	.39	.46	23	---	32	14	8.9	e5.7	3.0	1.8	1.4
30	.19	.37	.45	18	---	31	14	8.7	e5.6	3.0	1.7	1.4
31	.18	---	.45	17	---	31	---	8.6	---	2.9	1.7	---
TOTAL	6.98	10.92	13.26	761.21	279.0	1530.1	596	332.8	229.9	127.0	70.2	44.0
MEAN	.23	.36	.43	24.6	9.96	49.4	19.9	10.7	7.66	4.10	2.26	1.47
MAX	1.2	.72	.66	128	16	464	30	13	12	5.4	2.8	1.7
MIN	.12	.19	.30	.45	5.8	6.0	14	8.6	5.6	2.9	1.7	1.3
AC-FT	14	22	26	1510	553	3030	1180	660	456	252	139	87

e Estimated.

11154700 CLEAR CREEK NEAR IDRIA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.64	.71	.84	12.9	6.42	25.6	10.6	5.93	4.14	2.18	1.18	.79
MAX	1.06	1.05	1.25	24.6	9.96	49.4	19.9	10.7	7.66	4.10	2.26	1.47
(WY)	1994	1994	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.23	.36	.43	1.25	2.87	1.79	1.35	1.11	.62	.27	.10	.11
(WY)	1995	1995	1995	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1994 - 1995	
ANNUAL TOTAL	314.17		4001.37			
ANNUAL MEAN	.86		11.0		6.01	
HIGHEST ANNUAL MEAN					11.0	1995
LOWEST ANNUAL MEAN					1.06	1994
HIGHEST DAILY MEAN	9.4	Feb 20	464	Mar 10	464	Mar 10 1995
LOWEST DAILY MEAN	.07	Sep 7	.12	Oct 2	.07	Sep 7 1994
ANNUAL SEVEN-DAY MINIMUM	.08	Sep 2	.16	Oct 8	.08	Sep 2 1994
INSTANTANEOUS PEAK FLOW			1100	Mar 10	1100	Mar 10 1995
INSTANTANEOUS PEAK STAGE			6.75	Mar 10	6.75	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	623		7940		4350	
10 PERCENT EXCEEDS	1.8		25		14	
50 PERCENT EXCEEDS	.52		4.7		1.3	
90 PERCENT EXCEEDS	.10		.28		.18	

11154700 CLEAR CREEK NEAR IDRIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to Current year.
CHEMICAL DATA: November 1993 to July 1995.
WATER TEMPERATURE: October 1993 to September 1994.
SEDIMENT DATA: November 1993 to July 1995.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1993 to September 1994.

REMARKS.--Zero bedload discharge observed for flows less than 5.6 ft^3/s during current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 35.5°C, Aug. 13-15, 1994; minimum recorded, 0.0°C, several days during water year 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV										
02...	1335	0.20	1130	8.8	15.5	0.20	691	710	15	2.6
DEC										
07...	1030	0.41	1080	8.9	4.0	0.60	702	660	0	2.3
JAN										
09...	1300	15	667	8.8	11.5	360	692	--	--	--
MAR										
01...	1200	6.0	980	9.0	11.0	0.50	693	540	0	2.2
22...	1200	24	852	8.9	11.0	210	660	--	--	--
APR										
17...	1230	18	1020	9.0	10.0	1.0	696	670	36	3.5
MAY										
10...	1125	12	1060	8.9	15.5	5.8	697	670	0	3.4
JUN										
29...	1120	5.6	1130	8.8	21.0	0.20	694	670	0	3.3
JUL										
13...	1045	4.9	1120	9.0	17.0	0.20	695	670	0	3.3

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
02...	170	18	5	0.3	1.3	669	86	692	6.9	30
DEC										
07...	160	17	5	0.3	1.4	708	66	689	6.8	30
JAN										
09...	--	--	--	--	--	400	40	395	--	--
MAR										
01...	130	7.5	3	0.1	0.90	597	72	609	5.2	16
22...	--	--	--	--	--	486	70	514	--	--
APR										
17...	160	6.6	2	0.1	0.90	644	62	630	8.1	13
MAY										
10...	160	7.0	2	0.1	1.0	680	72	677	6.3	15
JUN										
29...	160	7.9	3	0.1	1.1	704	73	699	6.8	17
JUL										
13...	160	8.9	3	0.1	1.0	700	62	677	6.6	18

11154700 CLEAR CREEK NEAR IDRIA, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)
NOV										
02...	<0.10	2.1	664	646	0.90	<10	79	<3	3	20
DEC										
07...	<0.10	1.7	628	633	0.85	<10	65	<3	3	16
JAN										
09...	--	--	361	--	--	--	--	--	--	--
MAR										
01...	<0.10	3.3	554	531	0.75	<10	58	<3	<3	9
22...	--	--	476	--	--	--	--	--	--	--
APR										
17...	0.10	6.4	592	577	0.81	<10	64	<3	<3	9
MAY										
10...	<0.10	5.4	608	605	0.83	<10	64	<3	<3	11
JUN										
29...	<0.10	4.5	646	620	0.88	<10	74	<3	<3	17
JUL										
13...	<0.10	4.5	652	609	0.89	30	73	<3	<3	17

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
NOV										
02...	1	--	--	--	<10	2	<1	<1.0	50	<6
DEC										
07...	<1	--	--	--	<10	1	<1	<1.0	40	<6
JAN										
09...	--	1.5	<0.1	0.47	--	--	--	--	--	--
MAR										
01...	<1	--	--	--	30	2	<1	<1.0	33	<6
22...	--	0.80	<0.1	0.28	--	--	--	--	--	--
APR										
17...	<1	--	--	--	<10	3	<1	<1.0	52	<6
MAY										
10...	<1	--	--	--	20	4	<1	<1.0	51	<6
JUN										
29...	1	--	--	--	<10	2	<1	<1.0	51	<6
JUL										
13...	<1	--	--	--	<10	2	<1	<1.0	49	<6

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
02...	1340	0.20	15.5	0	0.0	--
DEC						
07...	1125	0.36	5.0	6	0.01	--
JAN						
09...	1250	15	10.5	1190	48	80
12...	1420	17	11.0	692	32	72
MAR						
01...	1240	6.0	11.0	6	0.10	--
14...	1140	85	13.0	2360	542	51
22...	1110	22	11.0	1460	87	34
APR						
17...	1200	18	10.0	12	0.58	--
JUN						
29...	1150	5.6	22.5	4	0.06	96
JUL						
13...	1145	4.9	17.0	3	0.04	76

11154700 CLEAR CREEK NEAR IDRIA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	NUMBER OF SAMPLING POINTS (COUNT)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
NOV								
02...	1355	1	0.20	15.5	8	12	22	45
02...	1357	1	0.20	15.5	1	3	14	39
02...	1359	1	0.20	15.5	1	1	4	10
02...	1402	1	0.20	15.5	3	6	10	19
02...	1405	1	0.20	15.5	6	10	25	54
JAN								
09...	1333	1	15	10.5	2	4	13	33
09...	1335	1	16	10.5	1	4	14	40
09...	1338	1	16	10.5	--	1	2	6
09...	1340	1	16	10.5	--	1	2	7
09...	1343	1	17	10.5	--	1	3	12
09...	1345	1	17	10.5	--	1	2	8
JUN								
29...	1400	1	5.6	27.5	1	2	10	23
29...	1405	1	5.6	27.5	--	1	6	14
29...	1410	1	5.6	27.5	--	--	2	9
29...	1415	1	5.6	27.5	--	--	1	6
29...	1420	1	5.6	27.5	--	1	5	16
29...	1425	1	5.6	27.5	--	2	7	16

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
NOV								
02...	73	89	95	97	100	--	--	--
02...	62	69	72	79	88	96	100	--
02...	20	32	50	67	79	83	100	--
02...	39	64	84	95	99	100	--	--
02...	78	84	88	92	95	100	--	--
JAN								
09...	49	55	60	66	81	100	--	--
09...	67	73	75	79	85	94	100	--
09...	10	11	13	16	24	47	100	--
09...	15	21	26	31	41	55	100	--
09...	29	43	54	64	77	94	100	--
09...	15	21	28	36	51	89	100	--
JUN								
29...	37	53	66	76	85	96	100	--
29...	22	26	30	34	42	66	91	100
29...	14	16	19	23	32	53	83	100
29...	12	15	18	21	28	48	66	100
29...	23	27	30	36	49	73	92	100
29...	27	34	37	39	46	64	88	100

11154700 CLEAR CREEK NEAR IDRIA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	START-ING TIME (2400 HOURS)	END-ING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORI-ZONTAL WIDTH OF VER-TICAL (FEET)	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)
JAN										
09...	1310	1000	1150	0.250	0	1305	1315	30	1.0	2
09...	1325	1000	1150	0.250	0	1320	1330	30	1.0	2
12...	1430	1000	1150	0.250	0	1425	1437	30	0.5	2
12...	1445	1000	1150	0.250	0	1441	1451	30	0.5	2
MAR										
01...	1420	1000	1150	0.250	0	1410	1435	30	0.3	1
14...	1150	1000	1150	0.250	0	1140	1200	10	2.0	1
22...	1205	1000	1150	0.250	0	1155	1212	10	1.0	2
22...	1225	1000	1150	0.250	0	1215	1232	10	1.0	2
APR										
17...	1250	1000	1120	0.250	0	1245	1255	30	0.6	2
17...	1305	1000	1120	0.250	0	1300	1310	30	0.6	2
MAY										
10...	1340	1000	1150	0.250	0	1332	1346	30	0.5	2
10...	1355	1000	1150	0.250	0	1348	1400	30	0.5	2

DATE	VER-TICALS IN COM-POSITE SAMPLE (NUM)	NUMBER OF SAM-PLING POINTS (COUNT)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COM POSITE SAMPLE T/D/FT	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN									
09...	14	14	1.50	16	10.5	0.35	3.6	1	2
09...	14	14	1.50	16	10.5	0.17	3.6	1	2
12...	14	14	1.00	18	11.0	2.23	20	--	1
12...	14	14	1.00	18	11.0	3.46	20	--	1
MAR									
01...	40	20	1.10	6.0	11.0	0.10	1.2	--	--
14...	18	18	1.00	85	13.0	14.5	522	--	1
22...	19	19	1.00	26	11.0	13.5	216	--	1
22...	19	19	1.00	28	11.0	9.25	216	--	1
APR									
17...	21	21	0.30	18	10.0	0.08	1.3	--	--
17...	21	21	0.30	18	10.0	0.13	1.3	--	--
MAY									
10...	21	21	0.50	12	15.5	0.05	0.36	--	--
10...	21	21	0.50	12	15.5	0.02	0.36	--	1

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
JAN									
09...	8	32	71	91	98	100	--	--	--
09...	11	46	78	92	98	100	--	--	--
12...	4	17	38	62	82	94	100	--	--
12...	3	12	34	59	81	95	100	--	--
MAR									
01...	2	17	51	71	84	94	100	--	--
14...	4	16	33	51	63	78	89	97	100
22...	3	11	22	32	45	57	74	93	100
22...	6	19	32	40	46	55	70	86	100
APR									
17...	4	33	66	83	93	100	--	--	--
17...	2	16	31	39	42	44	52	100	--
MAY									
10...	5	44	77	90	96	100	--	--	--
10...	4	30	69	86	95	96	100	--	--

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA

LOCATION.--Lat 36°36'34", long 121°12'07", in SE 1/4 SE 1/4 sec.21, T.15 S., R.7 E., San Benito County, Hydrologic Unit 18060002, on left bank 0.9 mi northwest of Willow Creek School, 1.3 mi downstream from Willow Creek, and 10 mi northwest of San Benito.

DRAINAGE AREA.--249 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1565: 1948(M), 1949. WSP 1315-B: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 925.52 ft above sea level. Prior to Jan. 28, 1948, and Nov. 11, 1955, to Sept. 30, 1965, at site 0.9 mi downstream at different datum. Jan. 28, 1948, to Nov. 10, 1955, and Oct. 1, 1965, to Oct. 22, 1970, at present site at datum 2.37 ft higher.

REMARKS.--Records poor. Low flow regulated by Hernandez Reservoir 40 mi upstream beginning in December 1961, capacity, 18,500 acre-ft. Small diversions upstream from station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,660 ft^3/s, Mar. 10, 1995, gage height, 14.55 ft, from flood marks, from rating curve extended above 2,100 ft^3/s on basis of slope-area measurement at gage height 12.94 ft; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 1938 reached a stage of about 9.0 ft, from floodmarks at former site 0.9 mi downstream, referenced to datum used at that site.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	0330	939	7.75	Mar. 10	unknown	*9,660	*14.55
Jan. 24	2030	2,030	8.95	Mar. 23	0815	1,720	8.58

Minimum daily, 0.12 ft^3/s, Dec. 15-18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.22	.19	.18	54	12	152	80	20	24	32	29
2	.26	.21	.19	.14	39	15	136	69	20	26	32	15
3	.26	.21	.17	.18	25	15	146	71	22	18	32	13
4	.23	.21	.16	e35	18	20	132	69	20	20	34	13
5	.23	.20	.16	e25	12	81	107	66	19	18	34	13
6	.22	.19	.19	e21	9.7	129	93	70	19	17	34	17
7	.23	.21	.19	e30	8.4	63	77	67	19	17	34	37
8	.22	.19	.19	e25	22	42	70	63	18	19	34	42
9	.22	.23	.20	e75	163	519	69	e59	16	18	33	46
10	.22	.20	.17	e500	43	e5000	65	e54	8.7	19	38	48
11	.23	.19	.17	e195	19	4730	64	e51	15	21	44	49
12	.22	.19	.15	e86	14	1550	68	e48	20	23	43	49
13	.22	.19	.14	e83	15	866	77	e52	17	22	43	50
14	.22	.19	.14	e90	179	573	80	e60	13	22	43	51
15	.22	.21	.12	123	112	419	80	e50	15	22	42	51
16	.24	.19	.12	65	61	310	84	e40	e17	22	43	50
17	.25	.19	.12	24	45	228	78	e36	16	25	42	51
18	.22	.18	.12	16	35	173	79	e35	12	37	43	50
19	.22	.18	.15	10	30	131	78	34	10	36	43	51
20	.23	.19	.16	28	25	156	77	30	13	35	43	51
21	.22	.19	.17	e230	21	222	75	29	12	35	41	52
22	.24	.17	.18	e65	18	273	68	27	14	35	42	51
23	.25	.16	.20	e100	16	1420	e60	26	11	34	43	51
24	.22	.16	.25	1200	15	956	e59	24	e11	32	43	51
25	.22	.17	.19	1300	13	635	e58	23	e10	30	43	52
26	.22	.17	.21	719	12	471	55	23	e10	26	42	53
27	.23	.18	.21	546	12	361	52	21	e10	25	41	54
28	.22	.19	.22	399	12	293	51	20	11	25	40	51
29	.22	.16	.19	232	---	245	62	18	14	23	40	53
30	.22	.16	.17	150	---	203	82	19	21	25	39	53
31	.22	---	.16	103	---	161	---	20	---	32	40	---
TOTAL	7.10	5.68	5.35	6475.50	1048.1	20272	2434	1354	453.7	783	1220	1297
MEAN	.23	.19	.17	209	37.4	654	81.1	43.7	15.1	25.3	39.4	43.2
MAX	.26	.23	.25	1300	179	5000	152	80	22	37	44	54
MIN	.22	.16	.12	.14	8.4	12	51	18	8.7	17	32	13
AC-FT	14	11	11	12840	2080	40210	4830	2690	900	1550	2420	2570

e Estimated.

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.60	4.88	15.7	32.0	58.5	78.3	43.1	21.3	19.5	14.7	13.6	10.5
MAX	42.2	38.1	181	238	471	655	532	130	88.5	79.2	71.0	67.2
(WY)	1974	1994	1956	1952	1941	1983	1958	1983	1962	1967	1967	1978
MIN	.013	.069	.095	.081	.11	.23	.21	.15	.078	.019	.000	.000
(WY)	1962	1990	1991	1990	1991	1977	1990	1961	1989	1961	1961	1961

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	1655.85		35355.43			
ANNUAL MEAN	4.54		96.9		26.3	
HIGHEST ANNUAL MEAN					126	1941
LOWEST ANNUAL MEAN					.15	1990
HIGHEST DAILY MEAN	61	Feb 20	5000	Mar 10	5000	Mar 10 1995
LOWEST DAILY MEAN	.12	Dec 15	.12	Dec 15	.00	Sep 19 1947
ANNUAL SEVEN-DAY MINIMUM	.13	Dec 12	.13	Dec 12	.00	Sep 19 1947
INSTANTANEOUS PEAK FLOW			9660	Mar 10	9660	Mar 10 1995
INSTANTANEOUS PEAK STAGE			14.55	Mar 10	14.55	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	3280		70130		19060	
10 PERCENT EXCEEDS	13		140		56	
50 PERCENT EXCEEDS	.49		25		3.3	
90 PERCENT EXCEEDS	.19		.19		.17	

11158600 SAN BENITO RIVER AT STATE HIGHWAY 156, NEAR HOLLISTER, CA

LOCATION.--Lat 36°51'07", long 121°25'44", in San Justo Grant, San Benito County, Hydrologic Unit 18060002, on right bank at downstream side of bridge on State Highway 156 and 1.6 mi west of Hollister.

DRAINAGE AREA.--607 mi^2.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 260 ft above sea level, from topographic map.

REMARKS.--Records poor. Low flows regulated by Hernandez Reservoir 73 mi upstream, capacity, 18,500 acre-ft. Some diversions upstream from station for irrigation. Percolation ponds are constructed upstream from station during summer months.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,700 ft^3/s, Mar. 10, 1995, gage height, 13.30 ft, from rating curve extended above 3,800 ft^3/s on basis of slope-area measurement of peak flow; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	1230	2,010	6.82	Mar. 10	1600	*16,700	*13.30
Jan. 16	1500	820	5.33	Mar. 23	1500	2,620	7.37
Jan. 24	1530	3,640	8.13				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	25	9.6	.33	1.8	e.00	193	114	.00	.00	e20	e1.5
2	.00	24	8.3	.00	.61	e.50	170	71	.04	.00	e20	e.50
3	.00	8.9	4.3	2.7	.30	e.50	144	44	2.6	.00	e20	e.00
4	.67	9.6	4.4	55	.17	e8.0	133	30	e5.0	.00	e20	e.00
5	.08	11	5.5	.82	e.00	e.00	121	19	e10	.00	e20	e.00
6	.00	11	7.6	.08	.00	e.00	109	16	e20	.00	e20	e.00
7	.00	11	6.1	28	.00	e.00	101	11	e10	.00	e20	e1.0
8	.00	8.3	7.1	92	.00	e.00	90	5.5	e2.0	.00	e20	e5.0
9	.00	55	8.0	91	e.00	e175	81	4.9	26	11	e20	e10
10	.00	9.5	39	913	e.00	6660	72	4.9	27	18	e20	e11
11	.00	4.5	43	823	e.00	8030	66	4.2	e10	.48	e20	e12
12	.00	8.6	26	98	e.00	4480	58	4.0	e.00	.00	e20	e12
13	.00	9.4	.76	5.0	e5.0	2080	59	6.3	.00	.00	e20	e13
14	.00	11	6.9	4.7	e.00	1410	61	24	.00	4.2	e20	11
15	.00	13	4.7	212	e.50	1020	64	47	.00	2.5	e20	7.6
16	.00	8.0	4.6	523	e.00	896	69	62	.08	1.6	e20	8.9
17	.00	10	5.4	e200	e.00	774	63	48	.00	2.6	e20	4.8
18	.00	6.0	5.6	e40	e.00	699	59	30	.00	e13	e20	15
19	.00	9.1	5.3	e20	e.00	626	57	e19	.00	e13	e18	20
20	.18	9.2	5.3	3.6	e.00	600	56	e19	.00	e13	e12	21
21	4.6	9.1	2.6	35	e.00	832	51	e16	.00	21	e10	16
22	3.6	9.5	.00	63	e.00	816	44	e13	.00	24	e19	15
23	3.9	9.7	.00	8.7	e.00	2230	38	e12	.00	e22	26	14
24	6.2	9.4	.64	818	e.00	1300	33	e8.0	.00	e28	28	15
25	11	25	.00	1660	e.00	825	29	2.7	.00	e25	21	14
26	14	28	.00	518	e.00	565	26	2.5	.00	e25	23	12
27	16	4.4	.00	193	e.00	456	26	1.7	.00	e25	27	14
28	19	6.4	.09	e250	e.50	378	29	1.4	.00	e15	29	15
29	19	10	.00	e70	---	311	42	.05	.00	e10	20	13
30	20	10	.00	e10	---	260	77	.00	.00	e3.0	7.0	8.5
31	20	---	.00	e10	---	220	---	.00	---	e1.0	5.6	---
TOTAL	138.23	383.6	210.79	6747.93	8.88	35652.00	2221	641.15	112.72	278.38	605.6	290.80
MEAN	4.46	12.8	6.80	218	.32	1150	74.0	20.7	3.76	8.98	19.5	9.69
MAX	20	55	43	1660	5.0	8030	193	114	27	28	29	21
MIN	.00	4.4	.00	.00	.00	.00	26	.00	.00	.00	5.6	.00
AC-FT	274	761	418	13380	18	70720	4410	1270	224	552	1200	577

e Estimated.

11158600 SAN BENITO RIVER AT STATE HIGHWAY 156, NEAR HOLLISTER, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.28	5.15	15.2	56.7	100	150	34.4	10.8	5.76	4.91	5.63	4.71
MAX	8.73	38.2	154	335	613	1545	373	184	18.1	18.0	19.5	16.3
(WY)	1974	1984	1984	1983	1978	1983	1983	1983	1983	1980	1995	1973
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1973	1975	1977	1977	1977	1977	1977	1976	1972	1972	1972	1972

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1971 - 1995	
ANNUAL TOTAL	1875.63		47291.08			
ANNUAL MEAN	5.14		130		32.7	
HIGHEST ANNUAL MEAN					269	1983
LOWEST ANNUAL MEAN					.000	1977
HIGHEST DAILY MEAN	208	Feb 21	8030	Mar 11	8860	Mar 1 1983
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Feb 1 1971
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 6	.00	Oct 11 1971
INSTANTANEOUS PEAK FLOW			16700	Mar 10	16700	Mar 10 1995
INSTANTANEOUS PEAK STAGE			13.30	Mar 10	13.30	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	3720		93800		23710	
10 PERCENT EXCEEDS	12		137		25	
50 PERCENT EXCEEDS	.00		9.7		.70	
90 PERCENT EXCEEDS	.00		.00		.00	

11159000 PAJARO RIVER AT CHITTENDEN, CA

LOCATION.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, Santa Cruz County, Hydrologic Unit 18060002, on left bank at downstream side of bridge on State Highway 129, 0.6 mi downstream from Pescadero Creek, 0.6 mi southeast of Chittenden, and 2.3 mi downstream from San Benito River.

DRAINAGE AREA.--1,186 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "near Chittenden."
CHEMICAL DATA: Water years 1952-92.
BIOLOGICAL DATA: Water years 1978-81.
SPECIFIC CONDUCTANCE: Water years 1978-81, daily.
WATER TEMPERATURE: Water years 1978-81, daily.
SEDIMENT DATA: Water years 1978-92.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 81.89 ft above sea level. Prior to May 13, 1949, nonrecording gage on former bridge 100 ft downstream at same datum except for periods in 1947 and 1948 when a water-stage recorder was in use.

REMARKS.--No estimated daily discharges. Records fair. Low flows regulated by Hernandez Reservoir, capacity, 18,500 acre-ft; Pacheco Lake, capacity, 6,140 acre-ft; Chesbro Reservoir, capacity, 8,090 acre-ft; Uvas Reservoir, capacity, 9,950 acre-ft; and San Felipe Lake. Many diversions upstream from station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft^3/s, Dec. 24, 1955, gage height, 32.46 ft, from rating curve extended above 8,300 ft^3/s on basis of slope-conveyance study; maximum gage height, 33.11 ft, Apr. 3, 1958; no flow at times in July and August 1948.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1938 reached a stage of 31.3 ft, from floodmarks.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 11	1130	1,990	14.05	Mar. 11	1300	*21,500	*32.20
Jan. 16	0600	1,270	11.35	Mar. 23	1800	8,090	23.88
Jan. 25	1700	4,450	20.58	Apr. 30	0515	756	9.28

Minimum daily, 1.8 ft^3/s, Nov. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	2.0	5.0	11	918	63	809	504	68	22	14	9.6
2	4.3	1.9	5.0	12	692	64	706	529	66	21	15	9.4
3	4.1	1.8	5.6	12	468	83	646	414	64	21	14	9.3
4	3.3	1.9	5.7	34	324	94	532	336	61	20	15	8.9
5	4.3	2.3	6.0	144	259	106	467	275	57	19	15	8.8
6	4.6	3.4	6.7	73	211	98	425	238	51	19	15	9.0
7	3.7	3.6	6.7	48	174	92	435	208	51	18	15	8.3
8	3.3	2.9	6.5	41	141	152	444	185	52	17	14	8.9
9	2.9	2.9	6.5	43	121	550	345	166	50	18	13	8.6
10	2.7	3.0	6.5	1240	105	8120	287	158	47	18	13	8.2
11	2.7	3.4	7.0	1700	94	19400	272	148	44	17	13	8.2
12	2.4	3.1	7.9	785	85	13600	254	139	41	16	13	7.3
13	2.9	2.9	13	680	85	7450	246	139	40	15	12	8.5
14	3.0	2.7	13	490	107	3590	242	139	39	15	12	8.2
15	3.1	2.6	11	742	90	2090	237	150	44	14	13	7.3
16	3.0	3.0	11	1070	75	1500	248	176	47	15	15	7.4
17	2.4	3.0	9.6	672	68	1190	238	188	40	17	13	7.5
18	2.2	3.0	9.9	420	61	1130	226	150	37	15	12	7.5
19	2.4	3.0	11	422	55	1060	220	130	34	15	13	7.0
20	3.0	2.8	10	287	52	1060	212	121	32	17	14	8.3
21	3.1	2.9	10	253	48	1600	187	118	29	17	12	9.0
22	2.8	2.8	9.9	305	46	1680	175	105	30	16	11	8.5
23	2.8	2.8	9.9	541	42	1730	160	94	30	16	12	9.2
24	3.1	3.2	11	1660	40	6530	148	92	31	17	13	9.1
25	2.6	3.7	14	4000	39	4160	135	88	29	17	12	8.5
26	2.4	6.1	13	2950	37	2700	125	84	26	17	12	7.9
27	2.3	16	11	2270	48	2010	124	80	25	17	12	7.1
28	2.3	7.0	11	3130	63	1860	137	79	24	17	12	6.7
29	2.1	5.3	11	1970	---	1510	219	76	25	16	11	6.6
30	3.1	5.0	11	1340	---	1070	595	73	24	17	11	6.8
31	2.7	---	11	1040	---	936	---	70	---	17	10	---
TOTAL	94.2	110.0	286.4	28385	4548	87278	9496	5452	1238	533	401	245.6
MEAN	3.04	3.67	9.24	916	162	2815	317	176	41.3	17.2	12.9	8.19
MAX	4.6	16	14	4000	918	19400	809	529	68	22	15	9.6
MIN	2.1	1.8	5.0	11	37	63	124	70	24	14	10	6.6
AC-FT	187	218	568	56300	9020	173100	18840	10810	2460	1060	795	487

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.14	31.2	133	385	494	462	251	47.4	14.0	7.46	5.91	6.28
MAX	22.7	843	1990	2350	2641	4227	3165	646	92.9	26.2	22.1	93.3
(WY)	1984	1951	1956	1952	1969	1983	1958	1983	1983	1983	1983	1959
MIN	.10	.27	.60	1.22	1.28	1.50	.97	.75	.66	.37	.37	.24
(WY)	1962	1993	1962	1991	1991	1977	1977	1977	1977	1961	1948	1961

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	6783.2		138067.2			
ANNUAL MEAN	18.6		378		152	
HIGHEST ANNUAL MEAN					905	1983
LOWEST ANNUAL MEAN					1.06	1977
HIGHEST DAILY MEAN	494	Feb 20	19400	Mar 11	21700	Dec 24 1955
LOWEST DAILY MEAN	1.8	Nov 3	1.8	Nov 3	.00	Jul 11 1948
ANNUAL SEVEN-DAY MINIMUM	2.2	Oct 29	2.2	Oct 29	.00	Aug 16 1948
INSTANTANEOUS PEAK FLOW			21500	Mar 11	24000	Dec 24 1955
INSTANTANEOUS PEAK STAGE			32.20	Mar 11	33.11	Apr 3 1958
INSTANTANEOUS LOW FLOW			1.8	Nov 3	.00	Jul 11 1948
ANNUAL RUNOFF (AC-FT)	13450		273900		110000	
10 PERCENT EXCEEDS	29		759		219	
50 PERCENT EXCEEDS	9.9		19		11	
90 PERCENT EXCEEDS	3.0		3.0		1.1	

11159200 CORRALITOS CREEK AT FREEDOM, CA

LOCATION.--Lat 36°56'22", long 121°46'10", in Los Corralitos Grant, Santa Cruz County, Hydrologic Unit 18060002, on right bank just upstream from Green Valley Road Bridge, 0.2 mi north of Freedom, and 2.3 mi north of Watsonville.

DRAINAGE AREA.--27.8 mi^2.

PERIOD OF RECORD.--October 1956 to current year.
SEDIMENT DATA: Water years 1976-77, 1980-81.

GAGE.--Water-stage recorder. Datum of gage is 89.43 ft above sea level.

REMARKS.--Records fair except for estimated discharges and those less than 1 ft^3/s, which are poor. No regulation; Watsonville Water Works can divert up to 8.0 ft^3/s upstream from station for municipal supply, domestic use, and irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,610 ft^3/s, Jan. 4, 1982, gage height, 16.66 ft, from rating curve extended above 1,400 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 15.6 ft, from floodmarks, discharge, 3,620 ft^3/s based on contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2300	1,820	10.01	Mar. 10	1200	*2,330	*11.18
Jan. 14	0330	654	6.57	Mar. 22	2015	975	7.67
Jan. 28	0015	823	7.17				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.01	75	6.0	44	141	6.4	1.1	.15	.11
2	.00	.00	.00	.01	64	6.0	40	120	6.0	1.1	.17	.12
3	.00	.00	.00	3.3	56	11	35	79	6.0	1.1	.18	.12
4	.14	.00	4.1	78	45	13	33	62	6.3	1.8	.19	.08
5	.06	.05	5.2	48	39	13	31	51	6.0	1.6	.21	.04
6	.00	10	.92	18	35	9.3	29	41	5.7	1.2	.26	.01
7	.00	1.1	.21	36	31	7.9	27	34	5.6	e1.0	.27	.00
8	.00	.00	.02	30	29	12	28	31	5.5	e.90	.27	.00
9	.00	27	.04	233	28	197	26	30	5.2	e.80	.24	.00
10	.00	11	.00	530	25	1190	24	28	4.9	e.70	.24	.00
11	.00	2.0	.00	187	22	365	22	25	5.0	e.60	.21	.00
12	.00	.38	6.7	138	20	191	21	24	4.7	e.50	.21	.00
13	.00	.00	1.0	117	19	131	20	27	4.5	e.45	.21	.00
14	.00	.00	1.9	416	20	99	19	24	5.0	e.40	.20	.00
15	.00	.00	4.3	217	17	78	18	23	6.7	e.35	.18	.00
16	.00	.00	1.6	128	15	60	17	19	11	e.30	.18	.00
17	.00	.00	.74	73	14	49	17	16	7.2	e.27	.18	.00
18	.00	.00	.19	54	13	41	16	14	e6.0	e.25	.18	.00
19	.00	.00	.05	44	12	37	15	14	e5.0	e.23	.15	.00
20	.00	.00	.00	39	11	71	14	14	e4.0	e.21	.15	.00
21	.00	.00	.00	40	10	82	13	13	e3.4	e.19	.15	.00
22	.00	.00	.00	79	9.2	490	12	13	e3.0	e.18	.15	.00
23	.00	.00	.00	134	8.4	388	12	12	e2.6	e.17	.17	.00
24	.00	.00	2.8	169	7.4	197	11	12	e2.3	e.16	.17	.00
25	.00	2.5	.50	107	7.4	141	9.8	12	e2.1	.15	.16	.00
26	.00	3.5	.05	88	7.4	107	9.1	11	e1.9	.16	.18	.00
27	.00	.67	.00	641	7.2	79	10	11	e1.7	.18	.17	.00
28	.00	.05	.35	450	6.7	65	23	9.4	e1.5	.21	.13	.00
29	.00	.00	.30	191	---	57	201	8.4	e1.3	.21	.11	.00
30	.00	.00	.00	126	---	52	162	7.6	e1.2	.20	.11	.00
31	.00	---	.00	93	---	49	---	6.8	---	.15	.09	---
TOTAL	0.20	58.25	30.97	4507.32	653.7	4294.2	958.9	933.2	137.7	16.82	5.62	0.48
MEAN	.006	1.94	1.00	145	23.3	139	32.0	30.1	4.59	.54	.18	.016
MAX	.14	27	6.7	641	75	1190	201	141	11	1.8	.27	.12
MIN	.00	.00	.00	.01	6.7	6.0	9.1	6.8	1.2	.15	.09	.00
AC-FT	.4	116	61	8940	1300	8520	1900	1850	273	33	11	1.0

e Estimated.

11159200 CORRALITOS CREEK AT FREEDOM, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.85	5.16	13.2	44.3	50.3	37.4	22.4	4.97	.96	.37	.17	.65
MAX	17.4	37.3	86.7	167	256	209	166	39.1	9.10	4.77	1.15	20.8
(WY)	1963	1984	1965	1982	1986	1983	1958	1983	1983	1983	1983	1959
MIN	.000	.000	.000	.000	.003	.076	.000	.000	.000	.000	.000	.000
(WY)	1962	1981	1991	1991	1991	1988	1977	1977	1962	1961	1961	1961

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1957 - 1995	
ANNUAL TOTAL	495.99		11597.36			
ANNUAL MEAN	1.36		31.8		14.9	
HIGHEST ANNUAL MEAN					56.4	1983
LOWEST ANNUAL MEAN					.17	1977
HIGHEST DAILY MEAN	67	Feb 19	1190	Mar 10	2290	Jan 4 1982
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jun 12 1957
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 6	.00	Jun 12 1957
INSTANTANEOUS PEAK FLOW			2330	Mar 10	5610	Jan 4 1982
INSTANTANEOUS PEAK STAGE			11.18	Mar 10	16.66	Jan 4 1982
ANNUAL RUNOFF (AC-FT)	984		23000		10780	
10 PERCENT EXCEEDS	2.7		78		30	
50 PERCENT EXCEEDS	.00		2.3		.35	
90 PERCENT EXCEEDS	.00		.00		.00	

11160000 SOQUEL CREEK AT SOQUEL, CA

LOCATION.--Lat 36°59'29", long 121°57'17", in NE 1/4 sec.10, T.11 S., R.1 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank 0.2 mi upstream from highway bridge in town of Soquel and 0.4 mi downstream from Bates Creek.

DRAINAGE AREA.--40.2 mi^2.

PERIOD OF RECORD.--May 1951 to current year.
CHEMICAL DATA: Water years 1952-66, 1977.
WATER TEMPERATURE: Water years 1966-79.
SEDIMENT DATA: Water years 1976-77, 1990-93.

REVISED RECORDS.--WSP 1715: Drainage area. WSP 2129: 1958, 1959-60(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 21.38 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation; many diversions upstream from station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft^3/s, Dec. 23, 1955, gage height, 22.33 ft, from rating curve extended above 2,900 ft^3/s on basis of slope-area measurement of peak flow; no flow at times in 1977, 1988, 1992-1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2300	*7,370	*17.93	Jan. 27	1245	1,370	7.42
Jan. 14	0230	1,250	7.16	Mar. 10	1600	4,620	12.89
Jan. 22	2300	1,040	6.61	Mar. 22	1100	1,980	8.71

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	e.00	8.2	6.1	183	25	148	239	23	16	7.8	4.6
2	e.00	e.00	10	6.9	150	26	103	171	23	16	7.8	4.6
3	e.00	e.00	18	44	124	58	88	119	23	15	7.5	4.4
4	e13	e.00	53	194	108	35	81	94	23	15	6.9	4.4
5	e5.2	e35	32	147	93	36	75	78	22	15	7.2	4.1
6	e2.4	e60	15	56	82	29	65	70	21	14	7.3	4.0
7	e1.0	e15	9.2	250	77	28	70	65	22	13	7.4	3.7
8	e.40	e6.8	5.7	242	74	44	54	62	21	13	7.1	3.7
9	e.16	27	4.0	1210	62	864	47	63	21	12	6.4	3.8
10	e.00	37	3.8	1580	55	2350	43	63	20	11	6.7	4.3
11	e.00	8.9	4.7	453	52	699	40	55	19	11	6.4	4.2
12	e.00	5.3	17	386	53	442	38	53	20	12	6.4	6.9
13	e.00	5.1	28	353	51	271	41	59	20	11	6.0	8.2
14	e.00	4.4	28	799	47	203	36	56	21	10	6.0	7.7
15	e.00	6.4	34	491	39	149	35	61	24	10	6.0	8.4
16	e.00	4.0	18	293	39	111	36	57	31	10	5.8	7.7
17	e.00	4.3	13	194	38	90	32	51	22	9.6	5.6	7.2
18	e.00	4.8	11	144	34	75	33	48	21	10	5.5	6.2
19	e.00	4.3	9.7	125	34	65	31	47	19	9.8	5.1	5.4
20	e.00	4.1	8.9	135	32	146	31	45	18	9.8	5.0	4.9
21	e.00	4.2	7.8	184	31	141	29	44	17	9.5	5.2	4.8
22	e.00	3.9	6.9	408	29	875	27	42	17	9.0	5.2	4.8
23	e.00	3.4	6.2	525	29	627	26	41	17	9.5	5.2	4.8
24	e.00	3.2	20	464	29	401	25	40	16	10	5.2	4.4
25	e.00	20	15	295	28	279	24	40	15	8.3	4.8	4.4
26	e.00	27	10	286	28	222	24	32	15	8.5	4.8	4.2
27	e.00	12	8.6	969	27	185	40	30	15	8.4	4.8	4.3
28	e.00	7.8	7.9	640	26	163	58	28	15	8.4	5.0	3.8
29	e.00	6.6	7.1	411	---	136	294	27	16	8.1	4.4	3.7
30	e.00	6.8	6.6	310	---	123	185	25	16	8.0	4.4	3.8
31	e.00	---	5.7	230	---	150	---	24	---	8.0	4.4	---
TOTAL	22.16	327.30	433.0	11831.0	1654	9048	1859	1929	593	338.9	183.3	151.4
MEAN	.71	10.9	14.0	382	59.1	292	62.0	62.2	19.8	10.9	5.91	5.05
MAX	13	60	53	1580	183	2350	294	239	31	16	7.8	8.4
MIN	.00	.00	3.8	6.1	26	25	24	24	15	8.0	4.4	3.7
AC-FT	44	649	859	23470	3280	17950	3690	3830	1180	672	364	300

e Estimated.

11160000 SOQUEL CREEK AT SOQUEL, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.50	16.6	58.2	116	115	96.7	55.2	19.3	8.85	4.98	3.11	3.10
MAX	111	78.5	625	437	596	577	324	95.9	28.8	15.3	10.5	22.4
(WY)	1963	1973	1956	1952	1986	1983	1982	1983	1983	1983	1983	1959
MIN	.65	1.36	2.74	2.57	3.96	3.97	2.81	2.26	.91	.26	.17	.058
(WY)	1989	1991	1991	1991	1977	1988	1977	1977	1977	1977	1977	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	3620.45		28370.06			
ANNUAL MEAN	9.92		77.7		41.6	
HIGHEST ANNUAL MEAN					169	1983
LOWEST ANNUAL MEAN					2.89	1977
HIGHEST DAILY MEAN	322	Feb 19	2350	Mar 10	8800	Dec 23 1955
LOWEST DAILY MEAN	.00	Aug 16	.00	Oct 1	.00	Jul 30 1977
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 4	.00	Oct 10	.00	Aug 15 1992
INSTANTANEOUS PEAK FLOW			7370	Jan 9	15800	Dec 23 1955
INSTANTANEOUS PEAK STAGE			17.93	Jan 9	22.33	Dec 23 1955
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Jul 30 1977
ANNUAL RUNOFF (AC-FT)	7180		56270		30170	
10 PERCENT EXCEEDS	20		185		79	
50 PERCENT EXCEEDS	4.1		18		7.3	
90 PERCENT EXCEEDS	.00		3.7		1.4	

11160430 BEAN CREEK NEAR SCOTTS VALLEY, CA

LOCATION.--Lat 37°03'19", long 122°02'25", in San Augustin Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank, 0.3 mi downstream from unnamed left bank tributary, 100 ft northeast of Mt. Hermon Road, 1.2 mi northwest of Scotts Valley Post Office, and 1.8 mi east of Felton.

DRAINAGE AREA.--8.81 mi^2.

PERIOD OF RECORD.--January 1989 to current year.

REVISED RECORDS.--WDR CA-93-2: 1989-92 (P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 320 ft above sea level, from topographic map.

REMARKS.--Records fair except January to May, which are poor. No regulation; small diversions upstream from station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft^3/s, Mar. 10, 1995, gage height, 9.77 ft, from rating curve extended above 310 ft^3/s on basis of slope-area measurement at gage height 9.29 ft; minimum daily, 0.94 ft^3/s, Jan. 31, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2230	978	8.59	Mar. 22	1930	215	5.86
Mar. 10	1130	*1,350	*9.77				

Minimum daily, 1.6 ft^3/s, Oct. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.7	2.3	2.3	45	4.0	e15	38	5.0	3.5	2.3	2.0
2	1.6	2.8	2.2	3.6	35	6.1	e14	39	4.9	3.5	2.4	2.0
3	1.7	2.7	2.9	24	34	8.1	e13	27	4.7	3.5	2.3	2.0
4	9.4	2.7	11	59	27	6.3	e12	e21	4.7	3.5	2.3	2.1
5	5.4	15	4.1	41	17	5.9	e11	e20	4.7	3.5	2.3	2.1
6	4.1	23	3.4	25	16	5.1	e14	e18	4.5	3.3	2.3	2.1
7	4.2	5.5	2.9	95	16	4.5	e11	e15	4.6	3.2	2.2	2.1
8	4.3	3.0	2.7	110	20	19	e10	e13	4.5	3.2	2.2	2.1
9	3.0	14	2.6	222	16	330	e9.5	e11	4.3	3.1	2.2	2.1
10	3.0	9.9	2.6	327	15	714	e9.0	e10	4.3	3.0	2.2	2.1
11	3.0	3.3	2.9	112	14	275	e8.5	10	4.3	3.0	2.2	2.1
12	2.9	2.2	12	91	13	126	7.9	11	4.2	3.0	2.2	2.1
13	2.8	2.0	7.6	89	12	75	9.4	14	4.2	3.0	2.2	2.1
14	2.7	2.0	17	162	10	45	7.3	10	4.2	2.9	2.1	2.1
15	2.7	6.0	15	152	7.6	28	8.5	9.7	4.9	2.8	2.4	2.0
16	2.7	3.4	8.4	97	6.9	24	8.0	9.0	8.6	2.8	2.1	2.0
17	2.7	3.0	5.3	63	6.4	23	7.3	8.0	4.5	2.7	2.1	2.1
18	2.7	2.7	3.7	40	6.1	21	7.7	7.5	4.2	2.8	2.1	2.0
19	2.7	2.5	3.4	33	5.9	19	7.6	7.2	4.2	2.7	2.1	2.1
20	2.7	2.3	3.2	47	5.6	32	8.1	7.1	4.2	2.7	2.1	2.1
21	2.7	2.3	2.8	e70	5.3	28	7.1	6.8	4.1	2.6	2.2	2.1
22	2.7	2.2	2.7	e130	5.2	126	7.0	6.5	3.9	2.5	2.2	2.1
23	2.7	2.2	2.6	e220	5.0	99	6.8	6.5	3.7	2.5	2.2	2.1
24	3.1	2.4	9.3	e122	4.8	47	6.5	6.3	3.6	2.5	2.2	2.1
25	3.1	11	3.3	97	4.6	28	6.5	5.9	3.6	2.6	2.1	2.0
26	3.1	8.0	2.8	e84	4.3	26	6.3	5.7	3.6	2.5	2.1	2.2
27	3.1	3.6	2.7	e180	4.2	24	13	5.3	3.5	2.5	2.0	2.3
28	2.7	3.0	2.5	e140	4.3	22	11	5.3	3.6	2.3	2.1	2.2
29	2.8	2.6	2.4	e110	---	e20	44	5.3	3.5	2.2	2.0	2.2
30	2.7	2.5	2.3	e80	---	e18	30	5.2	3.5	2.3	2.0	2.3
31	2.7	---	2.3	62	---	e16	---	5.0	---	2.4	2.1	---
TOTAL	97.3	150.5	150.9	3089.9	366.2	2225.0	337.0	369.3	130.3	88.6	67.5	63.0
MEAN	3.14	5.02	4.87	99.7	13.1	71.8	11.2	11.9	4.34	2.86	2.18	2.10
MAX	9.4	23	17	327	45	714	44	39	8.6	3.5	2.4	2.3
MIN	1.6	2.0	2.2	2.3	4.2	4.0	6.3	5.0	3.5	2.2	2.0	2.0
AC-FT	193	299	299	6130	726	4410	668	733	258	176	134	125

e Estimated.

11160430 BEAN CREEK NEAR SCOTTS VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.47	2.95	5.13	32.1	21.4	23.5	5.36	4.11	2.57	2.16	2.01	1.97
MAX	3.14	5.02	12.1	99.7	52.1	71.8	11.2	11.9	4.34	2.86	2.28	2.26
(WY)	1995	1995	1993	1995	1993	1995	1995	1995	1995	1995	1993	1993
MIN	1.96	1.96	2.16	2.11	2.42	3.81	2.62	2.33	1.79	1.71	1.84	1.76
(WY)	1991	1993	1991	1991	1991	1994	1990	1989	1994	1991	1989	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1989 - 1995	
ANNUAL TOTAL	1647.7		7135.5			
ANNUAL MEAN	4.51		19.5		9.15	
HIGHEST ANNUAL MEAN					19.5	1995
LOWEST ANNUAL MEAN					3.00	1990
HIGHEST DAILY MEAN	97	Feb 19	714	Mar 10	714	Mar 10 1995
LOWEST DAILY MEAN	1.5	Sep 28	1.6	Oct 1	.94	Jan 31 1992
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 27	2.0	Aug 27	1.0	Jan 21 1992
INSTANTANEOUS PEAK FLOW			1350	Mar 10	1350	Mar 10 1995
INSTANTANEOUS PEAK STAGE			9.77	Mar 10	9.77	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	3270		14150		6630	
10 PERCENT EXCEEDS	7.7		40		14	
50 PERCENT EXCEEDS	2.5		4.2		2.4	
90 PERCENT EXCEEDS	1.8		2.1		1.8	

11160500 SAN LORENZO RIVER AT BIG TREES, CA

LOCATION.--Lat 37°02'40", long 122°04'17", in Zayante Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank 20 ft upstream from bridge on Henry Cowell State Park Road, 200 ft upstream from Shingle Mill Creek, 0.3 mi downstream from Zayante Creek, 0.9 mi northwest of Big Trees Station on Southern Pacific Railroad, and 5.3 mi northwest of Santa Cruz.
DRAINAGE AREA.--106 mi^2.

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1315-B.
CHEMICAL DATA: Water years 1906-7, 1952-67, 1969-70, 1973-75, 1977, 1980-81.
WATER TEMPERATURE: Water years 1966-82, daily.
SEDIMENT DISCHARGE: Water years 1973-82, daily; 1986, 1990-93, monthly.

REVISED RECORDS.--WSP 1315-B: 1938(M). WSP 1715: Drainage area.
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 227.00 ft above sea level. Prior to Oct. 6, 1972, at site 1.3 mi downstream at different datum.

REMARKS.--Records good except for Nov. 7 to Jan. 8 and estimated daily discharges, which are fair. Low flow partially regulated by Loch Lomond Reservoir since 1961, capacity, 8,820 acre-ft, and by a fiber dam located 500 ft upstream from gage. Many small diversions upstream from station for domestic supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft^3/s, Dec. 23, 1955, gage height, 22.55 ft, site and datum then in use, from rating curve extended above 11,000 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 28.85 ft, Jan. 5, 1982; minimum daily discharge, 5.6 ft^3/s, July 27, 28, 1977.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2315	11,000	18.33	Jan. 27	1230	2,720	10.03
Jan. 9	2315	(a)	18.94	Mar. 10	1445	*14,200	*20.71
Jan. 15	0430	1,890	8.71	Mar. 10	1445	(a)	*22.23
Jan. 23	0130	4,150	11.90	Mar. 22	2145	4,020	11.74

(a) From crest-stage gage.

Minimum daily, 11 ft^3/s, Oct. 1-3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	27	24	e460	107	322	441	100	58	35	25
2	11	12	25	26	409	177	304	390	97	57	34	25
3	11	12	31	244	361	225	286	308	98	57	34	25
4	27	12	81	427	323	171	271	270	92	56	34	25
5	30	107	55	264	293	170	259	246	88	55	34	24
6	17	252	40	149	271	144	250	228	86	53	34	24
7	14	70	35	779	256	131	286	211	82	52	34	23
8	13	33	32	1140	273	253	260	198	83	50	32	24
9	12	75	30	2010	245	4010	236	189	82	49	32	24
10	12	80	28	4360	222	8520	234	185	79	49	32	24
11	12	33	29	1090	208	3150	217	175	80	48	32	25
12	12	24	82	714	199	1480	206	175	78	48	31	24
13	12	21	85	629	190	891	214	213	76	48	31	24
14	12	19	141	1580	181	714	192	195	78	46	30	24
15	12	56	140	1420	167	632	199	217	84	45	30	23
16	13	47	66	797	159	537	202	231	125	44	30	24
17	13	34	40	524	153	475	183	194	88	44	29	23
18	12	34	34	398	148	433	182	180	80	44	29	23
19	12	27	29	329	146	402	171	172	77	44	28	23
20	12	24	25	382	139	731	177	163	74	43	29	23
21	12	22	25	516	133	718	164	157	71	42	28	22
22	12	21	24	1240	128	2260	156	151	69	42	28	22
23	12	20	24	2500	124	2100	151	148	67	41	28	22
24	12	19	73	1300	120	1090	145	142	65	41	27	25
25	12	98	48	764	116	730	140	138	64	40	27	22
26	12	106	29	617	113	588	136	131	62	40	26	22
27	13	52	25	1940	111	507	186	124	61	39	26	22
28	13	39	27	1370	112	451	196	120	60	38	26	22
29	13	32	25	837	---	396	480	116	60	37	26	22
30	13	29	24	618	---	372	403	110	59	37	25	21
31	13	---	27	e510	---	343	---	104	---	35	25	---
TOTAL	417	1423	1406	29498	5760	32908	6808	6022	2365	1422	926	701
MEAN	13.5	47.4	45.4	952	206	1062	227	194	78.8	45.9	29.9	23.4
MAX	30	252	141	4360	460	8520	480	441	125	58	35	25
MIN	11	12	24	24	111	107	136	104	59	35	25	21
AC-FT	827	2820	2790	58510	11420	65270	13500	11940	4690	2820	1840	1390

e Estimated.

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	23.2	54.2	150	312	383	303	177	71.6	40.0	26.2	19.7	17.9
MAX	176	461	1319	1242	1532	1483	1005	322	112	65.8	44.0	52.1
(WY)	1963	1951	1956	1952	1986	1983	1958	1983	1983	1983	1983	1959
MIN	8.26	11.4	14.7	13.8	16.6	21.4	12.3	11.6	9.37	6.66	6.50	8.28
(WY)	1978	1991	1991	1991	1977	1977	1977	1977	1977	1977	1977	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1937 - 1995	
ANNUAL TOTAL	14710.4		89656			
ANNUAL MEAN	40.3		246		130	
HIGHEST ANNUAL MEAN					391	1983
LOWEST ANNUAL MEAN					13.2	1977
HIGHEST DAILY MEAN	830	Feb 20	8520	Mar 10	17000	Dec 23 1955
LOWEST DAILY MEAN	8.8	Aug 16	11	Oct 1	5.6	Jul 27 1977
ANNUAL SEVEN-DAY MINIMUM	9.2	Aug 12	12	Oct 9	5.8	Jul 26 1977
INSTANTANEOUS PEAK FLOW			14200	Mar 10	30400	Dec 23 1955
INSTANTANEOUS PEAK STAGE			20.71	Mar 10	28.85	Jan 5 1982
INSTANTANEOUS LOW FLOW			11	Oct 1	5.6	Jul 27 1977
ANNUAL RUNOFF (AC-FT)	29180		177800		94340	
10 PERCENT EXCEEDS	71		512		267	
50 PERCENT EXCEEDS	24		70		32	
90 PERCENT EXCEEDS	11		21		13	

11161000 SAN LORENZO RIVER AT SANTA CRUZ, CA

LOCATION.--Lat 36°59'27", long 122°01'51", in La Carbonera Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank, in city of Santa Cruz Water Meter Repair compound, 0.3 mi upstream from intersection of State Highways 1 and 9, 1.0 mi north of Santa Cruz, and 2.4 mi upstream from mouth.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--October 1952 to September 1960, October 1987 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 5.84 ft above sea level (levels by city of Santa Cruz Water Department). October 1952 to September 1960, water-stage recorder at site 0.1 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Low flow partially regulated by Loch Lomond Reservoir since 1961, capacity, 8,820 acre-ft, and by a fiber dam located 6.8 mi upstream from gage. Water is diverted 50 ft upstream from station by city of Santa Cruz for municipal supply; many small diversions upstream from station for domestic supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft^3/s, Dec. 23, 1955, gage height, 23.10 ft, site and datum then in use, from rating curve extended above 4,500 ft^3/s on basis of slope-area measurement of peak flow; no flow for several days in 1955 and many days in 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	0030	11,100	15.20	Mar. 10	1615	*14,400	*16.63
Jan. 23	0145	4,440	11.23	Mar. 22	2145	3,700	10.61
Jan. 27	1315	3,320	10.27				

Minimum daily, 0.32 ft^3/s, Oct. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	e3.3	22	18	567	104	316	456	85	57	29	21
2	.32	e3.3	19	17	505	159	290	401	84	57	29	20
3	e.96	e3.3	22	258	436	244	263	304	83	56	28	20
4	e20	e3.3	71	583	375	188	244	260	79	56	28	21
5	e23	e110	57	469	335	184	230	233	76	55	28	21
6	e6.8	e350	39	282	307	153	222	215	77	51	28	19
7	e5.6	e100	30	916	288	133	254	201	73	49	28	17
8	e5.1	e45	25	1320	284	223	234	187	71	48	27	17
9	e4.7	e105	23	1630	261	4050	208	175	69	47	26	16
10	e4.5	e110	22	5130	227	8600	206	167	67	47	26	17
11	e4.4	e40	21	1370	213	2760	189	159	67	45	27	17
12	e4.3	e23	63	931	204	1260	179	160	67	45	26	17
13	e4.2	e17	80	752	195	760	189	200	66	48	26	17
14	e4.1	e15	100	1810	185	581	167	183	66	46	25	16
15	e4.1	e80	156	1680	168	414	171	196	73	43	24	16
16	e4.0	e56	69	973	150	335	178	211	106	46	24	16
17	e3.9	e36	43	630	145	292	158	177	74	43	24	16
18	e3.9	e37	33	462	144	263	157	160	67	43	24	16
19	e3.8	e26	26	372	141	243	146	146	68	44	24	15
20	e3.8	e20	21	420	134	535	154	140	66	45	23	15
21	e3.7	e17	21	657	127	616	143	134	63	45	23	15
22	e3.7	e15	20	1230	123	1900	134	129	61	41	23	15
23	e3.6	e14	21	2890	119	2060	129	124	61	40	22	15
24	e3.6	16	e74	1650	117	1140	124	119	60	40	22	15
25	e3.5	69	e48	1020	112	845	119	115	60	39	22	17
26	e3.5	102	27	785	108	691	116	108	62	38	22	14
27	e3.5	59	20	2370	106	585	160	102	58	37	21	14
28	e3.4	45	21	1830	106	501	176	99	57	36	21	15
29	e3.4	37	19	1100	---	427	585	96	57	34	20	15
30	e3.4	29	19	870	---	386	439	92	57	33	20	15
31	e3.4	---	19	682	---	346	---	87	---	32	20	---
TOTAL	150.51	1586.2	1251	35107	6182	30978	6280	5536	2080	1386	760	500
MEAN	4.86	52.9	40.4	1132	221	999	209	179	69.3	44.7	24.5	16.7
MAX	23	350	156	5130	567	8600	585	456	106	57	29	21
MIN	.32	3.3	19	17	106	104	116	87	57	32	20	14
AC-FT	299	3150	2480	69630	12260	61440	12460	10980	4130	2750	1510	992

e Estimated.

11161000 SAN LORENZO RIVER AT SANTA CRUZ, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	12.5	22.7	156	270	285	222	134	60.5	28.1	14.6	8.33	8.78
MAX	28.9	52.9	1366	1132	1254	999	1017	179	70.0	45.0	30.0	40.4
(WY)	1990	1995	1956	1995	1958	1995	1958	1995	1958	1958	1958	1959
MIN	1.83	3.45	7.30	5.60	15.3	16.8	15.9	13.7	4.64	1.48	.27	.17
(WY)	1989	1991	1991	1991	1991	1988	1990	1988	1988	1988	1960	1960

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1953 - 1995	
ANNUAL TOTAL	13779.35		91796.71			
ANNUAL MEAN	37.8		251		101	
HIGHEST ANNUAL MEAN					293	1958
LOWEST ANNUAL MEAN					21.5	1988
HIGHEST DAILY MEAN	1180	Feb 20	8600	Mar 10	17400	Dec 23 1955
LOWEST DAILY MEAN	.32	Oct 2	.32	Oct 2	.00	Sep 3 1955
ANNUAL SEVEN-DAY MINIMUM	.80	Aug 28	3.3	Oct 29	.00	Sep 20 1960
INSTANTANEOUS PEAK FLOW			14400	Mar 10	30400	Dec 23 1955
INSTANTANEOUS PEAK STAGE			16.63	Mar 10	23.10	Dec 23 1955
ANNUAL RUNOFF (AC-FT)	27330		182100		73220	
10 PERCENT EXCEEDS	73		582		201	
50 PERCENT EXCEEDS	16		66		21	
90 PERCENT EXCEEDS	1.1		15		2.2	

11161300 CARBONERA CREEK AT SCOTTS VALLEY, CA

LOCATION.--Lat 37°03'02", long 122°00'45" in San Augustin Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank at east city limits of Scotts Valley, 1.1 mi upstream from Glen Canyon Road, 3.3 mi east of Felton, and 4.1 mi upstream from Branciforte Creek.

DRAINAGE AREA.--3.60 mi^2.

PERIOD OF RECORD.--February 1985 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 550 ft above sea level, from topographic map.

REMARKS.--Records poor. No regulation or diversion upstream from station. Low flows affected by return flow from urban irrigation and by periodic flushing of upstream county well.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,090 ft^3/s, Feb. 14, 1992, gage height, 10.05 ft, from rating curve extended above 330 ft^3/s on basis of slope-area measurement at gage height 9.48 ft; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2100	*838	9.05	Mar. 10	1030	833	*9.09

No flow Oct. 16, 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.02	1.5	1.4	e11	e2.0	3.4	e14	1.8	.38	.21	.23
2	.01	.05	1.5	3.9	e9.0	e2.7	3.1	e8.4	1.5	.37	.21	.29
3	.20	.04	3.3	19	e8.0	e5.0	3.3	e6.2	1.5	.40	.43	.25
4	19	.04	11	55	e7.0	e3.8	3.0	e5.9	1.3	.42	.35	.22
5	1.6	28	3.2	13	e6.0	e3.1	2.8	5.5	1.1	.39	.34	.35
6	.30	16	2.7	13	e5.0	e2.6	2.6	4.8	1.1	.38	.39	.20
7	.24	3.4	2.2	73	e4.5	e2.0	5.6	5.1	1.1	.47	.34	.15
8	.08	1.3	1.4	62	9.8	e20	2.6	4.6	1.0	.36	.36	.22
9	.04	14	1.4	167	e8.8	e224	2.2	4.6	1.1	.38	.39	.30
10	.06	3.6	1.9	141	e7.3	301	2.1	4.0	.78	.36	.42	.43
11	.07	1.9	1.9	30	e6.0	61	2.0	3.7	.65	.48	.40	.72
12	.10	1.4	15	40	e5.4	22	2.0	4.8	.52	.46	.41	.48
13	.06	1.4	5.1	47	e4.9	12	3.4	5.2	.63	.46	.43	.16
14	.05	.90	19	82	e4.6	10	1.9	4.4	.78	.68	.41	.30
15	.06	6.1	5.3	59	e4.0	7.6	3.4	3.9	1.5	.46	.46	.36
16	.00	1.5	3.2	27	e3.7	6.3	2.0	3.4	4.5	.42	.37	.18
17	.00	2.9	2.4	17	e3.4	5.4	1.9	3.1	.86	.48	.28	.18
18	.03	1.6	2.0	12	e3.1	5.0	2.1	2.8	.72	.55	.27	.16
19	.04	1.4	1.7	8.5	e2.9	4.5	1.7	2.7	.58	.45	.29	.10
20	.06	1.3	1.5	e15	e2.7	18	3.2	2.5	.54	.39	.40	.24
21	.05	1.2	1.5	e25	e2.5	11	2.5	2.4	.50	.45	.34	.15
22	.04	1.1	1.3	e60	e2.4	63	e2.0	2.3	.47	.43	.36	.18
23	.03	1.1	1.2	e50	e2.2	33	e1.8	2.2	.42	.39	.37	.17
24	.06	1.4	10	e32	e2.1	15	e1.7	2.3	.44	.34	.36	.16
25	.06	14	2.2	e28	e2.0	10	e1.6	2.1	.40	.33	.36	.15
26	.08	5.3	1.7	e35	e2.0	7.5	e1.6	2.0	.37	.27	.46	.18
27	.06	2.8	1.7	e50	e1.9	6.3	e6.3	2.0	.40	.28	.84	.38
28	.06	2.3	1.7	e40	e1.8	5.6	e5.4	2.0	.39	.29	.46	.17
29	.05	1.8	1.4	e30	---	5.3	e24	1.9	.43	.26	.34	.16
30	.04	1.7	1.3	e20	---	4.7	e9.8	1.7	.38	.24	.20	.14
31	.02	---	1.3	e15	---	4.0	---	1.6	---	.21	.20	---
TOTAL	22.57	119.55	112.5	1270.8	134.0	883.4	111.0	122.1	27.76	12.23	11.45	7.36
MEAN	.73	3.98	3.63	41.0	4.79	28.5	3.70	3.94	.93	.39	.37	.25
MAX	19	28	19	167	11	301	24	14	4.5	.68	.84	.72
MIN	.00	.02	1.2	1.4	1.8	2.0	1.6	1.6	.37	.21	.20	.10
AC-FT	45	237	223	2520	266	1750	220	242	55	24	23	15

e Estimated.

11161300 CARBONERA CREEK AT SCOTTS VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.66	1.76	4.44	11.5	14.8	11.8	1.38	1.02	.24	.081	.14	.17
MAX	3.01	4.86	10.9	41.0	63.9	32.0	3.70	3.94	.93	.39	.91	.68
(WY)	1990	1989	1989	1995	1986	1986	1995	1995	1995	1995	1989	1989
MIN	.039	.002	.51	.35	.95	.25	.41	.099	.002	.005	.000	.000
(WY)	1987	1987	1987	1991	1988	1988	1987	1987	1987	1990	1985	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1985 - 1995	
ANNUAL TOTAL	758.80		2834.72			
ANNUAL MEAN	2.08		7.77		3.99	
HIGHEST ANNUAL MEAN					10.1	1986
LOWEST ANNUAL MEAN					1.33	1990
HIGHEST DAILY MEAN	79	Feb 19	301	Mar 10	352	Feb 17 1986
LOWEST DAILY MEAN	.00	Jul 25	.00	Oct 16	.00	Jun 28 1985
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 2	.03	Oct 16	.00	Jun 28 1985
INSTANTANEOUS PEAK FLOW			838	Jan 9	1090	Feb 14 1992
INSTANTANEOUS PEAK STAGE			9.09	Mar 10	10.05	Feb 14 1992
ANNUAL RUNOFF (AC-FT)	1510		5620		2890	
10 PERCENT EXCEEDS	3.9		15		5.5	
50 PERCENT EXCEEDS	.36		1.7		.31	
90 PERCENT EXCEEDS	.00		.16		.00	

11162500 PESCADERO CREEK NEAR PESCADERO, CA

LOCATION.--Lat 37°15'39", long 122°19'40", in SW 1/4 sec.5, T.8 S., R.4 W., San Mateo County, Hydrologic Unit 18050006, on left bank at downstream side of highway bridge, 3.0 mi east of Pescadero, and 5.3 mi upstream from mouth.

DRAINAGE AREA.--45.9 mi^2.

PERIOD OF RECORD.--April 1951 to current year.
CHEMICAL DATA: Water year 1977.
WATER TEMPERATURE: Water years 1965-80.
SEDIMENT DATA: Water years 1971, 1973, 1980, 1986, 1990-93.

REVISED RECORDS.--WSP 1445: 1952-53(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 62.3 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Minor regulation from swimming pools in San Mateo County Memorial Park and Portola State Park during summer months. Small diversions upstream from station by pumping.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft^3/s, Dec. 23, 1955, gage height, 21.27 ft, from rating curve extended above 2,700 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2315	*6,210	*17.31	Mar. 10	1645	4,030	14.10
Jan. 23	0500	1,130	8.02	Mar. 22	2300	1,890	9.92
Jan. 27	1415	1,110	7.95				

Minimum daily, 0.60 ft^3/s, Oct. 13-27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	e1.2	5.5	5.8	138	27	e95	117	32	16	12	6.1
2	1.3	e1.2	5.4	5.8	116	36	e87	123	32	15	11	6.1
3	1.3	e.90	5.5	33	100	65	e80	97	32	15	9.9	6.1
4	1.4	e.80	8.2	46	90	62	e76	84	29	15	9.5	6.1
5	1.7	e4.0	9.3	86	83	56	e71	74	27	15	9.0	6.1
6	e1.3	51	7.6	64	77	47	e70	69	25	15	8.9	5.9
7	e1.0	21	6.8	254	69	42	e86	68	25	15	8.6	5.7
8	e.90	7.6	6.1	240	65	48	e85	65	24	15	8.6	5.6
9	e.80	7.2	5.6	1030	60	1230	e80	63	23	14	8.5	5.6
10	e.70	14	5.3	1870	53	2070	e73	61	22	14	8.3	5.5
11	e.65	7.9	5.4	568	51	1280	e58	58	22	13	8.3	5.3
12	e.65	5.4	11	282	48	554	e56	56	20	13	8.1	5.3
13	e.60	4.4	20	216	46	357	59	69	20	14	7.9	5.3
14	e.60	3.8	19	528	45	259	56	72	20	13	7.9	5.3
15	e.60	4.9	37	603	46	252	56	81	21	13	7.6	5.3
16	e.60	8.7	22	414	46	188	59	73	28	13	7.6	5.4
17	e.60	6.9	15	255	44	150	55	64	24	13	7.6	5.3
18	e.60	8.7	12	175	42	132	57	60	22	12	7.6	5.3
19	e.60	6.3	9.7	131	37	121	55	56	20	13	7.6	5.3
20	e.60	5.2	8.0	119	35	338	56	53	20	12	7.6	4.9
21	e.60	4.4	6.9	202	33	422	55	52	19	12	7.3	4.8
22	e.60	4.0	6.2	221	31	922	53	50	18	14	7.1	4.7
23	e.60	3.7	5.6	775	30	1020	52	49	17	13	7.0	4.6
24	e.60	3.6	7.9	472	29	492	51	44	17	12	6.6	4.5
25	e.60	9.9	10	339	29	314	51	44	17	13	6.4	4.3
26	e.60	25	7.2	242	29	e215	51	42	16	12	6.4	4.8
27	e.80	16	6.2	783	28	e185	56	40	16	13	6.4	4.8
28	e1.1	10	6.4	581	27	157	60	38	16	12	6.4	4.7
29	e1.2	7.7	6.2	314	---	132	85	37	16	12	6.4	4.6
30	e.90	6.2	5.7	220	---	e115	109	36	16	12	6.4	5.2
31	e.90	---	5.6	170	---	e105	---	33	---	12	6.4	---
TOTAL	25.77	261.60	298.3	11244.6	1527	11393	1993	1928	656	415	244.9	158.5
MEAN	.83	8.72	9.62	363	54.5	368	66.4	62.2	21.9	13.4	7.90	5.28
MAX	1.7	51	37	1870	138	2070	109	123	32	16	12	6.1
MIN	.60	.80	5.3	5.8	27	27	51	33	16	12	6.4	4.3
AC-FT	51	519	592	22300	3030	22600	3950	3820	1300	823	486	314

e Estimated.

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.56	13.5	57.1	116	114	95.6	55.4	18.5	8.47	4.79	3.30	2.54
MAX	92.8	85.9	469	418	476	540	398	93.8	28.1	14.8	10.5	7.79
(WY)	1963	1984	1956	1952	1983	1983	1958	1983	1983	1983	1969	1983
MIN	.38	1.61	2.30	2.75	2.92	4.25	1.93	2.00	.78	.20	.012	.083
(WY)	1962	1992	1977	1991	1977	1988	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	4447.67		30145.67			
ANNUAL MEAN	12.2		82.6		40.9	
HIGHEST ANNUAL MEAN					164	1983
LOWEST ANNUAL MEAN					1.72	1977
HIGHEST DAILY MEAN	426	Feb 20	2070	Mar 10	5560	Dec 23 1955
LOWEST DAILY MEAN	.41	Sep 16	.60	Oct 13	.00	Sep 9 1961
ANNUAL SEVEN-DAY MINIMUM	.45	Sep 15	.60	Oct 13	.00	Aug 17 1977
INSTANTANEOUS PEAK FLOW			6210	Jan 9	9420	Dec 23 1955
INSTANTANEOUS PEAK STAGE			17.31	Jan 9	21.27	Dec 23 1955
ANNUAL RUNOFF (AC-FT)	8820		59790		29630	
10 PERCENT EXCEEDS	21		186		84	
50 PERCENT EXCEEDS	5.0		16		6.6	
90 PERCENT EXCEEDS	.75		3.7		1.3	

11162630 PILARCITOS CREEK AT HALF MOON BAY, CA

LOCATION.--Lat 37°28'00", long 122°25'59", on north boundary of Miramontes Grant, San Mateo County, Hydrologic Unit 18050006, on left bank 50 ft downstream from State Highway 1, 0.3 mi northwest of town of Half Moon Bay, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--27.1 mi^2.

PERIOD OF RECORD.--July 1966 to current year.
SEDIMENT DATA: June 1990.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 31.51 ft above sea level. Prior to Nov. 17, 1983, at site 800 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges and discharges less than 1 ft^3/s, which are poor. Flow slightly regulated by storage in Pilarcitos Lake 10 mi upstream, capacity, 3,100 acre-ft. Water is diverted to city of San Francisco water system; small diversions for irrigation upstream from station by pumping.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft^3/s, Jan. 4, 1982, gage height, 13.08 ft, site and datum then in use, from rating curve extended above 1,000 ft^3/s on basis of contracted-opening measurement of peak flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 9	1200	261	3.67	Mar. 9	1130	694	6.59
Jan. 9	2045	*908	*7.69	Mar. 20	1000	502	5.53
Jan. 27	1645	860	7.45				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	2.3	7.6	58	10	29	23	9.1	2.2	.97	1.1
2	.00	.00	2.0	9.5	46	25	27	23	9.0	2.9	1.0	1.1
3	.00	.00	2.0	39	37	43	25	19	9.5	2.2	.86	.91
4	.00	.00	4.5	26	32	e25	24	19	9.7	2.4	.83	.87
5	.00	4.3	2.8	40	28	e20	23	18	8.9	2.2	1.2	.69
6	.00	20	4.0	31	25	e17	23	17	7.9	2.4	1.2	.51
7	.00	5.0	4.0	e64	23	16	29	17	7.1	2.2	1.3	.50
8	.00	2.0	3.7	43	25	24	24	16	6.3	1.7	1.2	.45
9	.00	42	3.2	206	21	246	21	15	6.0	1.9	.88	.45
10	.00	19	3.5	281	18	275	19	16	6.1	1.9	.86	.59
11	.00	7.2	4.6	102	16	138	18	14	6.1	1.5	.98	.57
12	.00	5.4	17	111	16	75	18	12	5.3	1.6	.93	.43
13	.00	4.1	9.5	88	15	59	23	17	4.1	1.3	.92	.35
14	.00	3.5	24	e120	14	57	17	20	4.2	1.3	.83	.31
15	.00	11	14	e100	12	49	22	16	5.8	1.0	.76	.72
16	.00	3.9	8.3	e90	11	37	19	13	9.5	1.3	.72	.95
17	.00	2.9	6.7	e55	10	31	17	12	6.1	1.3	.64	.52
18	.00	2.1	5.9	52	9.8	32	19	16	6.3	1.4	.76	.76
19	.00	1.9	4.9	43	9.5	24	15	17	4.2	1.3	.68	.42
20	.00	1.2	4.2	e60	8.8	202	18	16	3.3	1.5	.79	.35
21	.00	1.2	3.6	e70	8.3	e150	14	16	3.3	1.5	.88	.47
22	.00	1.1	3.2	e90	8.2	310	13	15	2.9	1.4	.89	.55
23	.00	1.0	2.7	103	7.8	235	13	15	2.7	1.5	.83	.68
24	.00	1.2	8.9	97	7.9	140	12	13	2.4	1.7	1.1	.59
25	.00	7.5	4.6	53	7.9	99	12	13	2.7	1.2	.87	.57
26	.00	10	3.6	79	7.5	75	11	12	2.3	1.4	.99	.48
27	.00	5.2	3.6	568	7.1	60	11	11	1.9	1.4	.85	.41
28	.00	4.2	6.0	286	9.2	51	11	11	2.6	1.4	1.0	.29
29	.00	3.4	3.6	146	---	42	12	11	2.7	1.5	.87	.28
30	.00	3.1	3.2	107	---	36	12	9.9	2.6	1.4	1.0	.28
31	.00	---	7.4	78	---	32	---	9.2	---	1.1	1.1	---
TOTAL	0.00	173.40	181.5	3245.1	499.0	2635	551	472.1	160.6	51.0	28.69	17.15
MEAN	.000	5.78	5.85	105	17.8	85.0	18.4	15.2	5.35	1.65	.93	.57
MAX	.00	42	24	568	58	310	29	23	9.7	2.9	1.3	1.1
MIN	.00	.00	2.0	7.6	7.1	10	11	9.2	1.9	1.0	.64	.28
AC-FT	.00	344	360	6440	990	5230	1090	936	319	101	57	34

e Estimated.

11162630 PILARCITOS CREEK AT HALF MOON BAY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.15	5.63	15.3	41.5	40.1	38.3	18.7	5.70	2.00	.87	.52	.32
MAX	4.44	32.5	92.1	164	234	278	127	37.2	8.22	3.21	2.01	1.26
(WY)	1983	1983	1971	1982	1983	1983	1982	1983	1967	1967	1982	1983
MIN	.000	.000	.59	.48	.66	1.44	.073	.009	.000	.000	.000	.000
(WY)	1967	1991	1991	1991	1977	1988	1977	1977	1972	1966	1966	1966

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	1063.70		8014.54			
ANNUAL MEAN	2.91		22.0		14.1	
HIGHEST ANNUAL MEAN					73.9	1983
LOWEST ANNUAL MEAN					.51	1977
HIGHEST DAILY MEAN	60	Feb 20	568	Jan 27	2150	Jan 4 1982
LOWEST DAILY MEAN	.00	Jun 22	.00	Oct 1	.00	Jul 1 1966
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 22	.00	Oct 1	.00	Jul 1 1966
INSTANTANEOUS PEAK FLOW			908	Jan 9	4750	Jan 4 1982
INSTANTANEOUS PEAK STAGE			7.69	Jan 9	13.08	Jan 4 1982
ANNUAL RUNOFF (AC-FT)	2110		15900		10190	
10 PERCENT EXCEEDS	7.3		54		28	
50 PERCENT EXCEEDS	1.2		5.8		1.7	
90 PERCENT EXCEEDS	.00		.28		.00	

11162690 SAN FRANCISCO BAY AT PRESIDIO MILITARY RESERVATION, CA

WATER-QUALITY RECORDS

LOCATION.--Lat 37°48'24", long 122°27'54", in NE 1/4 NE 1/4 sec.36, T.1 S., R.6 W., in San Miguel Grant, San Francisco County, Hydrologic Unit 18050002, at end of Coast Guard dock at Presidio Military Reservation.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1990 to current year.
WATER TEMPERATURE: October 1990 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1990.

REMARKS.--Interruptions in record were due to malfunction of the sensing and/or recording instruments. The probe is set at 4.0 ft below Mean Lower Low Water (MLLW).

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 50,900 microsiemens, May 26, June 30, and July 1, 1991; minimum recorded, 9,670 microsiemens, Mar. 24, 1995.
WATER TEMPERATURE: Maximum recorded, 18.5°C, several days in July 1992, June 12, Aug. 11, 26, 27, 1993; minimum recorded 8.0°C, several days during December 1990 and January 1991.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 50,200 microsiemens, Oct. 16; minimum recorded, 9,670 microsiemens, Mar. 24.
WATER TEMPERATURE: Maximum recorded, 18.5°C, July 21-23; minimum recorded, 9.5°C, Dec. 22, 23, 25.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	49500	48100	49200	48200	48700	46700	48500	46100	41600	22900	43700	36800
2	49300	48100	49300	48100	48600	47000	48700	45900	39300	22500	43300	38000
3	49300	48100	49400	48100	---	---	48500	46500	39000	21900	43200	37800
4	49300	47800	49600	48200	48900	47000	48200	46600	41900	21400	43600	37000
5	49200	48100	49200	46100	48800	47100	48000	46500	41000	18200	43000	35100
6	49200	48000	49000	45600	48700	45600	48000	46100	40900	16000	43800	33600
7	49200	47900	49100	46400	48500	47000	48200	46700	35900	13400	43900	29900
8	49100	48000	49000	47100	48500	46800	48600	47000	32600	13500	43900	29500
9	49400	48100	48800	47500	48400	46400	48900	46600	37700	14700	45700	35100
10	49400	48100	48800	47100	48300	46500	48800	45000	42200	19500	45800	31900
11	49300	48100	48600	47500	48600	46600	47900	41000	41700	24300	41000	27100
12	49600	47800	48500	46900	48400	46600	46800	34200	43100	28300	42000	20500
13	49900	48300	48500	47000	48500	46500	46100	33400	42400	30900	40300	18300
14	50000	48600	48300	46900	48300	46500	46700	25200	41400	29200	41400	17600
15	49900	48500	48200	47100	48600	46300	44900	21800	43900	27900	38900	16200
16	50200	48700	48200	46900	48500	46400	42500	20500	44200	28500	38300	16200
17	50000	48900	48400	46900	48600	46300	42100	21600	43400	32000	38400	15100
18	50000	49000	48300	46900	48800	46400	40900	21000	42400	28100	38500	14300
19	50000	48900	48900	47000	48700	46100	40000	22000	42500	30400	35800	13700
20	49900	48900	48500	46900	49000	46200	42400	23700	41700	30700	38100	13900
21	49800	48800	48500	46900	48900	46200	42100	22800	42600	30600	36700	13600
22	49800	48800	48500	46700	48600	46200	42500	23900	44000	32500	36800	14400
23	49800	48800	48600	46700	48800	46100	42200	24200	43500	31700	27900	11500
24	49800	48600	48700	46700	48500	46000	43600	19800	43500	32500	32100	9670
25	49700	48600	48500	47100	48400	45800	44100	21000	43800	32800	31700	10100
26	49500	48500	48400	47000	48700	46200	43800	21000	44400	35000	35900	12600
27	49500	48100	48500	47000	48700	46200	42400	26200	43800	35800	38000	13900
28	49600	47800	48500	46800	48700	46300	43100	26600	43800	35900	37600	16400
29	49400	47300	48400	46700	48900	46400	43200	24900	---	---	38400	19200
30	49400	48200	48500	46900	48700	46100	42100	23700	---	---	38900	21900
31	49400	48300	---	---	48600	46300	42200	23200	---	---	39500	21300
MONTH	50200	47300	49600	45600	---	---	48900	19800	44400	13400	45800	9670

11162690 SAN FRANCISCO BAY AT PRESIDIO MILITARY RESERVATION, CA--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	40000	19800	46600	34900	44900	32300	47300	40200	48200	42200	49000	45800
2	43100	21400	46300	30900	44700	32100	47700	39000	48500	42800	48600	45200
3	43700	19400	45900	29000	45200	30000	47700	38100	48200	43500	48400	45000
4	40200	19600	45500	25800	45000	29000	47800	37700	48400	43900	48200	44800
5	41100	19900	42800	25800	44900	30400	47500	37900	47700	43400	48300	44800
6	37900	21000	43200	19500	45000	28900	47400	39700	48400	43100	48300	44900
7	36400	22200	45500	19300	46700	28800	47200	38400	48400	43000	48500	45000
8	38400	16800	44900	16100	46200	32200	47800	38400	48300	43200	48100	45000
9	39400	19800	44100	19700	45900	35000	47800	39900	48700	43500	47700	45200
10	43600	20500	44800	20900	45800	36100	47300	40800	48600	43900	47300	45300
11	44100	21900	45500	23300	45900	36900	47300	41400	48300	44200	47500	45100
12	44500	26400	44900	29100	46000	37500	47000	41600	48500	44100	48500	45600
13	44800	29800	44200	29700	46300	37700	48000	41800	48300	44300	48700	45600
14	44000	31000	44500	28700	45800	38000	47800	41500	48700	45000	48600	44400
15	44800	30100	46300	31100	45300	38000	47800	41600	49300	46000	48600	44100
16	44900	29400	46000	29700	45100	37100	47900	41900	49200	46300	49000	43900
17	44500	31800	45900	30800	44900	35200	47700	41700	48900	46000	49100	41300
18	44300	29300	44700	30200	45000	34400	48000	40900	49200	44300	49300	41000
19	44000	29400	45100	29600	45400	33900	47300	37900	49700	43600	49100	41300
20	45500	30800	45100	28100	46300	31700	47400	38300	49400	43700	48700	42000
21	45300	27200	44800	26700	45800	33500	47800	36300	---	---	48200	42700
22	45800	25200	44300	27900	46800	32400	47300	36900	49100	45000	48200	43700
23	45700	25900	45200	29600	47400	35700	47200	37500	49100	45300	48000	44200
24	46200	29500	46200	32600	47300	35200	47500	39500	49000	45700	47500	44200
25	46100	31900	46000	31300	47600	35900	47700	39100	48700	45500	47000	43800
26	45500	34600	45500	33100	47700	38800	48000	40500	48700	45800	47800	43700
27	45700	36300	45000	30900	47400	39500	48400	41000	48700	45900	47900	43800
28	45100	36300	45100	30700	47900	38900	48400	41400	48600	45800	47700	43100
29	45100	37100	45100	30200	47800	38000	47800	41600	48500	45900	48600	43600
30	44800	32600	45000	29200	47400	39400	48100	41900	49000	45900	48500	43100
31	---	---	44200	31300	---	---	48200	41600	49000	45900	---	---
MONTH	46200	16800	46600	16100	47900	28800	48400	36300	---	---	49300	41000

11162690 SAN FRANCISCO BAY AT PRESIDIO MILITARY RESERVATION, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.5	15.5	14.5	14.0	10.5	10.5	10.5	10.0	13.0	12.0	13.0	13.0
2	17.0	16.0	14.5	13.5	10.5	10.5	10.5	10.0	13.0	12.0	13.0	13.0
3	16.5	16.0	14.5	13.0	---	---	10.5	10.0	13.0	12.5	13.0	13.0
4	16.5	16.0	14.0	13.0	10.5	10.5	10.5	10.0	13.0	12.5	13.5	13.0
5	17.0	16.0	13.5	12.5	10.5	10.5	10.5	10.0	13.0	12.5	13.0	13.0
6	17.0	16.0	13.5	12.5	10.5	10.5	10.5	10.0	13.0	12.5	13.5	12.5
7	17.0	16.0	13.5	12.5	10.5	10.5	11.0	10.0	12.5	12.0	13.5	12.5
8	17.0	16.0	13.5	12.5	10.5	10.0	11.0	10.5	13.0	12.0	13.0	13.0
9	17.0	16.0	13.0	12.0	10.5	10.0	11.5	10.5	13.0	12.0	13.5	13.0
10	17.0	16.0	12.5	12.0	10.5	10.0	12.0	11.0	13.0	12.0	13.5	13.0
11	17.0	16.0	12.5	12.0	10.5	10.0	12.0	11.0	13.0	12.5	13.5	13.5
12	16.5	16.0	12.5	12.0	10.5	10.0	12.0	11.0	13.0	12.5	13.5	13.0
13	16.5	15.5	12.5	12.0	10.5	10.0	12.0	11.0	13.0	12.5	13.5	13.0
14	16.5	14.5	12.5	12.0	10.5	10.0	12.5	11.5	13.0	12.0	13.5	13.0
15	16.0	14.0	12.0	12.0	10.5	10.0	12.0	11.0	13.0	12.0	14.0	12.5
16	15.5	13.5	12.0	11.5	10.5	10.0	12.0	11.0	13.0	12.0	14.0	12.5
17	15.0	13.5	12.0	11.5	10.5	10.0	12.0	11.0	13.0	12.0	13.5	13.0
18	15.0	14.0	11.5	11.0	10.5	10.0	12.0	11.0	13.0	12.0	13.5	13.0
19	14.5	14.0	11.5	11.0	10.5	10.0	12.0	11.0	13.5	12.5	13.5	13.0
20	15.0	14.0	11.5	11.0	10.5	10.0	12.0	11.0	13.5	12.5	13.5	13.0
21	14.5	13.5	11.0	11.0	10.5	10.0	12.0	11.0	13.5	12.5	13.5	12.5
22	14.5	13.5	11.0	11.0	10.5	9.5	12.0	11.0	13.0	12.5	13.5	12.0
23	14.5	13.5	11.0	10.5	10.5	9.5	12.0	11.0	13.0	12.5	13.0	12.0
24	14.5	13.5	11.0	10.5	10.5	10.0	12.0	11.0	13.0	12.5	13.0	11.5
25	14.5	13.5	11.0	10.5	10.5	9.5	12.0	11.0	13.5	12.5	13.0	11.5
26	14.5	13.5	11.0	10.5	10.5	10.0	12.0	11.0	13.0	12.5	13.0	11.5
27	14.5	13.5	10.5	10.5	10.5	10.0	12.0	11.5	13.0	13.0	13.5	12.0
28	14.5	13.5	11.0	10.5	10.5	10.0	12.5	11.5	13.0	13.0	13.5	12.0
29	14.5	14.0	11.0	10.5	10.5	10.0	12.5	11.5	---	---	13.5	12.5
30	14.5	13.5	11.0	10.0	10.5	10.0	12.5	12.0	---	---	14.0	13.0
31	14.5	13.5	---	---	10.5	10.0	12.5	12.0	---	---	13.5	13.0
MONTH	17.0	13.5	14.5	10.0	---	---	12.5	10.0	13.5	12.0	14.0	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.0	13.0	13.5	11.5	15.0	11.0	16.0	13.5	17.5	14.0	16.5	14.0
2	14.0	13.0	14.0	11.5	15.0	11.0	16.5	13.5	17.0	14.0	16.5	14.0
3	14.0	13.0	15.0	12.0	15.0	11.0	16.5	14.0	16.5	14.5	16.5	14.5
4	14.0	13.0	15.0	12.0	15.5	11.0	17.0	14.0	16.5	14.0	17.0	14.5
5	14.5	13.0	15.0	12.5	15.5	11.0	17.0	14.5	17.0	14.5	17.0	14.5
6	15.0	13.5	15.0	12.0	15.5	11.0	17.0	14.0	17.5	14.5	16.5	14.0
7	15.0	13.5	15.0	11.0	15.5	10.5	17.0	14.5	17.0	14.5	17.0	14.0
8	14.5	13.5	15.0	11.0	14.5	10.5	17.5	13.5	17.0	14.0	16.5	14.0
9	14.5	13.5	15.0	11.5	14.0	10.5	17.0	13.5	17.0	14.0	16.5	14.5
10	14.5	12.5	15.0	11.0	14.0	11.0	17.0	14.0	17.0	14.5	16.0	15.0
11	14.5	12.5	14.5	11.0	14.0	11.0	16.5	14.0	17.0	14.5	16.5	15.0
12	14.5	12.0	13.5	11.0	14.0	11.0	17.0	14.0	17.0	14.0	16.5	15.0
13	14.0	12.0	13.0	11.0	14.5	11.0	17.0	14.0	17.0	14.0	16.5	14.5
14	13.5	11.5	13.5	11.0	14.5	11.5	17.5	14.0	17.0	14.0	16.5	14.5
15	13.5	11.0	13.5	10.5	14.5	11.5	18.0	14.0	16.0	14.5	17.0	14.5
16	13.0	11.0	13.5	10.5	14.5	12.0	17.5	13.5	16.0	14.5	17.0	14.0
17	13.0	11.0	13.5	11.0	15.0	11.5	17.0	14.5	17.0	14.5	17.5	14.0
18	13.0	10.5	14.0	11.0	15.5	12.0	17.5	14.5	17.0	14.5	17.5	13.5
19	13.0	10.5	14.5	11.5	16.0	11.5	18.0	15.0	17.5	14.0	17.5	13.5
20	13.0	10.0	14.5	11.5	16.5	11.0	18.0	15.0	17.5	14.0	17.5	14.0
21	13.0	10.0	14.5	11.5	16.5	11.0	18.5	15.0	17.0	14.0	17.0	14.5
22	13.5	10.0	14.5	11.5	16.0	11.0	18.5	15.0	17.0	15.0	16.5	14.5
23	14.0	10.0	14.5	11.0	15.5	11.0	18.5	15.0	17.0	15.0	16.5	15.0
24	13.0	10.0	14.5	11.0	16.0	11.0	17.5	14.5	16.5	15.0	16.5	15.0
25	12.5	10.0	14.0	11.0	16.0	11.0	18.0	14.5	17.0	15.0	16.5	15.5
26	12.5	10.5	14.0	11.0	15.0	11.0	18.0	14.0	17.0	15.0	17.0	15.0
27	12.5	10.0	14.0	11.5	15.0	11.5	18.0	13.5	17.0	15.0	17.0	15.0
28	12.5	10.5	14.5	11.0	16.0	12.0	17.5	13.5	16.5	15.0	17.0	15.0
29	12.5	11.0	14.5	11.0	16.0	12.5	17.5	14.0	16.5	15.0	17.0	14.5
30	13.5	11.5	15.0	11.0	16.0	13.0	17.5	14.0	16.5	14.5	17.0	14.5
31	---	---	15.0	11.0	---	---	18.0	13.5	16.5	14.0	---	---
MONTH	15.0	10.0	15.0	10.5	16.5	10.5	18.5	13.5	17.5	14.0	17.5	13.5

11162700 SAN FRANCISCO BAY AT PIER 24, AT SAN FRANCISCO, CA

WATER-QUALITY RECORDS

LOCATION.--Lat 37°47'27", long 122°23'05", in SE 1/4 NW 1/4 sec.2, T.2 S., R.5 W., in San Miguel Grant, San Francisco County, Hydrologic Unit 18050002, at end of Pier 24 and directly under the west end of the San Francisco-Oakland Bay Bridge.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1989 to current year.
WATER TEMPERATURE: October 1989 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1989.

REMARKS.--Interruptions in record were due to malfunction of the sensing and/or recording instruments. Upper probe is set at 8.8 ft below Mean Lower Low Water (MLLW). Lower probe is set at 39.3 ft below MLLW.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 50,700 microsiemens, Aug. 13, 1991; minimum recorded, 6,010 microsiemens, Mar. 24, 1995.
(Lower probe) Maximum recorded, 50,300 microsiemens, Sept. 6, 9-12, 1991; minimum recorded, 3,040 microsiemens, Mar. 18, 1995.
WATER TEMPERATURE: (Upper probe) Maximum recorded, 20.5°C, July 23, 1992; minimum recorded, 7.5°C, Dec. 26, 30, 1990, Jan. 1-3, 1991.
(Lower probe) Maximum recorded, 20.0°C, on several days in July 1992; minimum recorded, 7.5°C, Jan. 2, 3, 1991.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 50,100 microsiemens, Nov. 4; minimum recorded, 6,010 microsiemens, Mar. 24.
(Lower probe) Maximum recorded, 50,000 microsiemens, Nov. 2-4; minimum recorded, 3,040 microsiemens, Mar. 18.
WATER TEMPERATURE: (Upper probe) Maximum recorded, 19.5°C, July 30; minimum recorded, 9.5°C, several days in December.
(Lower probe) Maximum recorded, 19.0°C, July 30, 31, Aug. 1, 8, 10, 11, 19; minimum recorded, 9.5°C, several days in December.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	48100	47400	49800	49000	47800	46200	48300	45200	35800	14900	40200	32600
2	48000	47400	49900	49100	47900	46100	48100	45200	35200	16000	41000	33800
3	48100	47300	49900	49200	48000	46300	48100	45300	34600	16100	41000	32500
4	48100	46100	50100	49300	48100	46300	48000	45500	35300	16900	38800	31400
5	47900	47000	49900	47600	47900	46200	47800	45500	31800	17300	39900	28500
6	48000	47200	49500	46200	47800	44500	47500	45600	32600	16400	39900	26100
7	48000	47300	49200	47900	47500	44500	47800	46100	31500	15700	37500	26200
8	48000	47200	49100	47500	47400	44600	47200	45400	32300	15800	38800	27300
9	48100	47400	49100	47600	47400	44000	46900	44300	31400	16600	39400	33500
10	48100	47400	48700	47500	46900	43400	47500	40200	36300	17900	39200	27400
11	48100	47400	48600	46100	46300	42600	44800	33600	36600	17600	37000	20500
12	48200	47300	48600	46000	47400	44700	43500	27200	35900	20000	35000	16600
13	48100	47300	48400	46000	47400	43900	43000	23000	38800	25900	34800	11300
14	48200	47400	48200	46300	47300	44300	41100	16000	36400	21800	31000	7540
15	48300	47500	48300	47100	47300	43600	39200	14400	37600	20900	29200	7940
16	48500	47700	48200	47100	47500	43500	37700	14300	36700	21800	28500	7940
17	48800	47800	48200	46900	47900	43300	34200	13600	37400	21200	28500	8000
18	48700	48000	48000	45800	47800	43300	33500	13100	37000	24600	29600	7720
19	48700	48100	48100	46600	47700	43000	35800	14400	37600	24900	28900	7550
20	48900	48300	48200	46500	47700	43600	37500	18400	38900	24300	29300	9240
21	48800	48400	48200	45100	47300	44000	36400	17100	40300	24300	29400	6880
22	49100	48300	48000	45200	47300	43700	35900	17000	40300	26700	25600	8680
23	49100	48400	47800	45300	47300	43500	37000	20300	41000	26400	24000	6990
24	49300	48500	47600	45100	47500	42600	36100	18600	39600	26600	21500	6010
25	49200	48200	47700	45600	46200	42600	34000	18100	40000	29100	21400	7690
26	49000	47700	47500	45400	46200	42500	35900	21300	39500	31200	22800	7770
27	49300	47200	47200	44400	46700	43100	39300	18400	40000	31200	28600	8940
28	49400	47500	47400	44800	48000	44700	37600	15900	40700	31200	33900	11700
29	49200	47500	47500	44900	48100	44300	36500	14100	---	---	31300	12700
30	49400	48700	47800	46000	48100	45200	35400	13700	---	---	31800	15100
31	49700	48800	---	---	48100	45100	35500	14300	---	---	32800	14400
MONTH	49700	46100	50100	44400	48100	42500	48300	13100	41000	14900	41000	6010

11162700 SAN FRANCISCO BAY AT PIER 24, AT SAN FRANCISCO, CA--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	32800	15400	40200	27500	40000	26100	43600	33200	44100	37700	47000	43600
2	34400	12100	39800	24000	38700	28300	43000	32300	44200	39300	47100	42200
3	29200	13600	36600	19600	39400	25200	43400	34000	45000	39800	47500	42900
4	28500	16700	35600	18800	39200	26700	43800	35600	45000	39400	47400	42300
5	27600	16800	36300	17800	38100	27300	42900	35400	45100	39700	47600	42600
6	30600	17500	30500	14500	39400	24100	44000	33300	45300	38200	47700	42200
7	32700	17600	30400	16100	41700	29100	44800	31800	45400	39500	47600	42400
8	25900	15600	---	---	41600	30300	44900	33400	45900	39400	47300	44500
9	29400	16100	32500	15800	42900	29000	44200	36700	47000	40800	47200	44300
10	35300	19300	34600	16700	42400	30800	44800	36300	46600	41100	47100	43500
11	37200	22200	38600	21500	42600	32400	45800	37400	46600	42000	46700	42400
12	38600	21600	39200	20700	43000	33300	44400	38400	46400	41200	46500	41800
13	37600	27300	38700	24000	43500	32700	44200	36400	46500	41800	45400	41300
14	38400	24000	38300	19300	43900	33200	44400	36700	---	---	45600	39500
15	38000	22000	38400	20000	42900	33900	44700	36200	47200	42800	45300	39700
16	39100	20700	38600	21200	41600	30000	45000	38200	46800	43700	45600	39500
17	39200	23300	38700	22900	42200	32300	43100	36200	46600	43600	45000	37700
18	40000	20500	38900	23100	42000	31100	44000	36400	46500	39600	44900	38500
19	38200	18700	38900	21000	40700	30600	44000	34800	46400	39900	45200	34600
20	39600	21200	37100	22000	42100	28600	43800	31800	46500	40500	45600	39500
21	36600	18500	38600	22900	43000	28900	43800	31100	46800	41000	45300	38600
22	38200	19900	37800	23300	43700	31100	44000	32300	47000	42000	45000	40500
23	37400	22300	38900	25300	43600	30700	44000	34100	46700	42500	46300	40900
24	38100	27000	40600	26500	44000	30100	43300	33500	46700	43200	46200	40800
25	38800	27800	41400	25200	44300	31800	44000	35800	47400	43000	46400	40000
26	39200	24700	40200	24600	43300	36000	44000	36500	47500	44000	46200	41600
27	40300	28400	40000	26600	43700	34500	43400	36200	47500	43600	46600	41300
28	39500	25900	40600	24000	43800	34600	44000	36800	47600	43600	46100	41600
29	39200	28700	40800	26400	43800	35000	43900	37400	47500	43100	45200	41400
30	39100	24500	41300	24700	43700	34200	43600	36300	47200	42600	45300	39300
31	---	---	39300	25200	---	---	43800	37300	47300	43600	---	---
MONTH	40300	12100	---	---	44300	24100	45800	31100	---	---	47700	34600

11162700 SAN FRANCISCO BAY AT PIER 24, AT SAN FRANCISCO, CA--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	48100	47300	49800	48900	47800	46100	48300	45000	37700	14700	41600	32100
2	48200	47200	50000	48900	48000	46000	48200	45000	38400	15300	41900	33200
3	48200	47200	50000	49000	48000	46200	48100	45200	38700	15800	41800	32400
4	48100	47000	50000	49000	48100	46000	48000	45300	40400	16800	41400	31500
5	48400	47200	49800	47400	47800	46000	47800	45500	40600	17400	41300	28300
6	48400	47100	49400	46300	47900	44400	47400	45500	41100	16400	41000	27500
7	48500	47300	49300	47700	47400	44400	47900	46100	43900	16500	42000	27400
8	48500	47300	49000	47500	47200	44300	48300	45400	44000	15300	44500	33000
9	48600	47400	48800	47300	47200	43700	47500	44600	44700	17900	44900	33600
10	48400	47400	48600	47400	46800	43000	47500	40300	43700	17700	45300	27900
11	48400	47200	48400	45800	46400	42700	45700	34400	42600	19100	44500	21400
12	48400	47300	48400	46000	47400	44500	43900	27200	41900	20900	43100	16800
13	48400	47400	48200	45800	47200	44000	43800	24400	39900	25300	41700	11800
14	48600	47600	48100	46200	47100	44200	41800	16200	37400	21600	39000	10900
15	48800	47600	48400	46900	47400	43400	42100	14700	38800	21200	37800	8490
16	49000	47900	48200	46900	47800	43400	39700	14400	39800	21700	36800	8920
17	49000	48000	48300	46700	48100	43200	39600	13000	39600	21800	37200	9840
18	49200	48200	48200	45700	48200	43300	40000	13200	40400	24000	38000	3040
19	49200	48200	48400	46400	47600	43000	39300	15500	41000	24300	36400	8540
20	49200	48400	48200	46300	47700	43300	40500	18200	40900	24400	39100	11100
21	49400	48500	48300	45000	47000	43600	40800	16800	41600	24900	36400	8410
22	49500	48500	48100	45200	47000	43400	41000	16900	41000	26000	36000	10200
23	49500	48600	47900	45200	47200	43400	40700	20700	42200	25700	33100	7910
24	49400	48600	47800	45100	47400	42700	42800	19100	41900	26500	34700	6840
25	49400	48300	47700	45600	46100	42300	43400	18600	41300	28700	38900	8290
26	49700	47800	47400	45100	46900	42300	42000	22900	41300	31100	39900	8790
27	49500	47500	47300	44200	47600	43100	40800	18500	41100	31200	38500	10600
28	49600	47600	47200	44600	48000	44900	39900	17600	41700	31100	38200	12900
29	49300	47500	47300	44600	48100	44200	40200	15900	---	---	37800	14600
30	49400	48600	47800	45800	48200	45000	40000	14400	---	---	37700	16400
31	49800	48700	---	---	48100	44400	39200	15500	---	---	38000	15500
MONTH	49800	47000	50000	44200	48200	42300	48300	13000	44700	14700	45300	3040

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	37100	16300	42000	28000	42000	27100	45000	33600	46400	38500	48100	44200
2	39500	14700	41300	24400	41800	28400	44900	33000	46500	39800	48500	42800
3	43200	15400	40700	21300	43100	25400	44700	34400	46400	40300	48000	43300
4	42500	17300	41700	20100	42700	26300	45300	35700	46200	39700	47900	42900
5	43800	18300	42600	17400	42800	27500	45600	35800	46500	40100	48100	43100
6	45000	19300	43900	14900	44200	25800	45600	34900	47100	38900	48000	42700
7	43500	19300	44500	16300	44700	30600	46000	32500	46600	40000	47700	42600
8	42900	17700	---	---	45300	30700	46300	33600	47800	40100	47500	44500
9	42700	17500	43100	16200	45000	29100	45900	36900	47400	41100	47500	44400
10	44200	20700	41700	19400	45400	31200	46300	36600	46900	41300	47300	43600
11	44000	24600	41600	21700	44700	32800	46400	37600	46800	42200	47000	42700
12	44500	24100	44200	21400	45300	33400	46000	38400	47100	41300	46900	42200
13	40900	28300	42700	23700	45400	33100	45500	36900	46700	42000	46800	41500
14	43300	24700	43300	20100	45300	33800	46500	37200	47700	43100	46200	25500
15	44200	23400	42000	20800	45500	33900	45800	36700	48100	43000	45800	40300
16	43800	21900	41900	21700	43200	30300	45400	38200	47800	43900	46200	39700
17	43200	24200	41100	24100	43400	32400	45200	23900	47300	43800	46200	39100
18	42300	21500	41500	23400	43600	31300	45800	37500	47400	40300	46100	38800
19	40100	19900	42500	21800	44500	31400	45200	35500	47500	40500	46300	35300
20	42300	21700	42400	22100	45400	29900	44600	33300	47300	40800	46100	39800
21	42200	19600	41600	23200	45300	29500	44900	32200	47200	41200	45700	39300
22	43200	20500	42300	24400	45300	31300	44900	32700	47800	42500	46300	40900
23	43200	23300	43300	26300	45100	31200	44800	34200	47800	43000	46500	41000
24	43300	27800	42800	27800	45300	30000	44900	33700	47700	43400	46600	41100
25	42700	28600	43400	26400	45500	31900	45100	36100	48100	43800	46700	20300
26	42300	25700	42100	25600	44800	35800	45100	36600	48000	44400	46900	41600
27	42500	28900	41800	27100	44900	34400	45100	36400	48000	43900	47100	41200
28	41700	27200	42900	25200	44900	35100	45100	37000	48100	44100	46600	41500
29	41300	29500	42600	26500	44800	34900	45000	37700	48300	43700	45900	41400
30	41300	26500	42700	25500	44700	34400	45500	37000	48500	43500	46400	39300
31	---	---	42500	25500	---	---	46500	37800	48500	44100	---	---
MONTH	45000	14700	---	---	45500	25400	46500	23900	48500	38500	48500	20300

11162700 SAN FRANCISCO BAY AT PIER 24, AT SAN FRANCISCO, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	16.5	16.0	14.0	11.0	10.5	10.5	10.0	12.5	11.5	13.5	13.0
2	18.0	16.5	16.0	14.0	11.0	10.5	10.5	10.0	13.0	12.0	13.5	13.0
3	18.0	16.0	15.5	13.5	11.0	10.5	10.5	10.0	12.5	12.0	13.5	13.0
4	18.0	16.0	15.5	13.0	11.0	10.5	10.5	10.0	12.5	12.0	13.5	13.0
5	18.0	16.0	14.5	13.0	11.0	10.5	10.5	10.0	12.5	12.0	13.0	13.0
6	18.0	16.0	14.0	13.0	11.0	10.5	10.5	10.0	12.5	12.0	13.5	12.5
7	18.5	16.0	14.0	13.0	10.5	10.5	10.5	10.0	12.5	12.0	13.0	12.5
8	18.5	16.5	14.0	13.0	10.5	10.0	10.5	10.0	13.0	12.0	13.0	13.0
9	18.5	16.5	14.0	12.5	10.5	10.0	11.0	10.5	13.0	12.0	13.5	13.0
10	18.0	16.5	13.5	12.5	10.5	10.0	11.0	10.5	13.5	12.0	13.5	13.0
11	18.0	16.5	13.0	12.5	10.0	9.5	11.0	10.5	13.0	12.0	13.5	13.0
12	17.5	16.5	13.0	12.5	10.0	10.0	11.5	11.0	13.0	12.0	14.0	13.0
13	17.5	16.0	13.0	12.5	10.0	10.0	11.5	11.0	12.5	12.0	13.5	12.5
14	17.5	16.0	13.0	12.5	10.0	10.0	12.0	11.5	12.5	11.5	13.5	12.5
15	17.0	15.0	13.0	12.0	10.0	10.0	12.0	11.5	12.5	11.5	13.5	12.0
16	17.0	14.5	12.5	12.0	10.5	10.0	12.0	11.5	12.5	11.5	14.0	12.5
17	17.0	14.0	12.5	12.0	10.5	10.0	12.0	11.0	12.5	11.5	13.5	12.5
18	17.0	14.0	12.0	11.5	10.5	10.0	12.0	11.0	12.5	12.0	13.5	12.5
19	17.0	14.0	12.0	11.5	10.5	10.0	12.0	11.0	12.5	12.0	13.5	12.5
20	16.5	14.0	12.0	11.5	10.5	10.0	12.0	10.5	13.0	12.0	13.5	12.5
21	16.5	14.0	12.0	11.0	10.5	10.0	12.0	10.5	13.0	12.5	13.5	12.5
22	16.5	14.0	11.5	11.0	10.5	9.5	11.5	10.5	13.0	12.5	13.0	12.0
23	16.5	14.0	11.5	11.0	10.5	9.5	11.5	11.0	13.0	12.5	12.5	12.0
24	16.0	14.0	11.5	11.0	10.0	9.5	11.5	11.0	13.0	12.5	12.5	11.5
25	16.0	14.0	11.5	11.0	10.0	9.5	11.5	11.0	13.5	12.5	12.5	11.5
26	16.0	14.5	11.5	10.5	10.0	9.5	11.5	11.0	13.0	12.5	13.0	11.5
27	16.0	14.5	11.0	10.5	10.0	9.5	12.0	11.0	13.0	12.5	13.0	11.5
28	16.0	14.0	11.0	10.5	10.5	10.0	12.0	11.0	13.0	12.5	13.5	12.0
29	16.0	14.5	11.0	10.5	10.5	10.0	12.0	11.0	---	---	14.0	12.0
30	16.0	14.0	11.0	10.5	10.5	10.0	12.0	11.5	---	---	14.0	12.5
31	16.0	14.0	---	---	10.5	10.0	12.0	11.5	---	---	13.5	12.5
MONTH	18.5	14.0	16.0	10.5	11.0	9.5	12.0	10.0	13.5	11.5	14.0	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	13.0	14.5	12.0	16.0	13.0	17.5	14.5	19.0	16.0	18.5	16.0
2	14.0	13.0	15.0	12.5	15.5	13.0	17.5	15.0	18.5	16.0	18.5	16.0
3	14.0	13.5	15.5	13.0	16.0	13.0	17.0	15.0	18.5	15.5	18.0	15.5
4	14.0	13.5	15.5	13.5	16.0	13.0	17.5	15.0	18.5	15.5	18.5	15.5
5	14.5	14.0	15.0	13.5	16.0	13.5	17.5	15.5	18.5	16.0	18.5	15.0
6	15.0	14.0	15.5	14.0	16.5	13.0	18.0	15.5	18.5	16.0	18.5	15.0
7	15.0	13.5	15.5	14.0	16.0	12.5	18.0	15.0	18.5	16.0	18.5	15.0
8	14.5	14.0	15.5	14.0	16.0	12.5	17.5	15.0	19.0	15.5	18.0	15.0
9	14.5	13.5	15.5	13.5	15.5	12.0	17.5	15.0	18.5	14.5	18.0	15.0
10	14.5	13.5	16.0	13.0	15.5	12.5	17.5	15.0	19.0	15.0	18.0	15.0
11	15.0	13.0	15.0	12.0	15.5	12.5	17.5	14.5	19.0	15.0	18.0	15.5
12	14.5	13.0	14.5	12.0	16.0	12.5	17.0	15.0	19.0	15.0	18.0	15.5
13	14.5	13.0	14.0	11.5	16.5	12.5	18.5	15.5	19.0	15.0	18.0	16.5
14	14.0	12.5	14.0	12.0	15.5	12.5	18.0	15.0	18.5	15.0	18.0	16.0
15	14.0	12.5	14.5	11.5	15.5	13.0	18.5	15.0	18.5	15.0	18.0	16.5
16	13.5	12.0	14.5	12.0	16.0	13.5	18.0	15.0	18.5	16.0	18.0	16.0
17	13.0	12.0	14.5	12.0	16.0	13.0	18.0	16.0	18.5	16.0	18.5	16.5
18	13.0	11.5	15.0	12.0	16.0	13.5	18.5	16.0	19.0	16.5	19.0	16.5
19	13.0	11.5	15.5	12.5	16.0	14.0	18.5	15.5	19.0	16.5	18.5	16.0
20	13.0	11.0	15.0	13.0	17.0	13.0	18.5	15.5	19.0	16.5	18.0	15.5
21	13.0	11.5	15.0	12.5	17.0	13.0	18.5	16.0	19.0	16.0	17.5	16.0
22	14.5	11.0	15.0	12.5	18.0	12.5	18.5	15.5	18.5	16.0	17.5	16.0
23	14.0	11.5	15.5	12.5	17.5	12.5	18.5	15.5	18.5	16.5	17.0	15.5
24	14.0	11.5	15.0	12.5	17.5	12.5	18.5	16.0	19.0	16.5	17.5	15.5
25	13.5	11.5	14.5	12.0	17.5	12.5	18.5	15.5	18.5	16.0	17.5	15.5
26	13.5	11.5	15.0	12.5	16.5	13.5	18.0	15.5	18.5	16.0	18.0	16.0
27	13.5	11.5	15.0	12.5	17.0	13.0	18.5	16.0	18.5	16.0	18.0	15.5
28	13.5	12.0	15.5	12.5	17.0	13.5	18.0	15.5	18.0	16.0	18.0	16.0
29	14.5	12.0	15.5	12.5	17.0	14.0	18.5	15.5	18.5	15.5	18.0	16.5
30	14.5	12.0	16.0	12.5	17.0	14.0	19.5	15.5	18.5	16.0	18.0	16.5
31	---	---	16.0	13.0	---	---	19.0	16.0	18.0	16.0	---	---
MONTH	15.0	11.0	16.0	11.5	18.0	12.0	19.5	14.5	19.0	14.5	19.0	15.0

11162700 SAN FRANCISCO BAY AT PIER 24, AT SAN FRANCISCO, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	16.0	16.0	14.0	11.5	10.5	10.5	10.0	12.5	11.5	13.5	13.0
2	18.0	16.0	16.0	13.5	11.5	10.5	10.5	10.0	12.5	12.0	13.5	13.0
3	18.0	16.0	15.5	13.5	11.0	11.0	10.5	10.0	12.5	12.0	13.5	13.0
4	18.0	16.0	15.5	13.0	11.0	11.0	10.5	10.0	12.5	12.0	13.5	13.0
5	18.0	16.0	14.5	13.0	11.0	11.0	10.5	10.0	12.5	12.0	13.5	13.0
6	18.0	16.0	14.5	13.0	11.0	10.5	10.5	10.0	12.5	12.5	13.0	13.0
7	18.5	16.0	14.5	13.0	11.0	10.5	10.5	10.5	12.5	12.5	13.0	13.0
8	18.5	16.0	14.0	13.0	10.5	10.5	11.0	10.5	13.0	12.5	13.5	13.0
9	18.5	16.5	14.0	12.5	10.5	10.0	11.0	10.5	13.0	12.5	13.5	13.0
10	18.0	16.5	13.5	12.5	10.5	10.0	11.0	10.5	13.0	12.5	13.5	13.0
11	18.0	16.5	13.5	12.5	10.5	10.0	11.0	11.0	13.0	12.0	13.5	13.5
12	17.5	16.5	13.0	12.5	10.5	10.0	11.5	11.0	13.0	12.5	13.5	13.5
13	17.5	16.0	13.5	12.5	10.5	10.0	11.5	11.0	12.5	12.0	13.5	12.5
14	17.5	15.5	13.5	12.5	10.5	10.0	12.0	11.5	12.5	12.0	13.5	12.5
15	17.0	15.0	13.0	12.0	10.5	10.0	12.0	11.5	12.5	12.0	13.5	12.5
16	17.0	14.0	13.0	12.0	10.5	10.0	12.0	11.5	12.5	12.0	13.5	12.5
17	17.0	14.0	12.5	12.0	10.5	10.0	12.0	11.0	12.5	11.5	13.5	12.5
18	17.0	14.0	12.5	11.5	10.5	10.0	12.0	11.5	12.5	12.0	13.5	12.5
19	17.0	14.0	12.0	11.5	10.5	10.0	12.0	11.0	12.5	12.0	13.5	13.0
20	16.5	14.0	12.0	11.5	10.5	10.0	12.0	11.0	12.5	12.5	13.5	13.0
21	16.5	14.0	12.0	11.5	10.5	10.0	12.0	11.0	13.0	12.5	13.5	12.5
22	16.5	14.0	12.0	11.5	10.5	9.5	12.0	11.0	13.0	12.5	13.5	12.5
23	16.5	14.0	12.0	11.5	10.5	9.5	12.0	11.0	13.0	13.0	13.0	12.0
24	16.0	14.0	11.5	11.0	10.5	9.5	12.0	11.0	13.0	13.0	13.0	11.5
25	16.0	14.0	11.5	11.0	10.0	9.5	12.0	11.0	13.5	13.0	13.0	11.5
26	16.0	14.5	11.5	11.0	10.0	9.5	12.0	11.5	13.0	13.0	13.0	11.5
27	16.0	14.0	11.5	11.0	10.5	9.5	12.0	11.0	13.5	13.0	13.0	12.0
28	16.0	14.0	11.0	10.5	10.5	10.0	12.0	11.5	13.5	13.0	13.0	12.0
29	16.0	14.5	11.0	10.5	10.5	10.0	12.0	11.5	---	---	13.5	12.0
30	16.0	14.0	11.0	10.5	10.5	10.0	12.0	11.5	---	---	13.5	12.5
31	16.0	14.0	---	---	10.5	10.0	12.5	11.5	---	---	13.5	12.5
MONTH	18.5	14.0	16.0	10.5	11.5	9.5	12.5	10.0	13.5	11.5	13.5	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.0	13.0	14.0	12.0	16.0	12.5	17.0	14.5	19.0	15.0	18.0	15.5
2	14.0	13.5	15.0	12.5	15.5	12.5	17.5	14.5	18.5	15.0	18.0	14.5
3	14.0	13.0	15.5	12.5	16.0	12.0	17.0	14.5	18.5	15.0	17.5	15.0
4	14.0	13.0	15.5	12.5	16.0	12.0	17.5	14.5	18.5	15.0	18.0	15.0
5	15.0	13.0	15.0	12.5	16.0	12.0	17.5	14.5	18.5	15.5	18.0	15.0
6	15.0	13.0	15.5	11.5	16.0	11.5	18.0	15.0	18.5	15.0	18.0	14.5
7	15.0	13.0	15.5	11.0	16.0	11.0	17.5	14.5	18.5	15.0	18.0	14.5
8	15.0	13.0	15.5	10.5	15.0	11.0	18.0	14.5	19.0	14.0	17.5	14.5
9	14.5	13.5	15.0	11.0	15.5	11.0	17.5	14.5	18.5	14.5	17.5	14.5
10	14.5	13.0	15.0	11.5	15.0	11.0	17.5	14.0	19.0	15.0	17.5	15.0
11	15.0	12.5	14.5	11.5	15.0	11.5	17.5	14.0	19.0	15.0	17.5	15.0
12	15.0	12.5	14.0	10.5	15.0	11.5	17.5	14.5	18.5	14.5	17.5	15.5
13	14.5	13.0	14.0	11.0	16.0	11.5	18.5	15.0	18.5	15.0	17.5	15.5
14	14.5	12.5	14.0	11.0	15.5	11.5	18.0	14.0	18.5	15.0	17.5	15.5
15	14.0	11.5	14.0	11.0	15.5	11.5	18.5	14.5	18.5	14.5	17.5	16.0
16	13.5	11.5	14.5	11.5	16.0	13.0	18.0	15.0	18.5	15.0	17.5	15.5
17	13.5	11.5	14.5	12.0	16.0	13.0	18.0	15.0	18.0	15.5	17.5	15.5
18	13.5	11.5	15.0	12.0	16.0	13.0	18.5	15.0	18.0	16.0	18.0	15.5
19	13.0	11.5	15.0	12.0	16.0	12.5	18.5	15.5	19.0	16.0	18.0	15.5
20	13.5	11.0	15.0	12.0	17.0	12.0	18.5	15.5	18.5	16.0	18.0	15.5
21	13.0	11.0	15.0	12.0	16.5	11.5	18.5	15.5	18.5	16.0	17.5	15.5
22	13.5	10.5	15.0	11.5	16.5	12.0	18.5	15.5	18.5	16.0	17.5	15.5
23	14.0	10.5	15.0	11.5	16.5	12.0	18.5	15.5	18.5	16.0	17.0	15.5
24	14.5	10.5	15.0	12.0	17.0	12.0	18.5	15.5	18.5	16.0	17.5	15.5
25	13.5	11.0	14.5	12.0	17.0	12.0	18.5	15.0	18.0	15.5	17.5	15.5
26	14.0	11.0	15.0	12.0	16.5	12.5	18.5	15.0	18.0	15.5	17.5	15.5
27	13.5	11.0	15.0	12.0	16.5	13.0	18.5	15.0	18.0	15.5	18.0	15.0
28	14.0	11.5	15.5	12.0	17.0	13.0	18.5	15.0	18.0	15.5	18.0	15.5
29	13.5	11.5	15.5	12.0	17.0	13.5	18.5	15.0	18.0	15.5	18.0	16.0
30	14.0	12.0	16.0	12.0	17.0	14.0	19.0	15.0	18.0	15.0	17.5	15.5
31	---	---	16.0	12.0	---	---	19.0	14.5	18.0	15.0	---	---
MONTH	15.0	10.5	16.0	10.5	17.0	11.0	19.0	14.0	19.0	14.0	18.0	14.5

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA

LOCATION.--Lat 37°35'04", long 122°14'59", unsurveyed, T.4 S., R.4 W., in San Mateo County, Hydrologic Unit 18050004, on Pier 20 directly under San Mateo Bridge.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1989 to current year.
WATER TEMPERATURE: October 1989 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1989.

REMARKS.--Interruptions in record were due to malfunction of the sensing and/or recording instruments. Upper probe is set at 5.5 ft below Mean Lower Low Water (MLLW). Lower probe is set at 45.5 ft below MLLW. Daily maximums and minimums sometimes differ from tidal-cycle (24.8 hours) maximums and minimums.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 50,200 microsiemens, Sept. 5, 1990; minimum recorded, 14,600 microsiemens, Apr. 6, 1995.
(Lower probe) Maximum recorded, 50,300 microsiemens, Oct. 31, Nov. 4, 9, 1990; minimum recorded, 16,000 microsiemens, Apr. 2, 4, 1995.
WATER TEMPERATURE: (Upper probe) Maximum recorded, 23.5°C, Aug. 1, 2, 28, 1993, Aug. 8, 1995; minimum recorded, 6.5°C, on several days in December 1990 and January 1991.
(Lower probe) Maximum recorded, 23.0°C, on several days in August 1990, July 16, 17, 1992, Aug. 2-6, 1993, July 16, 31, and several days in August 1995; minimum recorded, 6.5°C, Dec. 30, 1990, to Jan. 2, 1991.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 49,800 microsiemens, Oct. 26; minimum recorded, 14,600 microsiemens, Apr. 6.
(Lower probe) Maximum recorded, 49,300 microsiemens, Nov. 1; minimum recorded, 16,000 microsiemens, Apr. 2, 4.
WATER TEMPERATURE: (Upper probe) Maximum recorded, 23.5°C, Aug. 8; minimum recorded, 9.5°C, several days in December, Jan. 1-5.
(Lower probe) Maximum recorded, 23.0°C, July 16, 31, several days in August; minimum recorded, 9.5°C, several days in December, Jan. 1-5.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	49200	48400	49600	48700	47000	46100	46600	45900	28400	26800	30500	27200
2	49200	48500	49700	48800	46800	46000	46600	45900	28100	26200	30900	27600
3	49100	48500	49600	48900	46900	46000	46400	45700	27900	26300	30800	28200
4	49000	48200	49700	48800	46800	46200	46400	45800	27600	25500	30900	28200
5	49100	48100	49500	48700	46700	46200	46400	45500	27200	24100	30700	28800
6	48900	48100	49300	47500	46600	46200	46300	45600	26600	24100	30800	28600
7	48900	48400	48900	47800	46800	46300	46500	45200	25800	23500	31000	28500
8	48900	48400	48900	48000	46900	46400	46300	45500	25800	23000	33100	29200
9	48800	48400	48600	47600	47100	46400	46200	45200	25700	22700	34700	30400
10	48900	48400	48500	47600	47100	46300	45800	43700	25400	22600	36300	32300
11	49000	48500	48400	47600	47000	46300	45700	39400	25500	22800	36400	33500
12	49100	48400	48200	46900	46900	46100	45300	41900	27800	24000	35900	32200
13	49100	48600	48000	47500	46900	46200	45200	41900	27500	25400	35000	31400
14	49200	48600	48000	47500	46800	46000	44500	42000	27400	25600	34800	29800
15	49100	48600	47800	47200	46600	46000	43700	32500	27600	25700	33300	21700
16	49100	48500	47800	47300	46500	45900	39500	29200	27800	25800	29800	20300
17	49200	48700	47700	46900	46600	46000	35700	28800	27800	25900	27100	21000
18	49300	48800	47500	46900	46400	45800	34800	26000	27900	26000	25700	20300
19	49400	48800	47400	46600	46400	45900	32800	27200	27900	25900	24800	20100
20	49400	48800	47400	46400	46400	45800	32300	28600	28000	26300	24300	20000
21	49400	48800	47300	46300	46300	45900	31700	29000	28200	26500	23800	20200
22	49300	48600	47200	46200	46500	46100	31200	29100	28100	26200	23200	20600
23	49400	48800	47200	46300	46600	46200	30400	28700	28000	26200	22700	20200
24	49400	48800	47200	46100	46600	45900	30200	29000	28300	26200	21800	17600
25	49400	48800	47100	46300	46700	46100	30300	29000	29000	26500	20400	16400
26	49800	48900	47200	46500	46600	46100	30300	27800	29400	26700	18900	15100
27	49500	48900	47500	46400	46400	45800	29700	27800	29800	26900	17300	15100
28	49600	48900	47200	46200	46600	45900	29300	27600	29800	27000	17200	15500
29	49700	49100	47100	46100	46600	45900	29100	27200	---	---	17200	15700
30	49700	49000	47000	46000	46700	46000	28800	27200	---	---	17200	15800
31	49600	48800	---	---	46600	45900	28600	26800	---	---	17100	15700
MONTH	49800	48100	49700	46000	47100	45800	46600	26000	29800	22600	36400	15100

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17100	15500	30400	27100	31700	28500	34700	32200	37200	35300	39900	37400
2	17000	15500	30400	27200	31200	28400	34800	32200	37300	35500	39800	37300
3	17300	15200	29700	26900	31600	28600	34900	32000	37700	35800	39900	36900
4	18200	15000	29900	26500	31200	28500	35100	32200	37500	35600	39900	36900
5	18900	14800	30100	26600	31200	28500	35400	32300	37800	35500	40000	37000
6	20000	14600	28800	27500	31900	29000	35500	32400	37900	35600	40000	37300
7	22800	17900	29300	27600	32000	29300	36200	32200	38200	35500	40000	37500
8	21800	18400	28900	26900	32000	29500	36400	32400	38400	35400	40100	37700
9	21100	17600	28200	27100	32500	29300	36600	32300	38200	35400	40400	38100
10	21400	17500	28200	25400	32500	29300	36600	32300	38300	35200	40500	38200
11	22200	18300	27900	26200	32600	29200	36400	32700	38400	35500	40400	38300
12	24400	18600	27600	26600	32900	29000	36200	32500	38400	35900	40400	38600
13	25400	20400	27500	26900	33000	29000	36600	32800	38700	36100	40200	38700
14	26100	21200	27500	26800	33300	29000	36900	33300	38700	36500	40200	38700
15	26800	21400	27700	26900	33300	29700	36900	33900	38700	36600	40100	38600
16	27000	22000	27700	26800	33100	29600	37100	34200	39200	37100	39900	38700
17	26800	21800	27800	26700	33400	30100	37100	34500	39300	37200	40200	38600
18	27300	22400	28000	26800	33600	30400	37200	34900	39800	37500	40200	38500
19	26900	22100	28200	27000	33400	30300	37200	35200	40200	37700	40400	38800
20	27100	23300	28400	26900	34200	30700	37400	34900	40000	37400	40400	38900
21	27000	22600	28300	27200	---	---	37600	34800	40400	37800	40500	38700
22	26800	22900	28400	27300	34900	30000	37400	34700	40900	38200	40800	39000
23	27100	23500	29000	27300	34500	30100	37700	34600	41000	38400	40800	39400
24	27300	24400	29500	27400	34400	30300	37600	34500	40800	38300	40900	39500
25	27300	24400	29900	27500	34300	31100	37400	34600	40700	38400	41300	39900
26	27600	24300	30100	27500	34300	31800	37400	34700	40700	38600	41500	40200
27	28400	24600	30200	27600	34100	31700	---	---	41000	38700	41500	40200
28	29800	25600	30300	27600	34400	31800	37300	35100	40900	38500	41300	40100
29	30300	26200	30600	27800	34300	31800	37000	35000	40700	38300	41300	40400
30	30400	26900	30900	28000	34400	32100	37100	35200	40500	38000	41500	40700
31	---	---	31200	28300	---	---	37400	35500	40300	37600	---	---
MONTH	30400	14600	31200	25400	---	---	---	---	41000	35200	41500	36900

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	48600	48300	49300	48300	47100	46100	45900	45200	28200	27200	30600	27600
2	48600	48300	49200	48100	47100	46000	45900	45300	28000	27100	31300	28000
3	48800	48100	49000	48000	47100	46200	45800	45100	27800	26900	31000	28500
4	49000	48500	49000	48200	47000	46000	45800	45300	27500	26500	31300	28400
5	49100	48400	49100	48200	46800	46100	45700	45000	27200	26300	32100	29100
6	48900	48300	48900	47800	46900	46200	45500	45300	27000	26300	---	---
7	49000	48300	48500	47700	47000	46200	45600	45200	26700	26400	32700	29700
8	49000	48400	48300	47700	47000	46300	45700	45300	26500	26200	33300	31500
9	49100	48400	48200	47800	46800	46300	45700	45400	30200	25900	39600	33300
10	48900	48300	47900	47600	46800	46400	45600	45100	31500	25300	41600	37500
11	49000	48300	47800	47400	46800	46400	45500	44400	31700	24800	40400	38300
12	49000	48300	47700	47500	46800	46500	45300	44400	30400	25500	40200	37800
13	49000	48400	47700	47300	46700	46300	45000	43500	28900	25800	39100	32900
14	49000	48400	47600	47300	46700	46300	44300	42900	27600	25500	37100	32900
15	48800	48400	47600	47100	46700	46000	43700	41300	27500	25500	35400	31000
16	48900	48400	47500	46700	46600	46000	42200	38600	27600	25600	32800	29200
17	49000	48600	47400	46300	46600	46000	39800	36200	27500	25900	30600	26700
18	49100	48600	47000	45900	46600	46000	37000	34000	27600	26100	27800	23500
19	49100	48400	47000	46000	46600	46000	34800	32300	27800	26200	25500	23200
20	49000	48400	47000	46000	46600	46000	33000	31100	28000	26300	24500	22800
21	49000	48300	47000	46100	46500	46000	31500	29700	28100	26400	23900	22100
22	49000	48300	47100	46100	46600	46100	30700	29100	28200	26200	23100	21300
23	49100	48400	47300	46600	46400	46100	30200	28900	28000	26200	22700	21600
24	49200	48600	47300	46600	46400	45800	30300	29300	28900	26200	22000	20300
25	49200	48500	47200	46600	46400	46000	30100	29500	30000	26400	21000	18900
26	49100	48600	47100	46400	46400	45900	29800	28500	30100	26700	19800	18000
27	49000	48500	47100	46300	46300	45700	29300	28200	30400	27000	18600	16800
28	49000	48400	47100	46500	46200	45500	29100	28200	30300	27300	18200	16700
29	49000	48400	47100	46200	46200	45500	28900	28000	---	---	17800	16800
30	49000	48300	47100	46100	46100	45300	28700	27600	---	---	17800	16600
31	49100	48300	---	---	46000	45200	28500	27500	---	---	17500	16300
MONTH	49200	48100	49300	45900	47100	45200	45900	27500	31700	24800	---	---

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17400	16300	32000	27900	30900	27300	34900	31500	37600	35800	39600	36900
2	17500	16000	31500	27900	30400	27200	34400	31600	38100	35900	39900	37100
3	18900	16100	30900	27800	30800	27700	34200	31300	38000	35700	40100	36900
4	22200	16000	31400	27700	30700	27500	34700	31800	38400	35900	40200	36700
5	27500	18800	30600	27000	30700	27300	35600	32100	38200	35700	40700	37000
6	32300	26800	29500	27800	30900	28100	35700	32100	38400	35700	40800	37500
7	36700	31600	29900	27900	31300	28500	36500	31700	38900	35600	41200	37800
8	38100	32600	29200	27500	31500	28500	36600	32000	39700	35500	40700	37700
9	36700	29700	29900	28200	31900	28300	36900	32000	39500	35900	40700	38300
10	34800	24600	29700	27500	32800	28400	36900	32100	39100	35800	41000	38600
11	31200	23900	28000	26800	32700	28600	36700	32000	38900	35800	41000	38700
12	29300	23000	27500	26900	33600	28600	36800	32000	39000	36100	40800	38900
13	28500	23000	27200	26700	33600	28700	36800	32200	39000	36400	40900	38900
14	26900	22000	27400	26600	33900	28900	36500	32600	39300	36800	40700	38400
15	27100	22200	27600	26400	34400	29800	36400	33100	39200	37200	40700	38800
16	27500	22900	27700	26400	33500	29500	36300	33500	39900	37100	40500	38800
17	27400	22900	27700	26300	33900	29900	36300	33900	39500	37300	40800	38800
18	27700	23000	27800	26300	34000	30400	36600	34200	40100	37400	41300	38900
19	27700	23400	27900	26500	34200	30400	36500	34200	41400	37600	41600	39500
20	27600	24000	27800	26500	34600	31000	36900	34000	41300	37900	41400	39800
21	27600	23500	27800	26500	---	---	37400	34100	40500	38400	41700	39700
22	27400	24600	27900	26700	34600	30800	37100	34200	41200	38400	41800	39800
23	27700	24700	29000	26700	34600	30900	37600	34100	41300	38400	42000	40100
24	27700	25200	29000	26600	34700	31400	37300	34100	41000	38300	42200	40600
25	27900	25200	29300	26500	34600	32100	37200	34100	41000	38300	42200	40700
26	28700	25100	29100	26500	34600	31800	37000	34100	40900	38400	42500	40800
27	29800	25000	29300	26400	34200	31600	---	---	41100	38400	42400	40800
28	30600	25900	29900	26300	34100	31500	37700	35200	40900	38200	42000	40400
29	31200	26800	29900	26600	34000	31500	37600	34800	40500	38000	42400	40800
30	31800	27400	30300	26800	34300	31400	37500	35000	40200	37300	42400	41000
31	---	---	30600	27300	---	---	37700	35700	39600	37000	---	---
MONTH	38100	16000	32000	26300	---	---	---	---	41400	35500	42500	36700

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.0	19.5	---	---	11.0	10.5	9.5	9.5	13.0	12.0	14.5	13.5
2	21.0	19.5	16.0	15.5	11.0	10.5	9.5	9.5	13.5	12.5	14.0	13.5
3	20.5	19.5	15.5	14.5	11.0	11.0	10.0	9.5	13.5	12.5	14.0	13.5
4	20.0	19.0	15.0	14.5	11.0	11.0	10.0	9.5	13.5	12.5	14.0	13.5
5	19.5	19.0	15.0	14.0	11.0	10.5	10.0	9.5	13.0	12.5	13.5	13.5
6	19.5	19.0	14.5	14.0	11.0	10.5	10.0	10.0	13.5	13.0	14.0	13.0
7	19.5	19.0	15.0	14.0	10.5	10.5	10.5	10.0	13.5	13.0	14.0	13.5
8	20.0	19.0	14.5	14.0	11.0	10.0	10.5	10.0	14.0	13.5	13.5	13.5
9	20.0	19.0	14.5	13.5	10.5	10.0	11.0	10.0	14.0	13.0	13.5	13.5
10	19.5	19.5	14.0	13.5	10.0	10.0	11.0	10.5	14.0	13.0	13.5	13.5
11	19.5	19.0	14.0	13.5	10.0	10.0	11.5	11.0	13.5	13.0	14.0	13.5
12	19.5	18.5	13.5	13.0	10.0	10.0	11.5	11.0	13.5	13.0	14.0	13.5
13	18.5	18.0	13.5	13.0	10.0	9.5	12.0	11.0	13.0	12.5	14.0	13.5
14	18.0	17.5	13.5	13.0	10.0	10.0	12.0	11.5	13.0	12.5	14.0	13.5
15	17.5	16.5	13.5	12.5	10.0	9.5	12.0	11.5	13.0	12.0	14.0	13.0
16	17.0	16.5	13.0	12.5	10.0	10.0	11.5	11.0	12.5	12.0	14.5	13.0
17	17.0	16.0	12.5	12.0	10.0	9.5	11.5	10.5	12.5	12.0	14.5	13.5
18	17.0	16.5	12.5	11.0	10.0	9.5	11.5	11.0	13.0	12.0	14.5	13.5
19	16.5	16.5	12.0	11.0	10.0	10.0	11.5	11.0	13.0	12.5	14.0	13.5
20	17.0	16.5	11.5	11.0	10.0	9.5	11.5	11.0	13.5	12.5	14.0	13.5
21	16.5	16.0	11.5	11.0	10.0	9.5	11.0	11.0	14.0	13.0	14.0	13.5
22	17.0	16.5	11.5	11.0	10.0	9.5	11.0	11.0	14.0	13.0	13.5	13.0
23	17.0	16.5	11.5	11.0	9.5	9.5	11.0	11.0	13.5	13.5	13.5	12.5
24	17.5	16.5	11.5	11.0	9.5	9.5	11.5	11.0	13.5	13.5	13.0	12.0
25	17.0	16.5	11.5	11.0	9.5	9.5	11.5	11.0	14.0	13.5	13.0	12.0
26	17.5	16.5	11.0	11.0	9.5	9.5	11.5	11.5	14.0	13.5	13.5	12.0
27	17.0	16.5	11.0	10.5	9.5	9.5	11.5	11.5	14.0	13.5	14.0	12.5
28	17.0	16.5	11.0	10.5	10.0	9.5	11.5	11.5	14.0	13.5	14.5	13.0
29	17.0	16.5	11.0	10.5	9.5	9.5	12.0	11.5	---	---	15.0	13.5
30	17.0	16.5	11.0	10.5	9.5	9.5	12.5	11.5	---	---	15.0	13.5
31	17.0	16.5	---	---	9.5	9.5	12.5	11.5	---	---	15.0	14.0
MONTH	21.0	16.0	---	---	11.0	9.5	12.5	9.5	14.0	12.0	15.0	12.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	14.0	16.0	15.0	18.5	17.5	21.5	20.5	22.5	22.0	20.5	19.5
2	15.5	14.5	16.0	15.0	18.5	17.5	21.5	20.5	23.0	22.0	20.5	19.5
3	15.5	14.5	16.5	15.5	18.5	17.5	21.5	20.5	22.5	22.0	20.5	19.5
4	15.5	15.0	16.5	16.0	18.5	17.0	21.5	20.5	22.5	22.0	20.5	19.5
5	16.0	15.0	16.0	15.5	18.0	17.5	21.5	20.5	23.0	21.5	21.0	19.5
6	17.0	15.5	16.0	15.5	17.5	17.0	21.5	20.5	23.0	21.5	22.0	19.5
7	16.0	15.5	16.5	15.0	17.5	16.5	21.5	20.0	22.5	21.0	21.5	20.0
8	16.0	15.5	16.5	15.5	18.0	16.5	21.5	20.0	23.5	21.0	21.5	20.0
9	15.5	14.5	16.5	16.0	18.0	17.0	21.5	19.5	23.0	21.0	21.5	20.0
10	15.5	14.5	17.0	15.5	18.5	17.0	21.5	19.5	23.0	21.0	21.0	20.0
11	15.5	14.5	16.5	16.0	18.5	17.0	21.0	20.0	22.0	21.0	21.0	20.0
12	16.0	15.0	16.5	15.5	18.5	17.0	21.0	19.5	22.0	21.0	21.0	20.0
13	15.5	15.0	16.0	15.5	18.5	17.0	21.0	19.5	22.5	21.0	20.5	20.0
14	15.5	14.5	16.0	15.5	18.5	17.0	21.5	20.0	22.5	21.0	20.5	20.0
15	15.0	14.0	16.5	15.5	18.0	17.0	22.0	20.5	22.5	21.5	20.5	20.0
16	14.5	14.0	17.0	15.5	18.0	17.0	23.0	21.0	22.0	21.5	20.5	20.0
17	14.0	14.0	17.0	16.0	18.0	17.0	22.0	21.0	22.0	21.0	20.5	20.0
18	14.0	13.5	17.5	16.0	18.0	17.0	22.0	21.5	22.0	21.0	20.5	19.5
19	14.0	13.5	18.0	16.5	18.0	17.0	22.0	21.5	23.0	21.0	21.0	20.0
20	14.0	13.5	17.5	17.0	18.5	17.5	22.0	21.0	22.0	21.0	21.0	20.0
21	14.5	13.0	17.5	17.0	---	---	21.5	21.0	22.0	21.0	21.5	20.0
22	14.5	13.5	17.5	16.5	19.5	17.5	21.5	21.0	22.0	21.0	21.0	20.0
23	15.5	14.0	18.0	16.5	20.0	18.0	21.5	20.5	22.0	21.0	21.0	20.0
24	15.5	14.5	17.5	16.5	21.0	18.5	21.5	20.5	22.0	20.5	21.0	20.0
25	15.5	15.0	18.0	16.5	21.0	19.5	21.5	20.5	21.5	20.5	21.0	20.0
26	16.0	14.5	18.0	16.5	21.0	20.0	21.5	20.5	21.5	20.5	20.5	20.0
27	16.0	15.0	18.0	16.5	21.5	20.5	---	---	21.0	20.5	20.5	19.5
28	16.0	14.5	18.5	17.0	21.5	20.5	22.0	21.0	21.0	20.0	20.5	19.5
29	15.5	14.5	18.5	17.0	22.0	20.5	22.0	21.0	21.0	20.0	20.0	19.5
30	16.0	14.5	18.5	17.0	21.5	20.5	22.5	21.0	21.0	20.0	20.0	19.5
31	---	---	18.5	17.5	---	---	22.5	21.5	20.5	20.0	---	---
MONTH	17.0	13.0	18.5	15.0	---	---	---	---	23.5	20.0	22.0	19.5

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.5	19.5	16.5	16.0	10.5	10.5	10.0	9.5	13.0	12.0	14.0	13.5
2	20.5	19.5	16.0	15.5	11.0	10.5	10.0	9.5	13.0	12.5	14.0	13.5
3	20.5	19.5	15.5	14.5	11.0	10.5	10.0	9.5	13.0	12.5	14.0	13.5
4	20.0	19.0	15.0	14.0	11.0	10.5	10.0	9.5	13.5	12.5	14.0	13.5
5	19.5	19.0	15.0	14.0	10.5	10.5	10.0	9.5	13.5	13.0	13.5	13.5
6	19.5	19.0	14.5	14.0	10.5	10.5	10.0	10.0	13.5	13.0	13.5	13.5
7	19.5	19.0	14.5	14.0	10.5	10.5	10.0	10.0	13.5	13.0	13.5	13.5
8	19.5	19.0	14.5	14.0	10.5	10.0	10.5	10.0	13.5	13.5	13.5	13.0
9	19.5	19.0	14.0	14.0	10.5	10.0	10.5	10.5	13.5	13.0	13.5	13.0
10	19.5	19.0	14.0	13.5	10.0	10.0	11.0	10.5	13.5	13.0	13.5	13.0
11	19.5	19.0	13.5	13.5	10.0	9.5	11.5	11.0	13.5	13.0	13.5	13.0
12	19.5	18.0	13.5	13.5	10.0	10.0	11.5	11.0	13.5	13.0	13.5	13.0
13	18.5	17.0	13.5	13.0	10.0	9.5	11.5	11.0	13.5	13.0	13.5	13.5
14	18.0	17.0	13.5	13.0	10.0	9.5	12.0	11.5	13.0	12.5	13.5	13.5
15	17.5	16.5	13.0	12.5	10.0	9.5	12.0	12.0	13.0	12.5	14.0	13.5
16	17.0	16.0	13.0	12.5	10.0	9.5	12.0	11.5	13.0	12.5	14.0	13.5
17	16.5	16.0	12.5	12.0	10.0	10.0	12.0	11.5	12.5	12.5	14.5	14.0
18	16.5	16.0	12.0	11.0	10.0	10.0	11.5	11.5	13.0	12.0	14.5	14.0
19	16.5	16.0	11.5	11.0	10.0	10.0	11.5	11.5	13.0	12.5	14.5	14.0
20	16.5	16.0	11.5	11.0	10.0	9.5	11.5	11.5	13.0	12.5	14.5	14.0
21	16.5	16.0	11.0	11.0	10.0	9.5	11.5	11.0	13.5	13.0	14.0	13.5
22	16.5	16.0	11.0	11.0	10.0	9.5	11.5	11.0	13.5	13.0	14.0	13.0
23	16.5	16.5	11.0	11.0	9.5	9.5	11.5	11.0	13.5	13.5	13.5	13.0
24	17.0	16.5	11.0	11.0	9.5	9.5	11.5	11.0	13.5	13.0	13.0	12.0
25	16.5	16.5	11.0	11.0	9.5	9.5	11.5	11.5	14.0	13.0	13.0	12.0
26	16.5	16.5	11.0	10.5	9.5	9.5	11.5	11.5	13.5	13.0	13.0	12.5
27	16.5	16.5	11.0	10.5	9.5	9.5	11.5	11.5	14.0	13.5	13.5	12.5
28	17.0	16.5	11.0	10.5	10.0	9.5	12.0	11.5	14.0	13.5	13.5	13.0
29	17.0	16.5	10.5	10.5	10.0	9.5	12.0	11.5	---	---	14.0	13.5
30	17.0	16.5	10.5	10.5	9.5	9.5	12.5	12.0	---	---	14.5	13.5
31	16.5	16.5	---	---	9.5	9.5	12.5	12.0	---	---	14.5	14.0
MONTH	20.5	16.0	16.5	10.5	11.0	9.5	12.5	9.5	14.0	12.0	14.5	12.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	14.0	15.5	14.5	19.5	18.0	21.5	19.5	23.0	22.5	20.5	19.5
2	15.0	14.5	16.0	15.0	19.5	18.0	21.0	20.0	23.0	22.5	20.5	19.5
3	15.0	14.0	16.5	15.5	18.5	17.5	21.5	20.5	23.0	22.0	20.5	19.5
4	15.5	14.0	16.5	16.0	18.5	17.5	21.0	20.0	23.0	21.5	20.5	19.5
5	15.0	14.0	16.5	15.5	18.5	17.5	21.5	20.0	23.0	22.0	20.5	19.5
6	14.0	13.5	16.0	15.5	18.5	17.0	21.5	20.0	23.0	21.5	20.5	19.5
7	14.0	13.5	16.0	15.5	18.0	17.0	21.5	19.5	23.0	21.0	21.0	20.0
8	14.0	13.5	16.5	16.0	18.0	17.0	21.5	20.0	23.0	21.0	21.0	20.0
9	14.0	13.5	16.5	16.0	18.0	17.5	22.0	20.5	23.0	21.0	21.5	20.0
10	14.5	13.5	17.0	16.0	18.5	17.0	22.0	20.5	23.0	21.0	21.0	20.0
11	15.0	14.0	17.0	16.0	19.0	17.5	22.0	20.5	22.5	21.0	21.0	20.0
12	15.0	14.5	17.0	16.0	19.5	17.0	22.0	20.5	22.5	21.0	21.0	20.0
13	15.5	14.5	16.5	15.5	19.0	17.0	21.5	20.5	22.5	21.0	21.0	20.0
14	15.5	14.5	16.0	15.5	19.0	17.0	22.0	20.5	22.5	21.5	21.0	20.0
15	15.0	14.0	16.5	15.5	18.5	17.0	22.5	21.0	22.5	21.5	20.5	20.0
16	14.5	14.0	16.5	15.5	18.0	17.5	23.0	21.5	22.5	21.5	20.5	20.0
17	14.5	14.0	17.0	16.0	18.0	17.0	22.5	22.0	22.0	21.5	20.5	19.5
18	14.0	13.5	17.0	16.0	18.0	17.0	22.5	22.0	22.0	21.0	20.5	19.5
19	14.0	13.5	17.5	16.5	18.0	17.5	22.5	22.0	22.0	20.5	20.5	20.0
20	14.0	13.5	17.5	17.0	18.0	17.5	22.5	22.0	22.0	20.5	20.5	20.0
21	14.0	13.5	17.5	17.0	---	---	22.5	21.5	22.0	21.0	21.0	20.5
22	14.5	13.5	17.0	16.5	18.5	17.5	22.5	21.5	22.0	21.0	21.0	20.0
23	15.5	14.0	17.0	16.0	18.5	18.0	22.5	21.5	22.0	21.0	21.0	20.0
24	15.5	14.5	17.5	16.0	19.5	18.5	22.0	21.0	22.0	20.5	21.0	20.0
25	15.5	14.5	17.5	16.0	20.0	19.0	22.0	21.0	22.0	20.5	21.0	20.0
26	15.5	14.5	18.0	16.5	20.0	19.5	22.0	21.0	21.5	20.5	21.0	20.0
27	16.0	14.5	18.5	16.5	21.0	19.5	---	---	21.5	20.5	20.5	19.5
28	16.0	14.5	18.5	17.0	21.0	20.0	22.5	21.5	21.0	20.0	20.5	19.5
29	15.5	14.5	18.5	17.0	21.5	20.5	22.5	21.5	21.0	20.0	20.0	19.5
30	15.5	14.0	19.0	17.5	21.5	20.0	22.5	21.5	21.0	20.0	20.0	19.5
31	---	---	19.0	17.5	---	---	23.0	22.0	21.0	20.0	---	---
MONTH	16.0	13.5	19.0	14.5	---	---	---	---	23.0	20.0	21.5	19.5

11162800 REDWOOD CREEK AT REDWOOD CITY, CA

LOCATION.--Lat 37°26'58", long 122°13'57", in Pulgas Grant, San Mateo County, Hydrologic Unit 18050004, at Menlo Country Club, on right bank 200 ft upstream from Alameda de Las Pulgas Bridge and 2.5 mi south of Redwood City Old Post Office.

DRAINAGE AREA.--1.82 mi^2.

PERIOD OF RECORD.--September 1959 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 83.92 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Low flow at times affected by return flow from urban irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft^3/s, Jan. 31, 1963, gage height, 9.36 ft, from rating curve extended above 180 ft^3/s on basis of slope-area measurement of peak flow and computation of peak flow through culvert; maximum gage height, 11.55 ft, Nov. 29, 1970 (backwater from culvert trash racks); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1815	*315	*6.35	Mar. 22	0700	178	4.86
Mar. 9	1000	155	4.56				

Minimum daily, 0.01 ft^3/s several days in October and November.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.01	.69	.82	1.9	.53	1.2	2.4	.26	.19	.06	.05
2	.05	.01	.55	1.2	1.7	3.2	1.2	.72	.26	.16	.06	.05
3	.04	.01	.41	3.9	1.5	3.0	1.1	.59	.27	.16	.05	.04
4	.41	.01	.41	2.6	1.3	1.2	1.1	.53	.26	.14	.05	.04
5	.06	7.0	.28	3.6	1.3	1.1	1.1	.51	.26	.11	.05	.04
6	.02	12	.20	3.6	1.2	.71	1.0	.47	.26	.09	.06	.04
7	.01	1.1	.16	12	1.3	.61	1.7	.45	.26	.09	.06	.04
8	.01	.20	.14	5.3	1.2	4.5	1.1	.40	.23	.09	.09	.04
9	.01	2.7	.12	41	1.0	34	.95	.41	.22	.07	.05	.04
10	.01	.77	.11	39	.97	44	.91	.44	.22	.07	.06	.04
11	.01	.44	.09	5.9	.92	12	.87	.43	.22	.08	.05	.05
12	.88	.35	2.0	5.0	.88	4.8	.81	.92	.22	.07	.05	.04
13	1.4	.28	.49	4.9	.86	3.3	1.3	1.9	.23	.07	.06	.05
14	.01	.22	3.6	9.6	.81	3.7	.81	2.2	.29	.07	.07	.05
15	.01	3.1	1.0	5.6	.73	2.6	1.8	.88	.28	.06	.06	.05
16	.01	.82	.89	5.9	.67	1.8	.89	.65	2.1	.05	.05	.04
17	1.9	2.6	.81	2.5	.67	1.5	.90	.54	.29	.06	.05	.12
18	1.3	1.3	.73	1.9	.61	1.8	.98	.48	.26	.07	.05	.24
19	2.2	1.1	.66	1.6	.61	1.3	.79	.47	.24	.07	.05	.05
20	.39	.99	.60	4.0	.61	31	1.1	.43	.22	.07	.05	.04
21	.01	.86	.54	4.3	.60	12	.83	.41	.19	.05	.05	.05
22	.01	.81	.47	7.1	.55	69	.71	.41	.19	.05	.05	.05
23	.01	.72	.40	11	.55	19	.64	.40	.19	.05	.05	.04
24	.01	.64	2.0	7.1	.55	7.0	.61	.39	.19	.05	.05	.04
25	.01	7.1	.75	2.9	.54	3.9	.61	.37	.19	.06	.05	.07
26	.01	4.4	.61	10	.54	2.8	.60	.36	.31	.06	.05	.09
27	.01	1.6	.47	24	.55	2.3	.73	.33	.26	.05	.05	.07
28	.01	1.4	.66	6.7	.78	2.0	.65	.31	.27	.05	.04	.08
29	.01	1.1	.42	3.5	---	1.7	1.7	.31	.22	.05	.04	.06
30	.01	.86	.33	3.0	---	1.5	.79	.33	.19	.05	.05	.05
31	.01	---	.85	2.3	---	1.3	---	.30	---	.06	.05	---
TOTAL	8.89	54.50	21.44	241.82	25.40	279.15	29.48	19.74	9.05	2.42	1.66	1.75
MEAN	.29	1.82	.69	7.80	.91	9.00	.98	.64	.30	.078	.054	.058
MAX	2.2	12	3.6	41	1.9	69	1.8	2.4	2.1	.19	.09	.24
MIN	.01	.01	.09	.82	.54	.53	.60	.30	.19	.05	.04	.04
AC-FT	18	108	43	480	50	554	58	39	18	4.8	3.3	3.5

11162800 REDWOOD CREEK AT REDWOOD CITY, CA --Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.22	.82	1.63	3.73	3.36	2.64	.93	.24	.091	.041	.031	.038
MAX	2.93	4.84	7.44	13.0	13.9	11.5	4.90	1.26	.32	.15	.10	.17
(WY)	1963	1974	1971	1967	1986	1983	1982	1983	1983	1983	1983	1982
MIN	.000	.003	.052	.065	.11	.18	.015	.003	.000	.000	.000	.000
(WY)	1960	1960	1960	1991	1977	1988	1977	1962	1961	1961	1961	1961

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1960 - 1995	
ANNUAL TOTAL	253.62		695.30			
ANNUAL MEAN	.69		1.90		1.14	
HIGHEST ANNUAL MEAN					3.67	1983
LOWEST ANNUAL MEAN					.096	1961
HIGHEST DAILY MEAN	24	Feb 19	69	Mar 22	211	Jan 21 1967
LOWEST DAILY MEAN	.00	Jul 22	.01	Oct 7	.00	Oct 1 1959
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 26	.01	Oct 21	.00	Oct 1 1959
INSTANTANEOUS PEAK FLOW			315	Jan 9	644	Jan 31 1963
INSTANTANEOUS PEAK STAGE			6.35	Jan 9	11.55	Nov 29 1970
ANNUAL RUNOFF (AC-FT)	503		1380		824	
10 PERCENT EXCEEDS	1.2		3.6		1.6	
50 PERCENT EXCEEDS	.18		.44		.10	
90 PERCENT EXCEEDS	.01		.04		.00	

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA

LOCATION.--Lat 37°25'24", long 122°11'18", in San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, at golf course on right bank 1.1 mi downstream from Los Trancos Creek, 1.1 mi west of Stanford University Post Office, and 5 mi downstream from Searsville Lake.

DRAINAGE AREA.--37.4 mi^2.

PERIOD OF RECORD.--October 1930 to September 1941, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 115.75 ft above sea level. Recording rain gage (station 372724122101201) at 345 Middlefield Road in Menlo Park, 2.5 mi northeast of gage.

REMARKS.--No estimated daily discharges. Records good. Flow slightly regulated by Searsville Lake, capacity, 952 acre-ft. Diversions of about 800 acre-ft each year upstream from station to Los Trancos and Lagunita Canals for irrigation on Stanford University Campus downstream from station. Low flow affected by wastewater from Stanford Linear Accelerator.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft^3/s, Dec. 22, 1955, gage height, 13.60 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2000	*3,320	*9.04	Mar. 9	1245	2,010	6.68
Jan. 27	1100	1,220	5.10	Mar. 22	2045	1,930	6.52

Minimum daily, 0.03 ft^3/s, Oct. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.13	2.0	6.6	65	14	52	58	13	6.5	1.3	.75
2	.15	.13	1.2	5.7	54	27	48	49	13	6.3	1.4	.78
3	.20	.14	1.2	25	46	63	44	31	14	5.9	1.5	.81
4	.47	.35	.89	21	41	43	37	24	13	5.7	1.6	.76
5	.84	4.8	.92	48	37	42	30	20	13	5.4	1.6	.75
6	.09	77	.79	41	35	27	36	21	12	5.0	1.5	.75
7	.05	14	.55	140	34	20	46	18	11	4.4	1.6	.75
8	.04	3.9	.46	71	35	28	41	16	11	3.7	1.3	5.6
9	.03	9.6	.45	704	30	827	35	15	9.9	3.4	1.1	7.3
10	.07	12	.51	1020	27	1110	31	15	9.6	3.0	1.0	2.1
11	.13	3.3	.53	230	26	547	30	16	9.4	2.9	1.3	1.2
12	.06	2.1	10	124	24	231	29	16	8.8	2.9	1.2	.92
13	.07	1.6	12	86	23	151	34	46	8.5	3.0	1.2	.79
14	.16	1.4	18	216	23	129	27	49	8.6	3.0	.95	.70
15	.19	11	16	166	20	130	33	45	9.6	2.7	.87	.69
16	.18	4.9	10	129	18	92	35	42	23	2.4	.85	.62
17	.23	4.7	8.2	75	16	75	27	28	15	2.3	.84	.59
18	.23	3.3	6.6	50	15	69	27	24	12	2.5	.84	.53
19	.29	1.9	5.4	39	15	63	22	22	10	2.4	.76	.51
20	.31	1.6	4.6	47	14	542	23	20	9.9	2.7	.75	.54
21	.17	1.4	4.5	71	13	432	17	19	9.3	2.5	.72	.60
22	.18	1.3	3.9	77	13	1020	15	19	8.8	2.4	.75	.65
23	.18	1.2	3.4	229	12	728	14	18	8.5	2.2	.84	.61
24	.18	1.2	9.4	139	12	291	11	17	8.2	2.1	.75	.59
25	.20	21	7.1	86	12	182	11	16	7.8	2.0	.91	.63
26	.17	23	4.9	127	12	136	15	14	7.1	2.1	.97	.69
27	.19	6.8	4.0	860	12	108	16	14	6.9	1.9	.76	.67
28	.24	4.8	4.9	332	13	89	17	13	6.9	1.8	.68	.70
29	.14	3.4	4.2	150	---	73	31	13	6.9	1.8	.66	.55
30	.18	2.6	3.7	106	---	64	36	13	6.7	1.6	.66	.46
31	.15	---	5.3	81	---	57	---	12	---	1.4	.69	---
TOTAL	5.88	224.55	155.60	5502.3	697	7410	870	743	311.4	97.9	31.85	33.59
MEAN	.19	7.48	5.02	177	24.9	239	29.0	24.0	10.4	3.16	1.03	1.12
MAX	.84	77	18	1020	65	1110	52	58	23	6.5	1.6	7.3
MIN	.03	.13	.45	5.7	12	14	11	12	6.7	1.4	.66	.46
AC-FT	12	445	309	10910	1380	14700	1730	1470	618	194	63	67
a	0.06	3.10	1.70	7.36	0.40	6.82	0.80	0.56	0.75	0	0	0

a Precipitation, in inches.

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.94	5.86	23.2	55.7	67.4	53.0	25.3	3.33	.87	.38	.23	.29
MAX	28.2	91.9	220	250	409	315	232	39.5	10.4	3.30	1.61	2.11
(WY)	1963	1951	1956	1952	1986	1983	1958	1983	1995	1983	1983	1973
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1931	1931	1931	1931	1931	1931	1931	1931	1931	1931	1931	1931

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1931 - 1995	
ANNUAL TOTAL	2092.30		16083.07			
ANNUAL MEAN	5.73		44.1		19.5	
HIGHEST ANNUAL MEAN					83.4	1983
LOWEST ANNUAL MEAN					.000	1931
HIGHEST DAILY MEAN	262	Feb 20	1110	Mar 10	2650	Dec 23 1955
LOWEST DAILY MEAN	.03	Sep 29	.03	Oct 9	.00	Oct 1 1930
ANNUAL SEVEN-DAY MINIMUM	.05	Sep 24	.06	Oct 7	.00	Oct 1 1930
INSTANTANEOUS PEAK FLOW			3320	Jan 9	5560	Dec 22 1955
INSTANTANEOUS PEAK STAGE			9.04	Jan 9	13.60	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	4150		31900		14100	
10 PERCENT EXCEEDS	10		77		31	
50 PERCENT EXCEEDS	1.1		8.6		.38	
90 PERCENT EXCEEDS	.11		.47		.00	

11166000 MATADERO CREEK AT PALO ALTO, CA

LOCATION.--Lat 37°25'18", long 122°08'04", in Rincon de San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank on Ash Street 150 ft upstream from Lambert Avenue Bridge and 2.1 mi southeast of Palo Alto Post Office.

DRAINAGE AREA.--7.26 mi^2.

PERIOD OF RECORD.--July 1952 to April 1991, June 1992 to current year.

REVISED RECORDS.--WDR CA-80-2: 1971, 1973-74, 1978, 1971-75(P). WDR CA-82-2: 1973-74(P), 1978(P).

GAGE.--Water-stage recorder. Datum of gage is 17.01 ft above sea level. Prior to Sept. 25, 1958, at site 150 ft downstream at different datum. Prior to Apr. 9, 1991 at same site, different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft^3/s, Jan. 24, 1983, gage height, 6.51 ft, datum then in use; maximum gage height, 9.88 ft, Dec. 23, 1955, site and datum then in use (backwater from culvert); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	unknown	*824	*6.24	Mar. 20	1330	332	4.75
Mar. 9	1115	770	6.09	Mar. 22	1730	450	5.16

Minimum daily, .01 ft^3/s, Oct. 1-3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.01	e.08	.09	e5.2	4.5	2.7	4.3	5.5	2.2	.12	.13	.06
2	e.01	e.06	.08	e3.8	4.0	13	4.0	1.9	1.7	.10	.14	.10
3	e.01	e.06	.08	e15	3.7	8.6	3.6	1.6	1.8	.10	.42	.06
4	e.21	.04	.36	e11	3.5	8.3	3.3	1.5	2.5	.06	.66	.05
5	e2.8	.61	.16	e18	3.3	8.2	3.2	1.4	2.0	.05	.29	.03
6	e.39	16	e.11	e9.1	3.3	3.7	3.1	1.5	1.9	.03	.20	.02
7	e.12	4.2	e.05	e21	6.0	3.1	3.3	1.6	1.7	.03	.13	.06
8	e.09	.17	e.06	e11	3.7	9.4	3.0	1.9	1.5	.03	.39	.08
9	e.09	4.6	e.08	e101	2.1	174	2.8	2.2	1.4	.02	.66	.11
10	e.08	1.9	e.11	e363	1.9	277	2.7	2.6	1.4	.03	.81	.07
11	e.11	.12	e.12	e64	1.8	72	2.6	2.8	1.3	.08	.85	.05
12	e.07	.06	e1.3	e15	1.7	18	2.6	3.9	1.2	.12	.48	.03
13	e.06	.06	e6.6	e12	2.1	10	3.1	6.4	1.2	.19	.57	.03
14	e.09	.11	e10	e63	2.1	11	2.4	8.5	1.4	.23	.35	.04
15	e.16	4.1	e3.1	e47	1.5	7.4	4.9	9.5	1.7	.19	.30	.10
16	e.13	.51	e1.1	e14	1.5	5.6	2.6	3.8	13	.26	.22	.05
17	e.11	2.1	e.93	e11	1.4	4.3	2.9	2.8	1.1	.31	.18	.03
18	e.12	.33	e.98	e4.1	1.4	4.4	4.7	3.0	.87	.47	.13	.04
19	e.14	.21	e.96	3.4	1.4	3.7	2.1	3.2	.70	.64	.27	.05
20	e.11	.16	e.90	14	1.4	91	2.1	3.5	.64	.69	.31	.05
21	e.12	.17	e.88	11	1.3	35	1.9	3.5	.58	.71	.28	.09
22	e.10	.17	e1.2	17	1.4	213	1.8	3.7	.34	.64	.05	.07
23	e.11	.17	e.92	27	1.3	71	1.8	3.7	.36	.44	.06	.08
24	e.10	.17	e3.8	17	1.5	21	1.7	3.6	.32	.56	.07	.09
25	e.10	14	e2.6	7.4	1.2	9.5	1.6	3.4	.22	.48	.18	.11
26	e.10	7.5	e1.5	14	1.2	7.7	1.5	3.4	.19	.36	.14	.04
27	e.12	.51	e1.0	38	1.2	6.7	2.1	3.3	.17	.32	.12	.08
28	e.19	.44	e2.3	14	4.0	5.7	1.7	3.2	.16	.73	.08	.04
29	e.11	.14	e2.0	7.7	---	5.2	4.0	3.1	.14	.83	.03	.04
30	e.13	.10	e1.3	7.7	---	4.8	1.9	2.9	.13	.81	.03	.04
31	e.12	---	e4.3	5.5	---	4.7	---	2.7	---	.53	.03	---
TOTAL	6.21	58.85	48.97	971.9	65.4	1119.7	83.3	105.6	43.82	10.16	8.56	1.79
MEAN	.20	1.96	1.58	31.4	2.34	36.1	2.78	3.41	1.46	.33	.28	.060
MAX	2.8	16	10	363	6.0	277	4.9	9.5	13	.83	.85	.11
MIN	.01	.04	.05	3.4	1.2	2.7	1.5	1.4	.13	.02	.03	.02
AC-FT	12	117	97	1930	130	2220	165	209	87	20	17	3.6

e Estimated.

11166000 MATADERO CREEK AT PALO ALTO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.42	1.51	3.36	7.83	7.08	5.48	2.09	.48	.23	.15	.14	.15
MAX	2.95	9.82	24.3	32.3	38.2	37.8	25.2	4.39	1.90	.66	.70	.66
(WY)	1973	1973	1956	1983	1973	1983	1958	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.016	.014	.000	.000	.000	.000	.000	.000	.000
(WY)	1953	1953	1954	1954	1964	1959	1954	1953	1953	1953	1953	1953

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1953 - 1995	
ANNUAL TOTAL	388.71		2524.26			
ANNUAL MEAN	1.06		6.92		2.42	
HIGHEST ANNUAL MEAN					10.9	1983
LOWEST ANNUAL MEAN					.062	1954
HIGHEST DAILY MEAN	32	Feb 19	363	Jan 10	363	Jan 10 1995
LOWEST DAILY MEAN	.00	May 11	.01	Oct 1	.00	Oct 1 1952
ANNUAL SEVEN-DAY MINIMUM	.00	May 20	.04	Jul 4	.00	Oct 1 1952
INSTANTANEOUS PEAK FLOW			824	Jan 10	1500	Jan 24 1983
INSTANTANEOUS PEAK STAGE			6.24	Jan 10	9.88	Dec 23 1955
ANNUAL RUNOFF (AC-FT)	771		5010		1750	
10 PERCENT EXCEEDS	2.2		10		2.9	
50 PERCENT EXCEEDS	.11		1.2		.13	
90 PERCENT EXCEEDS	.00		.06		.00	

11169000 GUADALUPE RIVER AT SAN JOSE, CA

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, Hydrologic Unit 18050003, on right bank 150 ft upstream from St. John Street Bridge, one block below Santa Clara Avenue, and 100 ft downstream from Los Gatos Creek.

DRAINAGE AREA.--146 mi^2.

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to 1945, published as Guadalupe Creek at San Jose.
CHEMICAL DATA: Water years 1979-91.
SEDIMENT DATA: Water years 1985-89.

REVISED RECORDS.--WSP 1315-B: 1943(M), 1945(M), 1949(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 72.00 ft above sea level.

REMARKS.--Records good except those for June and July, which are poor. Flow regulated by Lexington Reservoir 12 mi upstream and by Calero, Almaden, and Guadalupe Reservoirs, and Lake Elsman (combined usable capacity, about 42,000 acre-ft), with water released during summer for percolation in spreading basins on tributaries. Transbasin diversions from San Luis Reservoir (part of San Felipe Project), from the South Bay Aqueduct, and from Hetch Hetchy Aqueduct during the current year amounted to 115,900 acre-ft, 35,540 acre-ft, and 57,110 acre-ft, respectively. Upstream diversions by San Jose Water Works for urban use amounted to 12,340 acre-ft during the current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft^3/s, Mar. 10, 1995, gage height, 17.4 ft, from rating curve extended above 2,500 ft^3/s on basis of slope-area measurement of peak flow; no flow several days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,000 ft^3/s, Mar. 10, gage height, 17.4 ft; minimum daily, 1.4 ft^3/s, Oct. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.5	3.8	14	303	23	404	216	18	16	11	7.6
2	2.0	4.0	3.7	5.6	273	40	270	220	15	17	24	8.1
3	4.3	3.1	3.4	105	229	79	231	174	17	18	16	11
4	68	3.0	33	231	205	122	140	138	18	19	13	12
5	89	3.3	11	106	187	110	129	117	16	20	12	11
6	13	23	4.6	49	146	62	133	106	15	17	12	11
7	4.3	91	4.5	660	145	52	184	98	15	18	11	8.9
8	2.7	13	4.1	209	231	62	199	92	14	18	7.3	9.0
9	2.4	164	3.5	2150	139	3240	182	86	14	17	7.0	9.1
10	5.9	49	3.5	4460	116	e7870	168	84	13	17	7.1	9.0
11	8.1	11	4.0	862	111	4630	130	77	13	17	6.9	10
12	5.9	8.5	115	381	101	1890	62	67	13	18	6.8	11
13	8.9	7.9	44	210	99	1070	89	118	12	16	7.2	12
14	8.1	8.0	43	469	100	784	71	110	14	13	7.2	11
15	5.8	20	20	835	82	618	94	168	20	13	7.6	11
16	2.9	16	8.2	400	61	486	73	96	206	12	9.3	8.3
17	1.9	56	5.6	211	51	429	62	70	28	14	11	8.1
18	1.7	13	4.1	148	50	383	85	59	27	12	10	8.0
19	1.4	6.3	3.8	117	46	370	74	45	26	15	8.9	8.3
20	1.5	5.5	3.2	215	43	674	76	39	25	12	8.5	9.8
21	1.6	4.7	3.4	175	42	681	77	36	24	11	11	11
22	2.4	4.1	3.2	373	39	3240	64	34	24	13	11	12
23	2.8	3.9	3.4	573	42	2680	58	31	23	14	9.0	9.5
24	2.5	3.6	102	562	38	1130	56	35	23	14	8.9	9.8
25	5.5	64	13	300	36	780	44	30	20	12	8.3	9.9
26	4.0	78	5.5	208	33	606	48	21	16	12	8.3	9.4
27	3.2	8.7	4.0	377	33	496	47	21	14	10	8.6	10
28	3.0	5.2	36	373	78	468	73	21	20	11	8.0	11
29	2.8	4.1	6.5	231	---	488	106	20	21	9.7	7.6	8.1
30	2.5	4.3	4.6	239	---	347	170	20	14	10	8.3	8.2
31	2.5	---	19	250	---	250	---	20	---	9.8	8.0	---
TOTAL	272.7	688.7	526.6	15498.6	3059	34160	3599	2469	738	445.5	300.8	293.1
MEAN	8.80	23.0	17.0	500	109	1102	120	79.6	24.6	14.4	9.70	9.77
MAX	89	164	115	4460	303	7870	404	220	206	20	24	12
MIN	1.4	2.5	3.2	5.6	33	23	44	20	12	9.7	6.8	7.6
AC-FT	541	1370	1040	30740	6070	67760	7140	4900	1460	884	597	581

e Estimated.

11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.88	14.3	38.0	90.7	144	134	65.5	9.27	2.97	2.65	2.38	2.79
MAX	129	123	311	683	1080	1165	847	219	24.6	23.4	22.3	31.0
(WY)	1963	1984	1932	1952	1938	1983	1982	1983	1995	1984	1984	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1930	1930	1930	1931	1930	1931	1930	1930	1930	1930	1930	1930

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1930 - 1995	
ANNUAL TOTAL	5816.1		62051.0			
ANNUAL MEAN	15.9		170		42.2	
HIGHEST ANNUAL MEAN					270	1983
LOWEST ANNUAL MEAN					.000	1931
HIGHEST DAILY MEAN	532	Feb 17	7870	Mar 10	7870	Mar 10 1995
LOWEST DAILY MEAN	1.3	Sep 10	1.4	Oct 19	.00	Oct 1 1929
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 9	1.9	Oct 17	.00	Oct 1 1929
INSTANTANEOUS PEAK FLOW			11000	Mar 10	11000	Mar 10 1995
INSTANTANEOUS PEAK STAGE			17.40	Mar 10	17.40	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	11540		123100		30550	
10 PERCENT EXCEEDS	22		321		44	
50 PERCENT EXCEEDS	4.4		19		.40	
90 PERCENT EXCEEDS	2.3		4.0		.00	

11169500 SARATOGA CREEK AT SARATOGA, CA

LOCATION.--Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank on upstream side of private road bridge, 0.5 mi southwest of Saratoga, and 0.7 mi downstream from diversion dam.

DRAINAGE AREA.--9.22 mi^2.

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1951, published as Campbell Creek at Saratoga. CHEMICAL DATA: Water years 1972 to December 1972.

REVISED RECORDS.--WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 500 ft above sea level, from topographic map. Prior to Dec. 6, 1968, at site 40 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records poor. Water is diverted for municipal use by San Jose Water Works at diversion dam upstream from station. Low flows partially regulated by Lake McKenzie 8 mi upstream, usable capacity, 184 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft^3/s, Dec. 22, 1955, gage height, 6.40 ft, site and datum then in use, from rating curve extended above 510 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 110 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2045	867	5.71	Mar. 9	1200	*1,200	*6.28
Jan. 23	0330	197	4.05	Mar. 22	1915	382	4.56

Minimum daily, 0.15 ft^3/s, Oct. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.36	.45	.56	36	3.9	40	38	3.4	.71	.68	.87
2	.27	.35	.44	.65	30	8.4	37	35	5.4	1.3	.67	.84
3	.28	.33	.42	10	25	12	33	27	3.6	.83	.69	.89
4	1.6	.35	1.3	11	22	9.0	30	20	3.0	.59	.79	.90
5	.81	2.2	.37	15	19	8.1	29	17	2.9	.86	.82	.99
6	.25	9.4	.31	8.8	17	7.5	28	15	2.5	.66	.95	.87
7	.22	4.9	.28	93	14	8.0	29	13	3.1	.72	1.5	.78
8	.19	2.0	.46	82	14	15	26	9.3	3.7	.80	2.5	.84
9	.16	4.5	.57	270	11	454	21	8.5	4.0	.99	.76	.71
10	.15	3.7	.58	472	9.9	648	21	8.1	3.4	1.4	.82	.71
11	.18	.53	.54	102	8.6	372	17	7.4	3.2	.62	.78	.95
12	.18	.38	3.8	63	7.7	205	15	8.1	3.7	.73	.75	1.6
13	.21	.32	4.0	83	7.1	114	17	19	3.5	.74	.67	.63
14	.24	.30	7.2	140	6.3	92	15	21	3.5	.71	.68	.55
15	.19	2.0	2.8	125	5.8	73	17	22	2.6	1.3	.68	.53
16	.16	.45	.54	91	5.3	60	19	24	6.1	2.8	.85	.90
17	.16	1.4	.54	66	6.2	50	18	20	2.9	1.5	.99	1.7
18	.16	1.8	.49	52	5.8	45	18	17	2.4	.83	1.3	1.9
19	.18	1.2	.42	44	5.2	39	18	13	2.2	.87	1.3	1.9
20	.20	.44	.80	48	5.3	59	17	9.5	2.1	.93	2.0	1.9
21	.18	.31	1.2	50	5.1	65	14	8.4	2.1	.91	1.4	1.9
22	.18	.35	.84	74	4.8	255	13	6.2	1.9	.82	1.3	1.5
23	.21	.32	.63	124	4.2	254	10	6.2	1.7	.93	1.3	1.1
24	.19	.32	2.4	80	3.8	160	9.4	5.1	1.3	1.1	1.1	1.1
25	.22	5.7	.68	56	3.6	118	9.3	5.1	1.3	.85	.86	1.1
26	.27	5.8	.71	44	3.1	95	9.5	4.2	1.4	2.1	1.0	1.1
27	.36	.77	1.4	68	3.5	80	13	3.9	1.3	.75	.96	1.3
28	.39	.56	.79	71	3.4	67	12	3.9	1.9	.71	1.1	1.3
29	.37	.45	.54	62	---	60	28	5.2	1.1	.62	.79	1.4
30	.35	.47	.53	50	---	53	28	4.7	2.2	.56	.69	1.4
31	.34	---	.42	42	---	45	---	4.3	---	.55	.76	---
TOTAL	9.12	51.96	36.45	2498.01	292.7	3534.9	611.2	409.1	83.4	29.79	31.44	34.16
MEAN	.29	1.73	1.18	80.6	10.5	114	20.4	13.2	2.78	.96	1.01	1.14
MAX	1.6	9.4	7.2	472	36	648	40	38	6.1	2.8	2.5	1.9
MIN	.15	.30	.28	.56	3.1	3.9	9.3	3.9	1.1	.55	.67	.53
AC-FT	18	103	72	4950	581	7010	1210	811	165	59	62	68
a	0	45	121	129	297	127	252	274	290	233	152	44

a Diversion, in acre-feet, for municipal use, provided by San Jose Water Works.

11169500 SARATOGA CREEK AT SARATOGA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.87	2.73	9.08	21.6	28.9	23.6	13.9	3.86	1.28	.54	.35	.35
MAX	17.5	25.5	83.2	87.8	135	114	131	35.7	6.97	2.95	1.60	1.54
(WY)	1963	1951	1956	1952	1986	1983	1982	1983	1941	1941	1941	1974
MIN	.000	.037	.25	.31	.086	.32	.24	.065	.000	.000	.000	.000
(WY)	1950	1949	1957	1976	1964	1972	1972	1959	1950	1947	1934	1934

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1934 - 1995	
ANNUAL TOTAL	666.17		7622.23			
ANNUAL MEAN	1.83		20.9		8.82	
HIGHEST ANNUAL MEAN					32.5	1983
LOWEST ANNUAL MEAN					.54	1977
HIGHEST DAILY MEAN	54	Feb 19	648	Mar 10	1260	Feb 27 1940
LOWEST DAILY MEAN	.15	Oct 10	.15	Oct 10	.00	Oct 1 1933
ANNUAL SEVEN-DAY MINIMUM	.17	Oct 16	.17	Oct 16	.00	Oct 1 1933
INSTANTANEOUS PEAK FLOW			1200	Mar 9	2730	Dec 22 1955
INSTANTANEOUS PEAK STAGE			6.28	Mar 9	6.40	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	1320		15120		6390	
10 PERCENT EXCEEDS	2.7		54		19	
50 PERCENT EXCEEDS	.55		2.2		.80	
90 PERCENT EXCEEDS	.30		.35		.00	

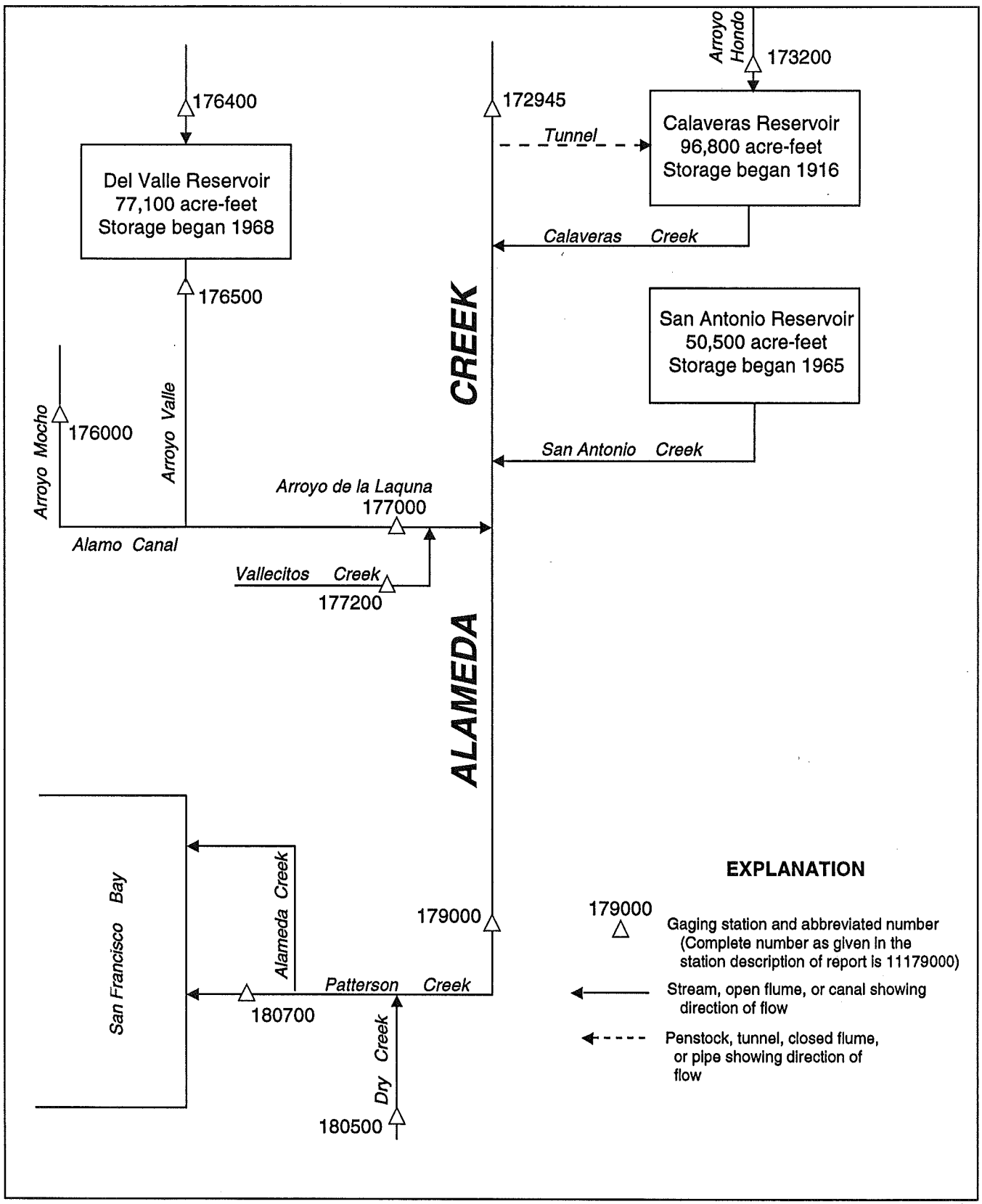


Figure 20. Diversions and storage in Alameda Creek basin.

11172945 ALAMEDA CREEK ABOVE DIVERSION DAM NEAR SUNOL, CA

LOCATION.--Lat 37°29'51", long 121°46'21", in SE 1/4 NE 1/4 sec.17, T.5 S., R.2 E., Alameda County, Hydrologic Unit 18050004, on right bank 700 ft upstream from diversion dam, and 9.3 mi southeast of Sunol.

DRAINAGE AREA.--33.3 mi^2

PERIOD OF RECORD.--October 1994 to September 1995.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 930 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from gage. See schematic diagram of Alameda Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,390 ft^3/s, Jan. 9, 1995, gage height, 7.96 ft from rating curve extended above 100 ft^3/s on basis of flow over dam computation; no flow several days in 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 5	1045	868	4.61	Mar. 10	1630	1,810	6.15
Jan. 9	2300	*3,390	*7.96	Mar. 22	2115	2,300	6.78

No flow for several days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e.10	3.6	2.1	48	9.4	48	26	13	4.9	.95	.39
2	.00	e.07	2.8	2.4	39	10	42	25	13	4.6	.82	.40
3	.00	e.04	2.8	18	32	15	37	21	13	4.4	.74	.40
4	.01	e.15	4.4	123	28	14	34	19	12	4.3	.73	.39
5	.01	.20	9.8	521	24	13	31	18	12	e4.1	.66	.40
6	.00	.07	2.9	211	22	12	29	17	12	e3.9	.53	.43
7	.03	.08	2.0	432	20	11	29	16	12	e3.7	.50	.44
8	.02	.05	2.1	176	19	10	27	15	11	e3.6	.53	.48
9	.01	.33	1.9	395	18	163	24	14	10	e3.3	.63	.56
10	.02	.19	1.8	1200	16	817	21	14	10	e3.2	.70	.62
11	.02	.08	1.8	354	16	599	19	14	9.8	e3.0	.76	.61
12	e.02	.08	2.6	209	15	300	18	15	9.3	e2.9	.66	.54
13	.00	.08	31	120	14	159	19	91	8.9	e3.1	.57	.52
14	.00	.11	38	395	15	103	17	77	9.0	e2.9	.53	.45
15	.00	.21	49	484	13	81	16	66	12	e2.8	.51	.45
16	.00	.14	13	252	12	54	17	49	18	e2.6	.53	.43
17	.00	.59	6.5	132	12	44	14	39	13	e2.4	.50	.40
18	.00	.30	4.3	79	11	38	15	35	11	e2.3	.46	.33
19	.00	.30	2.9	55	11	35	13	32	10	e2.3	.38	.24
20	.00	.29	2.4	47	11	311	15	29	9.5	e2.1	.36	.20
21	.00	.26	2.1	48	10	367	13	26	8.8	e2.1	.44	.19
22	.00	.26	1.8	48	9.6	1090	11	25	8.1	2.0	.42	.22
23	.00	.24	1.7	110	9.3	903	9.3	23	7.6	1.9	.41	.21
24	.00	.20	2.0	287	8.9	495	8.5	22	7.1	1.9	.45	.22
25	e.00	.78	3.1	170	8.7	281	8.3	20	6.5	1.8	.49	.24
26	e.00	1.0	2.5	132	8.3	180	8.2	19	6.0	1.7	.47	.24
27	e.01	.77	2.3	616	8.0	126	9.5	18	5.5	1.6	.40	.20
28	e.03	7.1	2.2	358	8.8	95	11	17	5.4	1.4	.40	.21
29	e.02	7.8	2.2	180	---	77	13	16	5.1	1.4	.40	.22
30	e.01	4.7	2.1	103	---	64	18	14	5.0	1.2	.36	.18
31	e.06	---	2.1	65	---	54	---	14	---	1.0	.36	---
TOTAL	0.27	26.57	209.7	7324.5	467.6	6530.4	594.8	846	293.6	84.4	16.65	10.81
MEAN	.009	.89	6.76	236	16.7	211	19.8	27.3	9.79	2.72	.54	.36
MAX	.06	7.8	49	1200	48	1090	48	91	18	4.9	.95	.62
MIN	.00	.04	1.7	2.1	8.0	9.4	8.2	14	5.0	1.0	.36	.18
AC-FT	.5	53	416	14530	927	12950	1180	1680	582	167	33	21

WTR YR 1995 TOTAL 16405.30 MEAN 44.9 MAX 1200 MIN .00 AC-FT 32540

e Estimated.

11173200 ARROYO HONDO NEAR SAN JOSE, CA

LOCATION.--Lat 37°27'42", long 121°46'06", in NE 1/4 NE 1/4 sec.32, T.5 S., R.2 E., Santa Clara County, Hydrologic Unit 18050004, on right bank 150 ft upstream from road bridge, 3.5 mi southeast of Calaveras Dam, 3.5 mi northeast of city limits of San Jose.

DRAINAGE AREA.--77.1 mi^2.

PERIOD OF RECORD.--October 1968 to September 1981, October 1994 to September 1995.

GAGE.--Water-stage recorder. Datum of gage is 783.86 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. See schematic diagram of Alameda Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,020 ft^3/s, Mar. 22, 1995, gage height, 14.84 ft; minimum daily, 0.11 ft^3/s, July 28-30, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	1200	6,080	14.17	Jan. 27	1530	1,640	9.89
Jan. 14	2015	1,389	9.51	Mar. 10	1345	5,810	13.95
Jan. 24	1230	1,320	9.43	Mar. 22	1930	*7,020	*14.84

Minimum daily, 0.22 ft^3/s, Oct. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	e.41	4.6	4.4	155	32	114	51	21	10	4.4	2.7
2	.30	e.37	3.8	4.5	132	31	108	49	21	10	4.3	2.7
3	.32	e.36	3.2	11	115	30	103	46	21	9.9	4.3	2.7
4	.43	e.55	3.2	166	103	29	99	42	20	9.8	4.1	2.7
5	.33	.77	3.4	443	94	28	96	40	20	9.6	4.0	2.7
6	.27	.79	4.3	204	87	28	91	38	19	9.1	4.0	2.5
7	.26	.85	4.4	328	81	28	89	38	19	8.8	3.9	2.3
8	.25	.83	4.3	155	76	39	87	38	18	8.8	3.7	2.3
9	.24	1.1	4.0	434	72	331	85	37	17	8.6	3.7	2.3
10	.24	1.0	3.5	3580	68	2820	82	36	17	8.5	3.6	2.4
11	.22	.95	3.4	756	64	1640	79	33	17	8.6	3.6	2.4
12	.24	1.0	3.9	414	63	826	77	28	16	8.8	3.6	2.3
13	.26	1.3	9.8	293	60	468	77	46	15	9.2	3.6	2.3
14	.27	2.0	13	635	63	352	74	56	15	8.7	3.5	2.4
15	.27	2.2	e20	950	60	295	73	36	19	8.2	3.5	2.4
16	.25	2.1	e16	451	57	256	71	30	25	7.8	3.4	2.4
17	.25	2.4	e15	266	53	231	66	26	20	7.8	3.4	2.4
18	.26	2.5	e11	180	49	218	65	24	17	7.7	3.2	2.4
19	.27	3.3	e8.5	137	48	211	62	24	16	7.7	3.1	2.4
20	.26	3.3	e7.1	119	45	351	62	23	15	7.6	3.1	2.3
21	.24	2.9	5.3	138	44	514	60	23	15	7.6	3.1	2.3
22	.25	2.6	5.2	128	43	2970	57	23	14	7.6	3.1	2.3
23	.27	2.5	4.8	350	40	2090	53	25	13	7.3	2.9	2.4
24	.29	2.3	5.3	735	38	767	51	23	13	6.8	2.9	2.3
25	.31	2.8	7.7	402	36	459	48	22	12	6.8	2.9	2.3
26	.32	4.7	8.1	273	35	325	46	22	11	6.3	2.8	2.0
27	.36	7.5	6.7	1310	34	247	45	22	11	5.9	2.7	2.0
28	e.36	6.1	6.1	731	33	195	45	22	11	5.6	2.6	2.1
29	e.32	6.8	5.8	357	---	159	45	22	10	5.4	2.6	2.0
30	e.35	5.5	5.1	251	---	134	50	22	10	5.2	2.5	2.1
31	e.37	---	4.7	190	---	121	---	21	---	4.8	2.6	---
TOTAL	8.93	71.78	211.2	14395.9	1848	16225	2160	988	488	244.5	104.7	70.8
MEAN	.29	2.39	6.81	464	66.0	523	72.0	31.9	16.3	7.89	3.38	2.36
MAX	.43	7.5	20	3580	155	2970	114	56	25	10	4.4	2.7
MIN	.22	.36	3.2	4.4	33	28	45	21	10	4.8	2.5	2.0
AC-FT	18	142	419	28550	3670	32180	4280	1960	968	485	208	140

e Estimated.

11173200 ARROYO HONDO NEAR SAN JOSE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.40	11.7	40.6	171	174	151	48.1	13.6	5.73	2.45	1.21	.96
MAX	3.73	69.4	182	464	533	523	178	31.9	16.3	7.89	3.38	2.36
(WY)	1974	1973	1974	1995	1980	1995	1974	1995	1995	1995	1995	1995
MIN	.24	.67	1.42	3.35	2.98	5.58	2.93	1.67	.74	.33	.18	.25
(WY)	1978	1978	1977	1976	1977	1977	1977	1976	1976	1977	1972	1977

SUMMARY STATISTICS	FOR 1995 WATER YEAR		WATER YEARS 1969 - 1995	
ANNUAL TOTAL	36816.81			
ANNUAL MEAN	101		51.2	
HIGHEST ANNUAL MEAN			101	1995
LOWEST ANNUAL MEAN			2.12	1977
HIGHEST DAILY MEAN	3580	Jan 10	3580	Jan 10 1995
LOWEST DAILY MEAN	.22	Oct 11	.11	Jul 28 1972
ANNUAL SEVEN-DAY MINIMUM	.24	Oct 7	.13	Jul 27 1972
INSTANTANEOUS PEAK FLOW	7020	Mar 22	7020	Mar 22 1995
INSTANTANEOUS PEAK STAGE	14.84	Mar 22	14.84	Mar 22 1995
ANNUAL RUNOFF (AC-FT)	73030		37110	
10 PERCENT EXCEEDS	223		101	
50 PERCENT EXCEEDS	10		3.8	
90 PERCENT EXCEEDS	.78		.56	

11176000 ARROYO MOCHO NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'35", long 121°42'13", in NW 1/4 SE 1/4 sec.36, T.3 S., R.2 E., Alameda County, Hydrologic Unit 18050004, on right bank 40 ft downstream from Mines Road Bridge, 2.4 mi upstream from small right-bank tributary, and 5.2 mi southeast of Livermore.

DRAINAGE AREA.--38.2 mi^2.

PERIOD OF RECORD.--January 1912 to September 1930, October 1963 to current year. Records for water year 1914 incomplete; yearly estimate and monthly discharge only for some months, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 746.49 ft above sea level. January 1912 to October 1914, at present site at different datum. November 1914 to Sept. 30, 1930, at site 1 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,250 ft^3/s, Jan. 24, 1983, gage height, 8.80 ft, from rating curve extended above 600 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 10.44 ft, Feb. 19, 1986, from floodmarks; no flow for parts of most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a discharge of 1,880 ft^3/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	1130	596	7.63	Mar. 10	1600	*2,000	*9.29
Jan. 15	0545	130	5.28	Mar. 22	2245	1,640	8.64
Jan. 24	1245	220	5.83				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	1.0	11	1.6	13	7.0	1.0	3.4	.41	.12
2	.00	.00	.00	.94	7.4	1.9	12	7.2	1.2	3.2	.37	.12
3	.00	.00	.00	2.5	5.0	3.4	11	6.0	1.5	2.9	.33	.12
4	.00	.00	.00	11	3.4	3.5	9.4	5.2	1.8	2.6	.29	.12
5	.00	.00	.00	50	2.8	2.8	8.6	4.7	1.9	2.2	.27	.12
6	.00	.00	.00	24	2.4	2.9	8.0	4.6	1.8	1.8	.25	.13
7	.00	.00	.00	51	2.1	2.6	7.6	4.3	1.7	1.5	.24	.11
8	.00	.00	.00	37	1.9	2.1	7.9	4.3	1.9	1.2	.24	.11
9	.00	.00	.00	48	1.6	39	7.6	4.3	2.5	1.0	.24	.11
10	.00	.00	.00	279	1.1	850	6.9	4.2	3.0	1.0	.22	.10
11	.00	.00	.02	88	1.0	428	6.5	4.0	3.4	.95	.20	.11
12	.00	.00	.10	35	.97	119	6.1	3.9	3.5	.89	.21	.11
13	.00	.00	.31	21	.92	43	5.9	6.8	3.7	.90	.21	.11
14	.00	.00	.69	28	1.4	39	6.0	7.1	4.0	.78	.21	.11
15	.00	.00	1.0	70	1.0	28	5.7	6.4	4.4	.73	.20	.13
16	.00	.00	1.2	42	.72	20	5.8	5.0	7.3	.70	.20	.12
17	.00	.00	.82	22	.64	15	5.7	4.3	5.4	.65	.20	.13
18	.00	.00	.62	13	.53	13	5.5	3.8	5.0	.65	.18	.12
19	.00	.00	.53	7.8	.48	11	5.8	3.2	5.2	.59	.20	.13
20	.00	.00	.49	6.3	.47	31	5.6	2.8	5.4	.59	.18	.11
21	.00	.00	.47	12	.43	33	5.7	2.4	5.2	.56	.18	.11
22	.00	.00	.47	8.2	.38	414	5.4	2.1	5.2	.59	.18	.10
23	.00	.00	.51	49	.55	545	5.2	1.9	4.9	.59	.18	.10
24	.00	.00	.63	116	.92	e120	5.0	1.6	4.6	.59	.18	.10
25	.00	.00	.68	54	.81	63	4.7	1.5	4.0	.59	.17	.10
26	.00	.00	.71	34	.77	46	4.6	1.3	3.7	.54	.12	.11
27	.00	.00	.70	39	.76	34	4.5	1.2	3.5	.52	.13	.11
28	.00	.00	.83	38	1.1	30	4.7	1.1	3.6	.47	.12	.13
29	.00	.00	.82	29	---	24	4.9	1.0	3.5	.47	.13	.13
30	.00	.00	.74	21	---	19	6.0	.93	3.5	.44	.12	.13
31	.00	---	.84	15	---	16	---	.90	---	.42	.12	---
TOTAL	0.00	0.00	13.18	1252.74	52.55	3000.8	201.3	115.03	107.3	34.01	6.48	3.46
MEAN	.000	.000	.43	40.4	1.88	96.8	6.71	3.71	3.58	1.10	.21	.12
MAX	.00	.00	1.2	279	11	850	13	7.2	7.3	3.4	.41	.13
MIN	.00	.00	.00	.94	.38	1.6	4.5	.90	1.0	.42	.12	.10
AC-FT	.00	.00	26	2480	104	5950	399	228	213	67	13	6.9

e Estimated.

11176000 ARROYO MOCHO NEAR LIVERMORE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.097	.86	3.59	13.2	20.7	14.3	4.77	1.54	.58	.20	.087	.075
MAX	1.55	11.6	33.2	122	100	155	41.8	21.5	6.96	4.04	2.57	2.47
(WY)	1984	1984	1984	1983	1915	1983	1982	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1913	1915	1919	1991	1991	1924	1924	1920	1913	1913	1913	1913

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1913 - 1995	
ANNUAL TOTAL	374.92		4786.85			
ANNUAL MEAN	1.03		13.1		5.00	
HIGHEST ANNUAL MEAN					38.8	1983
LOWEST ANNUAL MEAN					.035	1924
HIGHEST DAILY MEAN	65	Feb 20	850	Mar 10	1510	Mar 1 1983
LOWEST DAILY MEAN	.00	Aug 8	.00	Oct 1	.00	Oct 1 1912
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 8	.00	Oct 1	.00	Oct 1 1912
INSTANTANEOUS PEAK FLOW			2000	Mar 10	2250	Jan 24 1983
INSTANTANEOUS PEAK STAGE			9.29	Mar 10	10.44	Feb 19 1986
ANNUAL RUNOFF (AC-FT)	744		9490		3630	
10 PERCENT EXCEEDS	1.4		21		6.1	
50 PERCENT EXCEEDS	.20		.90		.20	
90 PERCENT EXCEEDS	.00		.00		.00	

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA

LOCATION.--Lat 37°33'41", long 121°40'58", in NE 1/4 NE 1/4 sec.30, T.4 S., R.3 E., Alameda County, Hydrologic Unit 18050004, on left bank 100 ft upstream from small left-bank tributary, 1.2 mi downstream from Lang Canyon, and 9.5 mi southeast of Livermore.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1974, published as "above Lang Canyon, near Livermore."

GAGE.--Water-stage recorder. Concrete control since June 19, 1975. Elevation of gage is 750 ft above sea level, from topographic map. Prior to June 19, 1975, at site 1.4 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,790 ft^3/s, Feb. 17, 1986, gage height, 7.36 ft, from rating curve extended above 1,000 ft^3/s on basis of slope-area measurements at gage heights 4.13, 5.40, and 7.36 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	0515	4,330	4.71	Mar. 10	1600	*8,490	*7.18
Jan. 15	0730	723	2.29	Mar. 22	2215	5,640	5.48
Jan. 24	1530	2,550	3.64				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.94	1.5	121	18	109	46	11	4.6	.30	.00
2	.00	.00	.62	1.5	100	19	98	44	10	4.1	.22	.00
3	.00	.00	.65	6.6	82	24	88	36	11	3.9	.13	.00
4	.00	.00	.70	32	69	24	81	31	10	3.6	.11	.00
5	.00	.00	.65	145	60	27	75	28	10	3.4	.08	.00
6	.00	.00	1.0	77	52	27	70	27	10	2.7	.04	.00
7	.00	.00	.74	128	48	22	67	25	10	2.3	.00	.00
8	.00	.00	.60	86	45	20	68	25	10	2.3	.00	.00
9	.00	.00	.52	255	41	353	62	23	9.3	1.9	.00	.00
10	.00	.00	.51	3220	37	3760	57	23	8.6	1.8	.00	.00
11	.00	.00	.34	860	33	2240	53	21	8.4	1.8	.00	.00
12	.00	.00	1.3	338	32	929	50	19	8.6	1.7	.00	.00
13	.00	.00	5.7	252	30	450	50	59	11	1.9	.00	.00
14	.00	.00	8.1	321	32	334	47	50	11	2.1	.00	.00
15	.00	.00	15	618	31	259	45	47	16	1.8	.00	.00
16	.00	.00	9.2	325	26	196	47	36	25	1.5	.00	.00
17	.00	.00	5.2	186	23	158	43	27	21	1.5	.00	.00
18	.00	.00	3.4	123	23	133	42	21	16	1.5	.00	.00
19	.00	.00	2.6	91	21	116	39	18	16	1.5	.00	.00
20	.00	.00	1.9	77	21	257	39	15	15	1.5	.00	.00
21	.00	.00	1.8	99	19	372	37	12	13	1.5	.00	.00
22	.00	.00	1.5	90	19	2020	34	12	12	1.3	.00	.00
23	.00	.00	1.5	437	19	2690	32	11	11	1.2	.00	.00
24	.00	.00	1.8	1240	17	1010	30	8.8	10	1.0	.00	.00
25	.00	1.4	1.9	696	17	552	28	9.5	8.5	1.0	.00	.00
26	.00	15	2.1	316	17	345	28	9.0	7.2	1.0	.00	.00
27	.00	6.0	1.9	634	15	252	28	8.8	6.0	.88	.00	.00
28	.00	8.9	1.6	568	16	202	31	9.0	5.8	.68	.00	.00
29	.00	4.2	1.5	320	---	169	34	9.6	5.0	.55	.00	.00
30	.00	1.7	1.5	212	---	143	40	9.9	5.0	.47	.00	.00
31	.00	---	1.5	155	---	124	---	9.3	---	.40	.00	---
TOTAL	0.00	37.20	78.27	11910.6	1066	17245	1552	729.9	331.4	57.38	0.88	0.00
MEAN	.000	1.24	2.52	384	38.1	556	51.7	23.5	11.0	1.85	.028	.000
MAX	.00	15	15	3220	121	3760	109	59	25	4.6	.30	.00
MIN	.00	.00	.34	1.5	15	18	28	8.8	5.0	.40	.00	.00
AC-FT	.00	74	155	23620	2110	34210	3080	1450	657	114	1.7	.00

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.24	7.48	29.9	107	126	105	39.2	8.78	2.52	.61	.18	.11
MAX	3.12	79.2	216	492	779	625	322	71.5	17.3	7.43	3.67	2.00
(WY)	1984	1983	1984	1983	1986	1983	1982	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.24	.82	.14	.001	.000	.000	.000	.000
(WY)	1965	1977	1990	1991	1991	1977	1977	1977	1976	1964	1964	1964

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	1658.54		33008.63			
ANNUAL MEAN	4.54		90.4		35.2	
HIGHEST ANNUAL MEAN					174	1983
LOWEST ANNUAL MEAN					.24	1977
HIGHEST DAILY MEAN	129	Feb 20	3760	Mar 10	4860	Feb 19 1986
LOWEST DAILY MEAN	.00	Jun 11	.00	Oct 1	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 11	.00	Oct 1	.00	Oct 1 1963
INSTANTANEOUS PEAK FLOW			8490	Mar 10	8790	Feb 17 1986
INSTANTANEOUS PEAK STAGE			7.18	Mar 10	7.36	Feb 17 1986
ANNUAL RUNOFF (AC-FT)	3290		65470		25470	
10 PERCENT EXCEEDS	9.1		156		49	
50 PERCENT EXCEEDS	.65		5.8		1.2	
90 PERCENT EXCEEDS	.00		.00		.00	

11176500 ARROYO VALLE NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 900 ft downstream from highway bridge, 1.1 mi upstream from Dry Creek, 1.3 mi downstream from Del Valle Dam, 4.1 mi south of Livermore, and 6.9 mi southeast of Pleasanton.

DRAINAGE AREA.--147 mi^2.

PERIOD OF RECORD.--January 1912 to September 1930, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as Arroyo del Valle near Livermore, 1912-29.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 510.44 ft above sea level. Prior to November 1914, at site 900 ft upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Del Valle Reservoir 1.3 mi upstream beginning in September 1968, capacity, 77,100 acre-ft. Water from Sacramento-San Joaquin Delta imported through South Bay Aqueduct can be pumped into Del Valle Reservoir for storage and later released into the channel for downstream percolation or returned to the South Bay Aqueduct.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft^3/s, Apr. 2, 1958, gage height, 10.91 ft; no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 2,850 ft^3/s, Mar. 3, 1983, gage height, 8.89 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 13.9 ft from floodmarks, discharge, 18,200 ft^3/s, on basis of contracted-opening and slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,020 ft^3/s, Mar. 11, gage height, 8.03 ft; minimum daily, 0.09 ft^3/s, Sept 6, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.29	.43	.52	28	1.5	3.1	1.3	1.7	.22	1.5	.20
2	.26	3.1	.38	.52	4.4	1.7	2.9	.98	2.0	.23	1.5	.25
3	.27	10	.48	.88	3.8	1.9	2.4	.88	1.2	.26	1.6	.46
4	.34	11	.60	.65	3.5	1.7	2.3	.83	1.2	.31	1.7	.42
5	.44	11	.62	1.0	3.3	1.7	2.2	.88	1.2	.38	1.6	.13
6	.34	11	.62	.79	3.2	1.7	2.1	.86	1.0	.51	1.7	.09
7	.28	6.9	.62	1.5	3.2	1.7	2.1	.88	.85	.55	1.7	.09
8	.27	.71	.62	.98	2.9	1.7	2.1	.88	.84	.51	1.7	.12
9	.27	.96	.62	1.9	2.9	3.2	2.0	.98	.88	.47	1.6	.14
10	.34	.93	.62	4.8	2.9	8.7	1.9	1.0	.94	.45	1.6	.17
11	.27	.67	.62	1.7	2.9	1150	1.9	1.0	.96	.13	1.7	.19
12	.25	.45	.75	1.3	3.0	1870	1.9	1.2	1.0	.17	1.7	.22
13	.24	.38	.66	1.1	3.3	1830	2.1	1.8	1.2	.16	1.6	.30
14	.26	.35	.61	2.3	3.6	1370	2.0	1.3	1.6	.16	1.5	.38
15	.27	.33	.61	3.2	3.4	409	2.4	1.3	2.2	.14	1.6	.45
16	.24	.34	.54	1.7	3.2	11	2.2	1.2	1.8	.18	1.6	.43
17	.24	.51	.52	25	3.2	4.2	2.2	1.3	1.2	.24	1.7	.42
18	.24	.41	.55	60	3.1	4.2	2.3	1.1	1.1	.21	1.8	.36
19	.26	.36	.52	59	2.9	5.2	2.3	1.1	1.0	.16	1.7	.34
20	.26	.36	.52	59	2.8	8.8	2.3	1.2	.76	.18	1.7	.30
21	.26	.36	.52	59	2.3	246	2.3	1.6	.60	.19	1.7	.33
22	.24	.33	.52	60	2.3	452	2.2	1.4	.59	.16	1.7	.39
23	.24	.29	.52	287	2.1	11	2.2	1.5	.58	.18	1.7	.46
24	.26	.30	.62	935	1.9	1020	2.0	1.5	.58	.20	1.8	.49
25	.26	.82	.62	1130	1.9	1360	1.7	1.5	.58	.66	1.9	.46
26	.26	.79	.52	408	1.8	1350	1.1	1.4	.64	1.2	1.9	.49
27	.27	.53	.50	167	1.4	1330	1.2	1.5	.70	1.3	1.8	.48
28	.29	.47	.50	982	1.6	940	1.1	1.5	.63	1.3	1.4	.32
29	.28	.43	.43	546	---	7.0	1.2	1.5	.26	1.4	.19	.17
30	.27	.43	.43	55	---	5.0	1.2	1.5	.22	1.4	.15	.16
31	.26	---	.48	54	---	3.7	---	1.4	---	1.4	.15	---
TOTAL	8.50	64.80	17.17	4910.84	104.8	13412.6	60.9	38.27	30.01	15.01	47.19	9.21
MEAN	.27	2.16	.55	158	3.74	433	2.03	1.23	1.00	.48	1.52	.31
MAX	.44	11	.75	1130	28	1870	3.1	1.8	2.2	1.4	1.9	.49
MIN	.24	.29	.38	.52	1.4	1.5	1.1	.83	.22	.13	.15	.09
AC-FT	17	129	34	9740	208	26600	121	76	60	30	94	18

11176500 ARROYO VALLE NEAR LIVERMORE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1968, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.016	2.63	18.0	87.6	146	51.4	47.2	7.37	1.83	.32	.089	.021
MAX	.15	69.2	125	851	522	280	620	57.8	9.47	2.28	.83	.24
(WY)	1967	1927	1965	1914	1915	1958	1958	1915	1967	1967	1958	1958
MIN	.000	.000	.000	.000	.000	.000	.000	.094	.000	.000	.000	.000
(WY)	1914	1914	1918	1918	1920	1924	1924	1924	1918	1914	1913	1913

SUMMARY STATISTICS	WATER YEARS 1912 - 1968		
ANNUAL MEAN	29.6		
HIGHEST ANNUAL MEAN	118		1914
LOWEST ANNUAL MEAN	.008		1924
HIGHEST DAILY MEAN	5930	Jan 25	1914
LOWEST DAILY MEAN	.00	Sep 22	1912
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 22	1912
INSTANTANEOUS PEAK FLOW	12200	Apr 2	1958
INSTANTANEOUS PEAK STAGE	10.91	Apr 2	1958
ANNUAL RUNOFF (AC-FT)	21460		
10 PERCENT EXCEEDS	35		
50 PERCENT EXCEEDS	.20		
90 PERCENT EXCEEDS	.00		

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9.72	9.05	8.35	36.2	79.0	73.5	21.5	6.16	9.22	14.5	13.1	10.2
MAX	43.2	39.4	35.9	440	549	653	334	30.8	51.7	46.0	54.3	48.1
(WY)	1971	1981	1981	1983	1986	1983	1982	1970	1980	1980	1981	1981
MIN	.17	.30	.36	.35	.30	.36	.22	.23	.15	.079	.11	.16
(WY)	1987	1987	1989	1990	1991	1994	1990	1990	1990	1985	1989	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	181.60		18719.30			
ANNUAL MEAN	.50		51.3		23.9	
HIGHEST ANNUAL MEAN					131	1983
LOWEST ANNUAL MEAN					.44	1987
HIGHEST DAILY MEAN	11	Nov 4	1870	Mar 12	2370	Mar 3 1983
LOWEST DAILY MEAN	.11	Jul 26	.09	Sep 6	.00	Jun 25 1983
ANNUAL SEVEN-DAY MINIMUM	.14	Jul 25	.13	Sep 5	.05	Jun 24 1983
INSTANTANEOUS PEAK FLOW			2020	Mar 11	2850	Mar 3 1983
INSTANTANEOUS PEAK STAGE			8.03	Mar 11	8.89	Mar 3 1983
ANNUAL RUNOFF (AC-FT)	360		37130		17340	
10 PERCENT EXCEEDS	.62		7.7		34	
50 PERCENT EXCEEDS	.28		1.1		1.6	
90 PERCENT EXCEEDS	.19		.24		.24	

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA

LOCATION.--Lat 37°36'55", long 121°52'50", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi upstream from small left bank tributary, 0.8 mi downstream from highway bridge, and 3.2 mi south of Pleasanton.

DRAINAGE AREA.--405 mi^2.

PERIOD OF RECORD.--January 1912 to September 1930, October 1969 to September 1983, October 1987 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 248.40 ft above sea level. January 1912 to September 1917, at site 3.0 mi upstream at different datum. October 1917 to September 1930, at site 0.8 mi downstream at different datum. October 1969 to September 1983, at datum 3.00 ft higher.

REMARKS.--Records fair. Flow partly regulated by Del Valle Reservoir 15 mi upstream, beginning in September 1968, capacity, 77,100 acre-ft. Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). See schematic diagram of Alameda Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft^3/s, Jan. 5, 1982, gage height, 22.61 ft, present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,340 ft^3/s, Jan. 9, gage height, 18.21 ft; minimum daily, 4.9 ft^3/s, Nov. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	24	34	153	82	108	152	23	25	12	15
2	13	6.7	24	27	109	206	96	69	23	26	11	15
3	13	4.9	29	158	78	325	87	42	24	25	10	17
4	19	7.3	29	120	63	84	79	36	24	25	11	17
5	104	105	27	152	58	73	77	32	23	24	12	17
6	45	502	21	94	50	43	73	33	21	20	14	16
7	18	127	18	234	55	36	108	36	21	20	15	17
8	15	49	22	99	55	42	94	35	22	24	12	11
9	22	203	21	1110	46	906	70	31	23	29	11	11
10	23	181	21	2700	44	2390	62	31	24	29	11	11
11	17	46	24	595	42	1970	56	27	24	29	12	12
12	13	25	71	236	44	2340	54	30	25	25	12	13
13	14	25	67	116	42	2050	66	151	21	24	15	8.9
14	16	22	113	320	42	1740	52	122	24	24	15	7.4
15	18	47	102	515	35	873	86	85	39	e24	13	12
16	16	46	41	281	33	236	85	40	267	e24	10	15
17	22	127	29	106	33	176	52	32	54	e24	9.2	16
18	19	42	25	67	33	171	55	25	32	e24	9.8	16
19	16	25	25	62	33	141	50	22	27	23	8.6	15
20	15	25	16	86	33	856	55	22	23	22	9.9	14
21	14	23	14	80	33	806	47	24	23	22	11	14
22	15	18	18	145	31	2860	41	25	22	21	9.2	14
23	20	18	22	263	30	2920	36	27	22	22	12	14
24	22	22	53	921	30	1370	37	26	22	20	13	16
25	16	203	33	1440	31	1720	36	24	22	20	13	17
26	10	125	26	694	33	1630	34	22	21	17	14	17
27	14	47	24	745	32	1590	36	20	20	16	13	17
28	15	45	39	749	53	1500	35	24	21	15	15	17
29	16	29	30	1090	---	311	46	25	22	19	15	16
30	17	26	28	272	---	153	53	24	23	20	15	14
31	18	---	36	203	---	124	---	23	---	18	15	---
TOTAL	629	2182.9	1072	13714	1354	29724	1866	1317	982	700	378.7	432.3
MEAN	20.3	72.8	34.6	442	48.4	959	62.2	42.5	32.7	22.6	12.2	14.4
MAX	104	502	113	2700	153	2920	108	152	267	29	15	17
MIN	10	4.9	14	27	30	36	34	20	20	15	8.6	7.4
AC-FT	1250	4330	2130	27200	2690	58960	3700	2610	1950	1390	751	857

e Estimated.

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1930, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.43	1.96	15.9	174	234	59.5	18.5	8.67	3.52	2.06	1.36	1.19
MAX	9.90	13.4	105	1349	728	207	59.8	74.0	13.9	13.1	8.76	6.98
(WY)	1917	1927	1914	1914	1915	1919	1926	1915	1916	1916	1916	1916
MIN	.000	.000	.000	.000	.84	.53	.000	.000	.000	.000	.000	.000
(WY)	1914	1914	1919	1925	1924	1924	1929	1924	1918	1913	1913	1913

SUMMARY STATISTICS	WATER YEARS 1912 - 1930		
ANNUAL MEAN	42.5		
HIGHEST ANNUAL MEAN	180		1914
LOWEST ANNUAL MEAN	.69		1913
HIGHEST DAILY MEAN	9810	Jan 25	1914
LOWEST DAILY MEAN	.00	Jun 30	1913
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 30	1913
ANNUAL RUNOFF (AC-FT)	30800		
10 PERCENT EXCEEDS	33		
50 PERCENT EXCEEDS	.90		
90 PERCENT EXCEEDS	.00		

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	20.2	33.2	49.9	166	177	196	65.8	23.1	17.3	18.6	17.1	15.0
MAX	42.3	92.3	156	867	925	1510	517	116	43.0	40.6	43.5	41.1
(WY)	1971	1983	1983	1983	1983	1983	1982	1983	1983	1975	1981	1981
MIN	3.34	2.59	6.46	6.07	12.7	9.39	6.49	4.05	2.88	1.80	2.31	2.28
(WY)	1991	1993	1990	1991	1977	1988	1990	1992	1991	1992	1991	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	11508.1		54351.9			
ANNUAL MEAN	31.5		149		66.1	
HIGHEST ANNUAL MEAN					339	1983
LOWEST ANNUAL MEAN					11.6	1977
HIGHEST DAILY MEAN	502	Nov 6	2920	Mar 23	5270	Jan 5 1982
LOWEST DAILY MEAN	4.9	Nov 3	4.9	Nov 3	.33	Jul 11 1990
ANNUAL SEVEN-DAY MINIMUM	9.9	Jun 12	9.7	Aug 16	1.1	Jul 6 1992
INSTANTANEOUS PEAK FLOW			6340	Jan 9	11400	Jan 5 1982
INSTANTANEOUS PEAK STAGE			18.21	Jan 9	22.61	Jan 5 1982
ANNUAL RUNOFF (AC-FT)	22830		107800		47880	
10 PERCENT EXCEEDS	53		235		76	
50 PERCENT EXCEEDS	18		26		17	
90 PERCENT EXCEEDS	11		13		4.1	

11179000 ALAMEDA CREEK NEAR NILES, CA

LOCATION.--Lat 37°35'14", long 121°57'35", in NW 1/4 sec.15, T.4 S., R.1 W., Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi downstream from railroad bridge, 1.2 mi northeast of Niles, and 8.3 mi downstream from James H. Turner Dam on San Antonio Creek.

DRAINAGE AREA.--633 mi^2.

PERIOD OF RECORD.--January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891-1900 and as "at Sunolglen" 1901-21.

REVISED RECORDS.--WSP 1315-B: 1921. WSP 1515: 1951-52, 1956. WSP 1565: 1945. WDR CA-86-2: 1984(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.65 ft above sea level. Prior to 1901, nonrecording gage at site 1 mi upstream at different datum. From 1901 to Sept. 30, 1914, nonrecording gage; Oct. 1, 1914, to Sept. 30, 1916, water-stage recorder at site 4.5 mi upstream at different datum; Oct. 1, 1916, to Dec. 17, 1923, water-stage recorder at site 800 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1916 by Calaveras Reservoir, although dam not completed until 1925, usable capacity, 96,800 acre-ft, most of which is diverted for San Francisco water supply; since February 1965 by San Antonio Reservoir, capacity, 51,000 acre-ft; and since September 1968 by Del Valle Reservoir, 23 mi upstream, capacity, 77,100 acre-ft. Natural flow of stream affected by water imported from Delta-Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres upstream from station. See schematic diagram of Alameda Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft^3/s, Dec. 23, 1955, gage height, 14.9 ft; minimum (water years 1892-1962), no flow at times; minimum daily (water years 1963-94), 0.63 ft^3/s, Oct. 7-10, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,000 ft^3/s, Mar. 22, gage height, 13.55 ft; minimum daily, 6.1 ft^3/s, Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	16	29	39	498	101	278	247	61	35	25	14
2	26	12	28	34	261	182	242	201	56	38	19	14
3	25	7.8	31	150	197	412	209	159	52	37	16	16
4	26	6.9	33	124	157	138	182	141	52	36	15	18
5	88	28	31	176	131	113	164	134	52	32	16	20
6	60	540	26	115	116	76	153	128	49	27	20	17
7	34	145	22	284	113	61	185	125	46	27	20	14
8	19	49	25	130	117	69	178	116	46	28	17	15
9	21	117	25	1180	98	1090	146	110	42	34	16	8.8
10	20	284	24	4980	81	3720	132	101	38	33	14	11
11	16	59	28	1120	79	4640	129	81	34	31	14	12
12	12	31	57	369	77	4810	126	72	39	28	15	13
13	9.7	26	81	226	79	3410	142	245	49	26	16	10
14	9.9	26	98	468	85	2790	126	285	49	24	19	6.1
15	14	30	134	926	74	1670	135	274	54	26	16	7.9
16	15	66	55	489	63	557	183	198	264	27	13	13
17	16	134	39	279	64	367	126	168	93	27	12	17
18	18	64	34	184	58	502	128	149	59	30	13	17
19	15	34	35	218	57	404	127	133	52	30	12	15
20	13	33	27	262	56	1200	128	124	46	29	12	13
21	12	33	22	486	54	2160	115	119	43	30	16	12
22	13	30	23	525	53	5160	96	111	42	28	15	12
23	15	26	26	715	52	9430	93	107	39	36	14	13
24	18	27	50	1580	50	4650	103	102	38	48	15	16
25	18	188	39	2110	45	3840	109	89	31	30	15	17
26	15	163	30	1280	46	3280	101	79	37	28	16	17
27	13	57	28	1790	48	2850	104	74	36	24	16	17
28	15	50	38	1900	64	2350	108	73	36	26	15	15
29	16	33	36	2110	---	806	110	71	36	29	16	14
30	17	31	32	997	---	477	125	68	34	35	16	13
31	18	---	34	758	---	367	---	64	---	33	15	---
TOTAL	652.6	2346.7	1220	26004	2873	61682	4283	4148	1605	952	489	417.8
MEAN	21.1	78.2	39.4	839	103	1990	143	134	53.5	30.7	15.8	13.9
MAX	88	540	134	4980	498	9430	278	285	264	48	25	20
MIN	9.7	6.9	22	34	45	61	93	64	31	24	12	6.1
AC-FT	1290	4650	2420	51580	5700	122300	8500	8230	3180	1890	970	829

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1961, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.61	21.0	101	185	322	213	156	18.9	8.19	5.46	3.26	3.14
MAX	36.5	581	1469	2578	2431	1439	2323	95.5	46.1	50.1	47.5	48.9
(WY)	1936	1951	1956	1952	1938	1938	1958	1941	1938	1935	1935	1935
MIN	.000	.000	.000	.22	.71	.17	1.08	.11	.000	.000	.000	.000
(WY)	1925	1926	1931	1949	1948	1931	1929	1934	1931	1929	1925	1925

SUMMARY STATISTICS	WATER YEARS 1925 - 1961	
ANNUAL MEAN	85.4	
HIGHEST ANNUAL MEAN	401	1952
LOWEST ANNUAL MEAN	.90	1961
HIGHEST DAILY MEAN	23900	Dec 23 1955
LOWEST DAILY MEAN	.00	Oct 1 1924
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1 1924
INSTANTANEOUS PEAK FLOW	29000	Dec 23 1955
INSTANTANEOUS PEAK STAGE	14.9	Dec 23 1955
ANNUAL RUNOFF (AC-FT)	61830	
10 PERCENT EXCEEDS	91	
50 PERCENT EXCEEDS	2.7	
90 PERCENT EXCEEDS	.00	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	28.2	57.0	98.1	240	348	372	138	57.8	46.1	41.5	39.8	32.0
MAX	78.6	247	434	1335	1928	2725	1163	318	154	62.9	65.9	62.1
(WY)	1992	1984	1984	1983	1983	1983	1982	1983	1973	1981	1972	1981
MIN	9.91	23.1	20.1	28.4	28.9	32.5	18.3	18.6	16.3	20.6	15.8	2.51
(WY)	1979	1970	1979	1985	1977	1977	1991	1971	1978	1974	1995	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	15783.1		106673.1			
ANNUAL MEAN	43.2		292		124	
HIGHEST ANNUAL MEAN					621	1983
LOWEST ANNUAL MEAN					31.5	1977
HIGHEST DAILY MEAN	651	Feb 20	9430	Mar 23	9430	Mar 23 1995
LOWEST DAILY MEAN	6.9	Nov 4	6.1	Sep 14	.63	Oct 7 1984
ANNUAL SEVEN-DAY MINIMUM	9.6	Aug 30	9.8	Sep 9	.66	Oct 4 1984
INSTANTANEOUS PEAK FLOW			15000	Mar 22	16400	Feb 19 1986
INSTANTANEOUS PEAK STAGE			13.55	Mar 22	14.77	Feb 19 1986
ANNUAL RUNOFF (AC-FT)	31310		211600		89700	
10 PERCENT EXCEEDS	83		487		158	
50 PERCENT EXCEEDS	28		46		41	
90 PERCENT EXCEEDS	15		15		15	

11180500 DRY CREEK AT UNION CITY, CA

LOCATION.--Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, Hydrologic Unit 18050004, on right bank 900 ft downstream from bridge on State Highway 238 in Decoto District in Union City and 1.7 mi upstream from mouth.

DRAINAGE AREA.--9.39 mi^2.

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.--WSP 2129: 1962(M), 1963(P), 1965(P). WDR CA-76-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 85.12 ft above sea level, from topographic map. Prior to Apr. 1, 1959, at site 1.4 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. See schematic diagram of Alameda Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,680 ft^3/s, Jan. 9, 1995, gage height, 5.32 ft, from rating curve extended above 600 ft^3/s on basis of slope-area measurement of peak flow; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	unknown	*1,680	*5.32	Mar. 10	1515	386	3.55
Jan. 27	1700	136	2.80	Mar. 22	2200	148	2.85

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.17	e.40	11	2.9	7.3	2.5	.66	.12	.00	.00
2	.00	.00	e.16	e1.2	9.1	3.6	6.9	2.5	.65	.11	.00	.00
3	.00	.00	e.24	e2.4	8.6	13	6.9	2.4	.70	.11	.00	.00
4	.05	.00	e.21	e3.3	7.9	9.4	6.7	2.3	.67	.11	.00	.00
5	.00	.04	e.18	e4.0	7.1	9.0	6.6	2.0	.64	.08	.00	.00
6	.00	.02	e.17	e6.5	6.5	9.0	6.4	1.9	.61	.07	.00	.00
7	.00	.01	e.18	e3.5	6.1	9.0	6.3	1.8	.57	.06	.00	.00
8	.00	.00	e.19	e9.0	5.7	9.0	6.2	1.7	.54	.03	.00	.00
9	.00	.33	e.19	e140	5.3	41	5.8	1.6	.51	.00	.00	.00
10	.00	.00	e.20	e80	4.9	120	5.7	1.7	.49	.00	.00	.00
11	.00	.00	e.22	e45	4.6	57	5.4	1.5	.52	.00	.00	.00
12	.00	.00	e.24	e22	4.3	25	5.4	1.6	.49	.00	.00	.00
13	.00	.00	e.53	e35	4.1	18	5.2	4.4	.52	.00	.00	.00
14	.00	.00	e.92	e48	3.8	15	5.0	3.3	.64	.00	.00	.00
15	.00	.01	e.55	e30	3.6	14	4.7	2.8	.74	.02	.00	.00
16	.00	.00	e.43	e16	3.4	10	4.6	2.1	1.1	.00	.00	.00
17	.00	.21	e.29	e14	3.3	9.5	4.5	1.7	.52	.00	.00	.00
18	.00	.00	e.33	e12	3.2	9.6	4.2	1.5	.41	.00	.00	.00
19	.00	.00	e.29	9.4	3.2	9.5	4.1	1.4	.33	.00	.00	.00
20	.00	.00	e.26	11	3.1	35	3.9	1.3	.27	.00	.00	.00
21	.00	.00	e.23	10	3.1	42	3.7	1.3	.22	.00	.00	.00
22	.00	.00	e.26	11	3.0	71	3.5	1.4	.20	.00	.00	.00
23	.00	.00	e.57	15	3.0	80	3.4	1.3	.19	.00	.00	.00
24	.00	.00	e.44	18	3.0	33	3.3	1.3	.17	.00	.00	.00
25	.00	.07	e.38	12	3.0	22	3.1	1.0	.15	.00	.00	.00
26	.00	e1.0	e.36	11	3.0	16	3.0	.93	.13	.00	.00	.00
27	.00	e.25	e.35	71	3.0	12	2.9	.97	.13	.00	.00	.00
28	.00	e.22	e.47	38	3.0	10	2.9	.88	.13	.00	.00	.00
29	.00	e.19	e.38	22	---	8.2	2.6	.65	.13	.00	.00	.00
30	.00	e.18	e.42	17	---	7.6	2.6	.62	.12	.00	.00	.00
31	.00	---	e.41	14	---	7.3	---	.63	---	.00	.00	---
TOTAL	0.05	2.53	10.22	731.70	132.9	737.6	142.8	53.08	13.15	0.71	0.00	0.00
MEAN	.002	.084	.33	23.6	4.75	23.8	4.76	1.71	.44	.023	.000	.000
MAX	.05	1.0	.92	140	11	120	7.3	4.4	1.1	.12	.00	.00
MIN	.00	.00	.16	.40	3.0	2.9	2.6	.62	.12	.00	.00	.00
AC-FT	.1	5.0	20	1450	264	1460	283	105	26	1.4	.00	.00

e Estimated.

11180500 DRY CREEK AT UNION CITY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.17	.62	2.26	7.20	8.11	6.40	2.84	.56	.17	.029	.013	.004
MAX	6.31	11.3	21.0	31.7	36.8	58.2	20.1	6.45	2.87	.82	.51	.10
(WY)	1963	1984	1974	1973	1983	1983	1982	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1917	1917	1918	1918	1918	1972	1917	1917	1917	1917	1917	1917

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1917 - 1995	
ANNUAL TOTAL	130.39		1824.74			
ANNUAL MEAN	.36		5.00		2.34	
HIGHEST ANNUAL MEAN					13.0	1983
LOWEST ANNUAL MEAN					.002	1977
HIGHEST DAILY MEAN	30	Feb 20	140	Jan 9	335	Jan 21 1970
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1916
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 5	.00	Oct 1 1916
INSTANTANEOUS PEAK FLOW			1680	Jan 9	1680	Jan 9 1995
INSTANTANEOUS PEAK STAGE			5.32	Jan 9	5.32	Jan 9 1995
ANNUAL RUNOFF (AC-FT)	259		3620		1700	
10 PERCENT EXCEEDS	.36		11		3.9	
50 PERCENT EXCEEDS	.00		.35		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

11180700 PATTERSON CREEK AT UNION CITY, CA

LOCATION.--Lat 37°55'09", long 122°02'50", in Potrero de los Cerritos Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.1 mi downstream from effluence from Alameda Creek, 0.2 mi upstream from bridge on Interstate 880 (Nimitz Freeway), and 2.0 mi southwest of Decoto District in Union City.

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4.13 ft above sea level. Prior to Oct. 26, 1966, at site 0.2 mi downstream at same datum.

REMARKS.--Records poor. This stream is a distributary of Alameda Creek. Diversion by Alameda County Water District to percolation ponds between station 11179000 and this station; additional percolation to ground water by placing check dams in channel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,100 ft^3/s, Feb. 19, 1986, gage height, 18.44 ft; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,600 ft^3/s, Jan. 9, gage height, 17.57 ft; no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.40	.13	1.9	e2.6	319	75	164	e130	e58	e36	54	.00
2	e.40	.13	1.0	e6.5	174	310	150	e300	e55	e37	3.4	.00
3	e.45	.10	2.5	e10	165	479	107	e280	e52	e38	1.2	.00
4	e1.0	.09	4.2	e15	135	187	115	e210	e50	e37	.05	.00
5	e11	1.8	4.8	e7.0	110	132	115	e180	e48	e35	.00	.00
6	e5.0	1750	1.8	e10	95	83	195	137	e45	e32	.00	.00
7	e3.7	807	1.7	323	90	57	151	130	e42	e27	.00	.00
8	2.3	48	1.1	304	98	60	106	128	e40	e27	.00	.00
9	.84	40	1.4	2340	74	996	75	117	e38	e30	.00	.00
10	.67	51	e2.0	7010	58	3850	46	101	e37	e34	.00	.00
11	.59	20	e2.6	1410	54	4160	59	84	e36	e32	.00	.00
12	.40	14	e4.6	496	54	4100	186	79	e40	e29	.00	.00
13	.07	7.2	e8.0	300	54	2550	85	112	e43	e28	.00	.00
14	.04	9.5	e11	466	59	2000	84	280	e48	e7.0	.00	.00
15	.04	12	e14	975	54	1150	97	346	e60	22	.00	.00
16	.04	14	e8.0	421	37	468	164	239	e270	13	.00	.00
17	.04	e33	e4.5	112	6.3	316	111	198	e200	10	.00	.00
18	.03	e23	e2.5	9.9	11	410	106	179	e140	11	.00	.00
19	.03	e16	e1.7	9.4	20	378	81	139	e70	20	.00	.00
20	.02	e14	e1.5	318	21	1020	61	e140	e61	31	.00	.00
21	.03	e12	e1.3	544	22	1540	78	e130	e56	19	.00	.00
22	.04	e11	e.90	551	17	4960	53	e125	e50	37	.00	.00
23	.04	e11	e2.0	690	2.6	8300	48	e120	e46	11	.00	.00
24	e.10	15	e3.7	1350	2.8	3040	57	e110	e43	14	.00	.00
25	e.10	30	e3.0	1810	12	2350	e73	e95	e38	13	.00	.00
26	e.10	29	e2.5	1100	14	1840	e70	e88	e36	16	.00	.00
27	e.10	11	e2.1	1550	14	1540	e80	e82	e35	7.9	.00	.00
28	.15	6.1	e2.6	1580	17	1230	e85	e73	e36	4.4	.00	.00
29	.13	4.9	e2.4	1820	---	505	e90	e68	e37	132	.00	.00
30	.09	4.2	e2.6	836	---	310	e95	e65	e36	11	.00	.00
31	.09	---	e3.0	660	---	181	---	e60	---	40	.00	---
TOTAL	28.03	2995.15	106.90	27036.4	1789.7	48578	2987	4525	1846	841.3	58.65	0.00
MEAN	.90	99.8	3.45	872	63.9	1567	99.6	146	61.5	27.1	1.89	.000
MAX	11	1750	14	7010	319	8300	195	346	270	132	54	.00
MIN	.02	.09	.90	2.6	2.6	57	46	60	35	4.4	.00	.00
AC-FT	56	5940	212	53630	3550	96350	5920	8980	3660	1670	116	.00

e Estimated.

11180700 PATTERSON CREEK AT UNION CITY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.73	34.9	71.4	207	289	273	113	24.6	8.47	1.72	.48	1.23
MAX	53.0	404	557	1711	2150	3007	1091	312	120	27.1	8.73	19.1
(WY)	1963	1984	1984	1983	1983	1983	1982	1983	1973	1995	1970	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1959	1959	1959	1959	1961	1960	1959	1959	1959	1959	1959	1959

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1959 - 1995	
ANNUAL TOTAL	8390.72		90792.13			
ANNUAL MEAN	23.0		249		84.8	
HIGHEST ANNUAL MEAN					703	1983
LOWEST ANNUAL MEAN					.000	1961
HIGHEST DAILY MEAN	1750	Nov 6	8300	Mar 23	11700	Feb 19 1986
LOWEST DAILY MEAN	.01	Aug 30	.00	Aug 5	.00	Oct 1 1958
ANNUAL SEVEN-DAY MINIMUM	.02	Aug 30	.00	Aug 5	.00	Oct 1 1958
INSTANTANEOUS PEAK FLOW			18600	Jan 9	22100	Feb 19 1986
INSTANTANEOUS PEAK STAGE			17.57	Jan 9	18.44	Feb 19 1986
ANNUAL RUNOFF (AC-FT)	16640		180100		61470	
10 PERCENT EXCEEDS	12		472		120	
50 PERCENT EXCEEDS	2.2		29		.00	
90 PERCENT EXCEEDS	.07		.00		.00	

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°42'55", long 122°03'12", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 0.9 mi upstream from Cull Creek Dam and 1.1 mi northeast of Castro Valley Post Office.

DRAINAGE AREA.--5.79 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

REVISED RECORDS.--WDR CA-80-2: 1979(P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 450 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No storage or diversions upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,690 ft^3/s, Jan. 5, 1982, gage height, 8.71 ft; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1945	*477	*4.50	Mar. 22	0915	455	4.41
Mar. 10	1400	349	3.97				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.01	.11	9.7	2.6	12	12	e.92	.41	.06	.01
2	.00	.00	.01	.11	7.8	7.5	12	4.4	e.92	.41	.06	.01
3	.00	.00	.04	1.7	7.0	6.5	11	2.7	e.92	.42	.06	.00
4	.00	.00	.16	2.6	6.4	3.5	10	2.1	e.89	.42	.08	.00
5	.00	.11	.06	4.4	6.1	3.1	9.4	1.9	e.82	.36	.09	.00
6	.00	1.2	.04	2.7	5.7	2.8	8.8	1.8	e.80	.34	.09	.00
7	.00	.00	.03	5.3	5.4	2.6	9.3	e1.6	e.78	.32	.08	.00
8	.00	.00	.03	6.9	5.1	3.8	8.8	e1.5	e.78	.29	.07	.00
9	.00	.16	.03	64	4.7	43	8.0	e1.4	e.78	.27	.04	.00
10	.00	.34	.03	92	4.5	115	7.4	e1.4	e.76	.30	.03	.00
11	.00	.00	.03	22	4.3	31	6.8	e1.3	e.74	.30	.03	.00
12	.00	.00	.34	19	4.2	15	6.5	e5.6	e.72	.30	.03	.00
13	.00	.00	.18	14	4.0	13	7.1	e3.5	.70	.28	.03	.00
14	.00	.00	2.0	36	3.8	15	5.8	e2.5	.76	.24	.02	.00
15	.00	.00	1.1	24	3.6	14	7.1	e2.0	1.2	.19	.02	.00
16	.00	.00	.34	20	3.5	11	6.7	e1.7	2.8	.16	.02	.00
17	.00	.41	.24	14	3.3	10	6.0	e1.6	.87	.19	.01	.00
18	.00	.01	.18	8.7	3.2	11	6.9	e1.6	.83	.23	.01	.00
19	.00	.00	.14	7.9	3.1	9.6	5.7	e1.5	.71	.18	.01	.00
20	.00	.00	.13	9.2	3.1	17	6.5	e1.3	.68	.21	.01	.00
21	.00	.00	.12	7.5	2.9	16	5.3	e1.3	.64	.21	.01	.00
22	.00	.00	.10	8.1	2.8	172	5.0	e1.4	.59	.19	.01	.00
23	.00	.00	.10	13	2.7	102	4.8	e1.4	.55	.18	.01	.00
24	.00	.00	.39	8.3	2.7	47	4.7	e1.3	.50	.20	.01	.00
25	.00	3.0	.13	8.6	2.6	31	4.4	e1.2	.44	.20	.01	.00
26	.00	.66	.10	10	2.6	23	4.4	e1.2	.39	.20	.01	.00
27	.00	.07	.11	72	2.5	19	4.6	e1.2	.41	.14	.01	.00
28	.00	.05	.12	24	2.7	17	4.4	e1.0	.42	.11	.01	.00
29	.00	.03	.10	14	---	15	5.9	e.90	.43	.09	.01	.00
30	.00	.02	.09	16	---	14	5.1	e.86	.42	.10	.01	.00
31	.00	---	.09	12	---	12	---	e.88	---	.08	.00	---
TOTAL	0.00	6.06	6.57	548.12	120.0	805.0	210.4	66.04	23.17	7.52	0.95	0.02
MEAN	.000	.20	.21	17.7	4.29	26.0	7.01	2.13	.77	.24	.031	.001
MAX	.00	3.0	2.0	92	9.7	172	12	12	2.8	.42	.09	.01
MIN	.00	.00	.01	.11	2.5	2.6	4.4	.86	.39	.08	.00	.00
AC-FT	.00	12	13	1090	238	1600	417	131	46	15	1.9	.04

e Estimated.

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.051	.91	2.40	7.89	10.8	9.31	2.85	.77	.24	.063	.012	.005
MAX	.45	6.00	14.0	35.5	39.7	54.3	16.8	3.56	.95	.25	.12	.079
(WY)	1983	1984	1984	1982	1982	1983	1982	1983	1983	1982	1983	1983
MIN	.000	.000	.001	.000	.045	.13	.055	.016	.007	.000	.000	.000
(WY)	1979	1987	1980	1991	1991	1988	1990	1988	1988	1981	1979	1979

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1979 - 1995	
ANNUAL TOTAL	182.40		1793.85			
ANNUAL MEAN	.50		4.91		2.90	
HIGHEST ANNUAL MEAN					10.3	1983
LOWEST ANNUAL MEAN					.054	1990
HIGHEST DAILY MEAN	19	Feb 18	172	Mar 22	445	Feb 15 1982
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1978
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1978
INSTANTANEOUS PEAK FLOW			477	Jan 9	1690	Jan 5 1982
INSTANTANEOUS PEAK STAGE			4.50	Jan 9	8.71	Jan 5 1982
ANNUAL RUNOFF (AC-FT)	362		3560		2100	
10 PERCENT EXCEEDS	.89		12		5.0	
50 PERCENT EXCEEDS	.04		.42		.09	
90 PERCENT EXCEEDS	.00		.00		.00	

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year (storm season only).
WATER TEMPERATURE: Water years 1979 to current year.
SEDIMENT DATA: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1978 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1978 to current year.

REMARKS.--Zero bedload discharge observed at flows less than 0.84 ft^3/s. Sediment samples were collected on most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 24,400 mg/L, Jan. 13, 1993; minimum daily mean, no flow many days during most years.
SEDIMENT LOAD: Maximum daily, 26,400 tons, Feb. 17, 1986; minimum daily, 0 ton many days during most years.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION (storm season only): Maximum daily mean, 7,400 mg/L, Mar. 22; minimum daily mean, no flow on many days.
SEDIMENT LOAD: (storm season only): Maximum daily, 5,000 tons, Mar. 22; minimum daily, 0 ton on many days.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
NOV								
09...	1415	0.12	10.0	290	0.09	--	--	--
25...	1940	2.1	7.5	372	2.1	--	--	--
DEC								
12...	1655	0.36	7.0	27	0.03	--	--	--
14...	1750	7.9	7.5	1260	27	52	60	71
JAN								
03...	0235	0.42	7.0	36	0.04	--	--	--
04...	2000	4.9	8.0	283	3.7	--	--	--
07...	1020	5.4	9.0	328	4.8	--	--	--
09...	2010	383	11.5	22400	23200	26	32	36
19...	0920	7.6	8.0	115	2.4	--	--	--
19...	1815	8.2	9.0	116	2.6	--	--	--
27...	1655	98	12.0	8680	2300	16	20	26
FEB								
09...	2110	4.5	10.5	64	0.78	--	--	--
20...	2350	2.8	10.5	34	0.26	--	--	--
MAR								
02...	1050	12	11.5	1700	55	56	64	73
09...	0915	12	12.5	778	25	--	--	--
09...	1215	165	12.5	15100	6730	24	28	35
10...	1445	293	12.5	21300	16800	25	31	34
22...	1645	238	9.5	10900	7000	20	25	26
23...	1345	65	10.0	2330	409	25	32	36
APR								
15...	2230	9.4	9.0	266	6.8	--	--	--
30...	1730	4.8	15.0	25	0.32	--	--	--

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV								
09...	--	--	98	98	99	99	100	--
25...	--	--	99	--	--	--	--	--
DEC								
12...	--	--	83	--	--	--	--	--
14...	81	91	96	99	100	--	--	--
JAN								
03...	--	--	72	--	--	--	--	--
04...	--	--	99	--	--	--	--	--
07...	--	--	98	100	--	--	--	--
09...	47	58	70	82	95	99	100	--
19...	--	--	96	--	--	--	--	--
19...	--	--	91	--	--	--	--	--
27...	33	42	53	68	87	97	99	100
FEB								
09...	--	--	69	--	--	--	--	--
20...	--	--	80	--	--	--	--	--
MAR								
02...	87	93	96	98	99	100	--	--
09...	--	--	83	89	96	99	100	--
09...	45	56	68	80	93	98	100	--
10...	46	57	68	80	94	99	100	--
22...	37	47	56	73	90	98	100	--
23...	49	60	70	82	93	98	99	99
APR								
15...	--	--	98	--	--	--	--	--
30...	--	--	34	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	NUMBER OF SAMPLING POINTS (COUNT)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
MAR							
23...	1430	1	65	10.0	--	1	7
23...	1440	1	65	10.0	1	2	7
23...	1445	1	64	10.0	--	1	4
23...	1450	1	66	10.0	12	23	39

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAR							
23...	20	31	41	54	71	96	100
23...	12	17	27	42	62	79	100
23...	10	22	33	45	57	67	100
23...	53	71	83	86	92	100	--

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)
JAN										
07...	1045	1000	1120	0.250	0	1035	1055	60	0.5	2
07...	1110	1000	1120	0.250	0	1100	1120	60	0.5	2
19...	0945	1000	1120	0.250	0	0940	0955	30	0.6	2
19...	1010	1000	1120	0.250	0	1000	1015	30	0.6	2
MAR										
23...	1400	1000	1120	0.250	0	1355	1405	10	0.7	2
23...	1410	1000	1120	0.250	0	1405	1420	10	0.7	2

DATE	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COMPOSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN									
07...	15	15	6.70	4.9	9.0	0.02	0.13	1	2
07...	15	15	6.70	5.0	9.0	0.02	0.13	--	1
19...	19	19	2.00	8.6	8.0	0.39	5.6	--	--
19...	19	19	2.00	8.8	8.0	0.60	5.6	--	--
MAR									
23...	21	21	2.00	68	10.0	4.2	76	--	--
23...	21	21	2.00	69	10.0	6.1	76	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
JAN									
07...	9	49	75	86	95	100	--	--	--
07...	5	29	50	68	85	100	--	--	--
19...	1	9	20	41	82	98	100	--	--
19...	1	5	19	55	85	98	100	--	--
MAR									
23...	5	19	29	38	51	66	85	96	100
23...	4	11	15	19	30	44	73	100	--

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	7.5	---	13.0	12.5	---	---	---	---	---	---
2	---	---	---	---	13.0	11.5	---	---	---	---	---	---
3	---	---	9.5	8.5	---	---	---	12.0	---	---	---	---
4	---	---	---	8.5	11.0	11.0	---	---	---	---	---	---
5	---	---	6.5	8.5	---	---	15.0	---	---	---	---	---
6	---	---	---	8.5	---	---	---	---	---	---	---	---
7	---	---	5.5	9.0	11.5	10.5	13.0	---	---	---	---	---
8	---	---	---	11.0	---	11.5	---	---	---	---	---	---
9	---	10.5	4.5	11.5	10.5	12.5	9.0	---	---	---	---	---
10	---	7.5	---	11.5	---	12.5	13.5	---	---	---	---	---
11	---	---	7.0	11.5	---	12.0	---	---	---	---	---	---
12	---	---	7.0	11.5	11.0	12.0	---	---	17.0	---	---	---
13	---	---	6.5	12.5	---	11.5	12.5	---	---	---	---	---
14	---	---	7.5	11.0	---	13.0	---	---	---	---	---	---
15	---	7.0	7.5	10.5	---	11.0	9.0	---	---	---	---	---
16	---	---	---	9.5	9.0	---	10.5	---	---	---	---	---
17	---	8.0	---	8.5	---	13.0	---	---	---	---	---	---
18	---	6.0	---	---	---	13.0	---	---	---	---	---	---
19	---	5.5	7.0	9.0	---	12.5	11.5	---	---	---	---	---
20	---	---	---	---	10.5	11.5	---	---	---	---	---	---
21	---	---	6.0	9.5	---	10.5	---	---	---	---	---	---
22	---	---	---	10.5	---	9.5	---	---	---	---	---	---
23	---	---	---	11.5	12.0	10.0	13.0	---	---	---	---	---
24	---	---	6.0	10.5	---	---	---	---	---	---	---	---
25	---	7.5	---	11.0	12.0	---	13.5	---	---	---	---	---
26	---	5.5	6.5	10.5	---	10.5	---	---	---	15.0	---	---
27	---	7.0	---	12.0	---	---	---	---	---	---	---	---
28	---	---	---	13.0	11.5	10.0	13.5	---	---	---	---	---
29	---	6.0	---	13.0	---	---	---	---	---	---	---	---
30	---	---	---	13.5	---	---	15.0	---	---	---	---	---
31	---	---	6.0	13.5	---	11.0	---	---	---	---	---	---

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00	---	---	.00	---	---	.01	9	.00
2	.00	---	---	.00	---	---	.01	7	.00
3	.00	---	---	.00	---	---	.04	6	.00
4	.00	---	---	.00	---	---	.16	21	.01
5	.00	---	---	.11	441	.88	.06	30	.00
6	.00	---	---	1.2	538	6.2	.04	26	.00
7	.00	---	---	.00	0	.00	.03	21	.00
8	.00	---	---	.00	0	.00	.03	19	.00
9	.00	---	---	.16	143	.48	.03	18	.00
10	.00	---	---	.34	111	.29	.03	19	.00
11	.00	---	---	.00	0	.00	.03	20	.00
12	.00	---	---	.00	0	.00	.34	29	.03
13	.00	---	---	.00	0	.00	.18	26	.01
14	.00	---	---	.00	0	.00	2.0	287	4.1
15	.00	---	---	.00	1	.00	1.1	115	.57
16	.00	---	---	.00	0	.00	.34	20	.02
17	.00	---	---	.41	134	.45	.24	22	.01
18	.00	---	---	.01	12	.00	.18	25	.01
19	.00	---	---	.00	0	.00	.14	29	.01
20	.00	---	---	.00	0	.00	.13	29	.01
21	.00	---	---	.00	0	.00	.12	28	.01
22	.00	---	---	.00	0	.00	.10	27	.01
23	.00	---	---	.00	0	.00	.10	27	.01
24	.00	---	---	.00	0	.00	.39	31	.04
25	.00	---	---	3.0	544	8.3	.13	23	.01
26	.00	---	---	.66	64	.15	.10	21	.01
27	.00	---	---	.07	20	.00	.11	21	.01
28	.00	---	---	.05	22	.00	.12	22	.01
29	.00	---	---	.03	16	.00	.10	23	.01
30	.00	---	---	.02	12	.00	.09	25	.01
31	.00	---	---	---	---	---	.09	26	.01
TOTAL	0.00	---	---	6.06	---	16.75	6.57	---	4.92

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.11	24	.01	9.7	196	5.2	2.6	29	.21
2	.11	21	.01	7.8	95	2.0	7.5	908	26
3	1.7	84	.57	7.0	66	1.3	6.5	577	16
4	2.6	106	1.1	6.4	59	1.0	3.5	58	.56
5	4.4	189	2.6	6.1	55	.91	3.1	37	.31
6	2.7	124	.92	5.7	54	.83	2.8	40	.30
7	5.3	322	5.7	5.4	53	.78	2.6	44	.31
8	6.9	683	24	5.1	56	.77	3.8	235	13
9	64	3130	2460	4.7	62	.78	43	3380	902
10	92	6880	2180	4.5	61	.74	115	6140	3400
11	22	701	45	4.3	56	.65	31	1430	131
12	19	642	35	4.2	51	.58	15	543	23
13	14	358	18	4.0	51	.55	13	328	11
14	36	2840	334	3.8	53	.54	15	543	33
15	24	789	53	3.6	55	.54	14	339	15
16	20	580	35	3.5	57	.54	11	169	4.9
17	14	272	10	3.3	53	.48	10	153	4.2
18	8.7	193	4.6	3.2	47	.41	11	251	7.9
19	7.9	120	2.5	3.1	41	.35	9.6	134	3.5
20	9.2	137	3.6	3.1	36	.30	17	1130	73
21	7.5	124	2.5	2.9	32	.25	16	790	38
22	8.1	172	3.8	2.8	28	.22	172	7400	5000
23	13	491	23	2.7	25	.18	102	2830	958
24	8.3	287	7.7	2.7	21	.15	47	576	76
25	8.6	140	3.3	2.6	17	.12	31	285	24
26	10	372	31	2.6	14	.10	23	227	14
27	72	5340	1140	2.5	11	.07	19	178	9.1
28	24	1170	85	2.7	34	.27	17	140	6.3
29	14	450	17	---	---	---	15	105	4.3
30	16	672	33	---	---	---	14	75	2.7
31	12	395	13	---	---	---	12	53	1.8
TOTAL	548.12	---	6574.91	120.0	---	20.61	805.0	---	10799.39

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENTT DISCHARGE (TONS/DAY)
		APRIL	
1	12	45	1.4
2	12	44	1.4
3	11	43	1.2
4	10	42	1.1
5	9.4	41	1.0
6	8.8	41	.96
7	9.3	144	4.4
8	8.8	88	2.1
9	8.0	52	1.1
10	7.4	34	.68
11	6.8	32	.59
12	6.5	35	.62
13	7.1	45	.86
14	5.8	36	.57
15	7.1	108	2.8
16	6.7	108	2.0
17	6.0	36	.58
18	6.9	33	.62
19	5.7	27	.42
20	6.5	29	.53
21	5.3	26	.38
22	5.0	27	.36
23	4.8	27	.35
24	4.7	25	.31
25	4.4	21	.25
26	4.4	16	.19
27	4.6	13	.16
28	4.4	10	.11
29	5.9	26	.50
30	5.1	30	.42
31	---	---	---
TOTAL	210.4	---	27.96
PERIOD	1696.15		17444.54

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1994	0.00	0.00	0	0
NOVEMBER	6.06	16.75	1	18
DECEMBER	6.57	4.92	1	6
JANUARY 1995	548.12	6574.91	1220	7790
FEBRUARY	120.00	20.61	31	52
MARCH	805.00	10799.39	667	11500
APRIL	210.40	27.96	12	40
PERIOD	1696.15	17444.54	1932	19406

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 500 ft east of Hayward City Hall, 700 ft upstream from mouth, and 700 ft downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 mi^2.

PERIOD OF RECORD.--October 1971 to current year (seasonal records only, water years 1975-77).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 100 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft^3/s, Jan. 23, 1983, gage height, 8.51 ft, from rating curve extended above 61 ft^3/s on basis of slope-area measurement at gage height 3.92 ft and step-backwater computation to gage height 10.40 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1840	769	6.44	Mar. 22	0845	876	6.86
Mar. 10	1330	*961	*7.18				

Minimum daily, 0.16 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.34	.61	2.5	3.6	.80	1.8	10	.70	.66	.54	.38
2	.17	.27	1.6	7.8	2.9	34	1.7	1.4	.65	1.1	.53	.40
3	.17	.24	5.4	14	2.3	13	1.6	1.1	.61	.65	.45	.37
4	11	.22	7.8	12	2.0	2.3	1.5	.98	.58	.65	.57	.38
5	.48	87	.91	11	1.8	1.7	1.4	.91	.54	.63	.52	.38
6	.27	37	1.0	7.0	1.8	1.2	1.4	.92	.51	.60	.48	.34
7	.25	3.8	.63	18	2.7	1.1	5.0	.85	.50	.59	.48	.33
8	.21	.93	.61	16	1.8	18	1.4	.81	.52	.58	.48	.33
9	.20	49	.58	106	1.4	56	1.2	2.3	.51	.55	.51	.32
10	.22	3.3	.91	92	1.3	94	1.2	.83	.49	.54	.50	.33
11	.21	.95	1.8	11	1.3	32	1.1	.77	.48	.57	.48	.33
12	.20	.68	15	18	1.2	8.8	1.1	2.3	.48	.55	.46	.34
13	.24	.58	1.3	11	1.4	8.6	6.0	5.1	.48	.55	.43	.38
14	.24	.49	17	30	1.1	14	1.1	16	1.1	.54	.47	.35
15	.23	20	2.0	28	1.0	5.2	12	3.1	9.1	.59	.46	.37
16	.20	1.1	1.2	14	.94	3.6	1.6	1.3	18	.58	.43	.35
17	.20	27	.91	4.8	.92	2.8	1.2	1.0	1.0	.60	.40	.35
18	.22	1.3	1.0	3.5	.90	9.5	8.5	.95	1.3	1.2	.40	.37
19	.24	.84	.73	2.6	.86	2.6	1.2	.87	.84	.80	.40	.35
20	.24	1.1	.72	10	.85	43	4.0	.83	.81	.52	.40	.35
21	.23	.93	.65	7.6	.82	19	1.1	.79	.81	.54	.39	.41
22	.24	.67	.62	10	.82	158	1.0	.77	.78	.51	.37	.33
23	.26	.56	.61	12	.80	34	1.4	.77	.77	.52	.39	.31
24	.24	1.1	8.9	12	.77	9.4	.99	.74	.69	.53	.42	.30
25	.21	27	.79	3.5	.76	6.0	.90	.71	.69	.54	.40	.32
26	.22	5.2	.68	13	.73	4.5	.92	.69	.73	.53	.40	.29
27	.21	2.1	1.2	78	.72	3.8	1.2	.65	.69	.51	.40	.29
28	.21	1.0	3.1	10	4.2	3.1	.87	.65	.69	.54	.41	.28
29	.22	.73	.68	5.4	---	2.6	6.1	.68	.69	.51	.40	.25
30	.21	.63	.63	12	---	2.3	8.9	.67	.69	.51	.39	.24
31	.21	---	1.9	4.6	---	2.0	---	.65	---	.54	.39	---
TOTAL	17.81	276.06	81.47	587.3	41.69	596.90	79.38	60.09	46.43	18.83	13.75	10.12
MEAN	.57	9.20	2.63	18.9	1.49	19.3	2.65	1.94	1.55	.61	.44	.34
MAX	11	87	17	106	4.2	158	12	16	18	1.2	.57	.41
MIN	.16	.22	.58	2.5	.72	.80	.87	.65	.48	.51	.37	.24
AC-FT	35	548	162	1160	83	1180	157	119	92	37	27	20

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.69	4.79	4.92	8.52	9.11	7.83	2.74	1.01	.57	.38	.35	.53
MAX	4.97	19.0	12.8	24.6	25.5	34.6	12.3	3.23	1.55	1.15	1.50	1.62
(WY)	1976	1974	1984	1982	1986	1983	1974	1990	1995	1974	1983	1983
MIN	.15	.24	.24	.39	1.06	.60	.20	.30	.28	.17	.14	.12
(WY)	1978	1993	1990	1991	1977	1988	1977	1992	1980	1991	1980	1980

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1972 - 1995	
ANNUAL TOTAL	900.21		1829.83			
ANNUAL MEAN	2.47		5.01		3.74	
HIGHEST ANNUAL MEAN					8.76	1983
LOWEST ANNUAL MEAN					1.51	1972
HIGHEST DAILY MEAN	87	Nov 5	158	Mar 22	322	Jan 4 1982
LOWEST DAILY MEAN	.16	Oct 1	.16	Oct 1	.00	Oct 11 1977
ANNUAL SEVEN-DAY MINIMUM	.20	Sep 27	.21	Oct 25	.00	Oct 11 1977
INSTANTANEOUS PEAK FLOW			961	Mar 10	1350	Jan 23 1983
INSTANTANEOUS PEAK STAGE			7.18	Mar 10	8.51	Jan 23 1983
ANNUAL RUNOFF (AC-FT)	1790		3630		2710	
10 PERCENT EXCEEDS	3.2		12		6.3	
50 PERCENT EXCEEDS	.53		.80		.47	
90 PERCENT EXCEEDS	.21		.29		.18	

11181040 SAN LORENZO CREEK AT SAN LORENZO, CA

LOCATION.--Lat 37°41'03", long 122°08'20", in San Lorenzo (Soto) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 400 ft downstream from Washington Avenue Bridge in San Lorenzo and 1.6 mi upstream from mouth.

DRAINAGE AREA.--44.6 mi^2.

PERIOD OF RECORD.--October 1967 to September 1978, October 1987 to current year.
WATER TEMPERATURE: Water years 1989-93 (storm season only).
SEDIMENT DATA: Water years 1989-93 (storm season only).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 6.13 ft above sea level (levels by Alameda County Flood Control and Water Conservation District).

REMARKS.--Records good except for estimated discharge, which are fair. Flow partly regulated by Cull Creek Reservoir beginning in October 1962 (capacity, 310 acre-ft) and Don Castro Reservoir (capacity, 380 acre-ft) 7 mi upstream beginning in January 1965. A few very small diversions upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,300 ft^3/s, Jan. 13, 1993, gage height, 9.19 ft from rating curve extended above 1,200 ft^3/s; minimum daily, 0.01 ft^3/s, several days in June and July, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 850 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2055	*3,900	*8.15	Mar. 10	1625	1,970	6.45
Mar. 22	1115	1,920	6.39				

Minimum daily, 0.47 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	1.0	e3.3	e16	43	25	40	56	6.5	e3.0	e2.5	1.7
2	.56	.81	e6.5	e20	39	85	39	26	6.3	e5.1	e2.6	1.6
3	.69	.91	e16	42	36	66	38	21	6.9	e3.6	e4.1	1.5
4	16	1.2	e25	34	35	25	37	19	6.5	e2.8	e7.0	1.4
5	5.4	103	e17	39	35	23	33	16	6.8	e2.5	e2.7	1.4
6	1.2	80	e17	30	35	21	34	16	6.4	e2.5	2.1	1.3
7	.75	19	e12	56	32	21	46	17	6.4	e2.4	2.3	1.3
8	.69	4.8	e7.1	47	27	50	37	17	6.3	e2.4	1.9	1.3
9	.66	e67	e4.8	728	31	335	33	19	6.2	e2.4	1.9	1.3
10	.69	e26	e9.2	845	30	637	32	18	6.3	e2.5	1.8	1.4
11	.72	e8.5	e19	113	30	257	31	17	6.3	e2.4	1.8	1.4
12	.73	e4.6	e36	80	30	114	31	18	6.6	e2.4	1.8	1.3
13	.84	e3.2	e12	50	29	77	42	36	6.6	e2.4	1.7	1.4
14	1.2	e5.0	e32	148	29	75	31	58	8.9	e2.5	1.6	1.4
15	1.3	e31	e27	139	28	64	51	15	25	e2.7	1.6	1.5
16	1.1	e8.7	e16	105	27	47	36	5.4	80	e2.7	1.7	1.6
17	1.0	e30	e13	48	27	42	30	4.8	e4.5	e2.8	1.6	1.5
18	.93	e16	e12	40	27	54	43	4.8	e6.0	e5.5	1.6	1.5
19	.93	e6.4	e8.9	34	27	40	30	5.2	e4.0	e4.2	1.5	1.3
20	.95	e8.2	e8.0	45	27	251	36	5.4	e3.5	e3.2	1.5	1.2
21	.89	e6.3	e7.2	42	27	167	30	5.7	e3.2	e3.1	1.4	1.4
22	.84	e4.5	e6.7	46	26	1090	30	6.5	e3.1	e3.0	1.4	1.7
23	.84	e3.1	e6.2	63	26	541	31	7.3	e2.8	e3.0	1.5	1.8
24	.82	e10	e26	65	26	195	32	7.6	e2.5	e3.0	1.5	1.6
25	.83	e37	e17	39	26	115	32	8.4	e3.1	e2.9	1.4	2.1
26	.87	e26	e10	56	26	82	32	8.7	e2.9	e2.8	1.5	2.3
27	.92	e15	e15	487	25	66	33	8.7	e2.8	e3.0	1.4	2.3
28	.94	e7.8	e21	126	31	57	33	8.2	e2.7	e2.8	1.5	2.6
29	.96	e5.1	e17	65	---	50	42	7.2	e2.6	e2.7	1.5	2.2
30	.97	e3.9	e15	71	---	45	41	7.5	e2.5	e2.7	1.6	1.6
31	.96	---	e15	50	---	42	---	6.8	---	e2.6	1.7	---
TOTAL	46.65	544.02	457.9	3769	837	4759	1066	477.2	244.2	91.6	61.7	47.9
MEAN	1.50	18.1	14.8	122	29.9	154	35.5	15.4	8.14	2.95	1.99	1.60
MAX	16	103	36	845	43	1090	51	58	80	5.5	7.0	2.6
MIN	.47	.81	3.3	16	25	21	30	4.8	2.5	2.4	1.4	1.2
AC-FT	93	1080	908	7480	1660	9440	2110	947	484	182	122	95

e Estimated.

11181040 SAN LORENZO CREEK AT SAN LORENZO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.53	8.49	22.1	60.2	46.3	42.3	20.6	7.23	3.75	1.57	1.29	1.75
MAX	30.2	38.1	106	201	183	154	108	23.4	17.0	3.52	3.25	4.58
(WY)	1992	1974	1971	1993	1969	1995	1974	1993	1993	1993	1969	1975
MIN	.23	1.49	1.41	1.14	2.15	1.83	2.07	.85	.066	.64	.11	.35
(WY)	1978	1991	1990	1991	1977	1972	1976	1972	1977	1990	1977	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995	
ANNUAL TOTAL	3073.88		12402.17			
ANNUAL MEAN	8.42		34.0		18.3	
HIGHEST ANNUAL MEAN					40.9	1974
LOWEST ANNUAL MEAN					2.38	1977
HIGHEST DAILY MEAN	123	Feb 19	1090	Mar 22	2400	Jan 21 1970
LOWEST DAILY MEAN	.32	Aug 2	.47	Oct 1	.01	Jun 12 1977
ANNUAL SEVEN-DAY MINIMUM	.36	Jul 30	.73	Oct 7	.01	Jun 10 1977
INSTANTANEOUS PEAK FLOW			3900	Jan 9	5300	Jan 13 1993
INSTANTANEOUS PEAK STAGE			8.15	Jan 9	9.19	Jan 13 1993
ANNUAL RUNOFF (AC-FT)	6100		24600		13270	
10 PERCENT EXCEEDS	21		56		40	
50 PERCENT EXCEEDS	3.4		7.8		2.3	
90 PERCENT EXCEEDS	.46		1.3		.55	

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA

LOCATION.--Lat 37°57'53", long 122°25'42", in NW 1/4 sec.3, T.1 N., R.5 W., Contra Costa County, Hydrologic Unit 18050002, on north end of Richmond Terminal No. 4 Pier on west side of Point San Pablo.

GAGE-HEIGHT RECORDS

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1989 to current year (gage height only).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below sea level.

REMARKS.--Daily maximums and minimums sometimes differ from tidal-cycle (24.8 hours) maximums and minimums.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height recorded, 15.30 ft, Dec. 11, 1993; minimum gage height recorded, 4.93 ft, June 13, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 15.07 ft, Dec. 3; minimum gage height recorded, 4.93 ft, June 13.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.06	7.87	13.76	7.24	14.52	6.32	14.66	6.08	---	---	---	---
2	13.33	7.89	13.83	6.47	14.71	6.11	14.65	6.44	---	---	---	---
3	13.67	8.20	13.96	5.99	15.07	6.50	14.48	6.83	---	---	---	---
4	14.10	8.29	14.15	5.95	14.71	6.21	14.52	7.69	---	---	---	---
5	14.11	7.38	14.63	6.38	14.29	6.46	13.69	7.55	---	---	---	---
6	14.17	7.05	14.27	6.36	13.70	6.51	13.34	9.14	---	---	---	---
7	14.13	6.78	13.78	6.69	12.72	6.70	14.40	9.54	---	---	---	---
8	13.96	6.84	13.20	7.00	12.63	7.25	14.21	10.15	---	---	---	---
9	13.95	7.11	13.13	7.77	12.67	7.86	14.44	10.19	---	---	---	---
10	13.60	7.26	13.07	7.85	13.04	8.11	14.90	9.50	---	---	---	---
11	13.25	7.29	13.06	7.92	13.32	8.49	14.36	8.45	---	---	---	---
12	12.76	7.29	13.32	8.44	13.69	8.28	14.47	7.12	---	---	---	---
13	12.67	7.39	13.06	7.87	13.68	7.70	14.55	6.03	---	---	---	---
14	13.03	7.69	13.02	7.54	13.80	7.72	---	---	---	---	---	---
15	12.67	7.73	13.89	7.60	13.65	7.00	---	---	---	---	---	---
16	12.87	7.86	13.32	6.90	13.63	6.73	---	---	---	---	13.76	8.56
17	13.07	7.73	13.42	6.87	13.68	6.77	---	---	---	---	13.77	8.74
18	13.22	7.61	12.93	6.50	13.58	6.72	---	---	---	---	14.00	8.40
19	13.33	7.47	13.06	6.54	13.48	6.63	---	---	---	---	13.95	8.10
20	13.23	7.29	13.11	6.79	13.44	6.91	---	---	---	---	14.52	8.46
21	13.29	7.32	12.92	6.75	13.12	7.14	---	---	---	---	14.56	8.19
22	13.33	7.53	12.62	6.87	12.82	7.46	---	---	---	---	14.83	8.70
23	13.22	7.68	12.45	7.35	12.75	8.13	---	---	---	---	14.28	8.52
24	12.91	7.71	12.35	8.00	13.35	8.10	---	---	---	---	13.50	8.17
25	12.66	7.86	12.77	8.19	12.88	8.23	---	---	---	---	13.07	8.05
26	12.33	7.87	12.63	7.92	13.08	8.15	---	---	---	---	12.99	7.95
27	12.03	7.85	12.72	7.91	13.53	7.59	---	---	---	---	13.11	8.08
28	12.26	7.85	12.89	7.71	13.81	6.94	---	---	---	---	13.37	8.01
29	12.45	7.93	13.34	6.93	14.28	6.60	---	---	---	---	13.53	8.17
30	12.71	7.82	13.90	6.62	14.48	6.15	---	---	---	---	13.62	8.14
31	13.09	7.68	---	---	14.70	5.97	---	---	---	---	13.63	7.82
MONTH	14.17	6.78	14.63	5.95	15.07	5.97	---	---	---	---	---	---

11181360 SAN PABLO STRAIT AT SAN PABLO, CA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.50	7.74	13.95	6.58	13.37	7.50	13.43	7.32	13.48	8.37	13.73	7.89
2	13.22	7.86	13.58	7.28	13.27	7.30	13.13	7.83	13.62	8.79	13.70	7.75
3	13.19	7.83	13.17	7.03	12.67	7.75	13.13	8.10	13.81	8.44	13.63	7.59
4	12.93	8.03	12.90	7.71	12.41	8.06	13.37	8.37	13.90	8.24	13.71	7.26
5	12.83	8.32	12.53	8.03	12.23	7.91	13.52	8.84	14.18	7.90	13.77	6.93
6	12.87	8.69	12.20	8.29	12.35	8.19	13.67	8.73	14.45	7.41	13.97	6.78
7	12.67	8.70	12.25	8.45	13.16	8.81	13.94	8.37	14.42	7.11	13.99	7.08
8	12.10	8.33	12.38	8.47	13.52	8.39	14.34	7.52	14.62	6.56	13.90	7.37
9	11.83	8.11	12.71	8.57	13.86	7.60	14.49	6.55	14.75	6.67	13.88	7.64
10	12.18	7.97	13.11	8.72	14.19	6.86	14.72	6.49	14.33	6.73	13.65	8.04
11	12.72	8.11	13.59	8.35	14.43	6.20	14.80	6.06	14.33	6.76	13.66	8.18
12	13.51	8.14	14.41	7.65	14.53	5.80	14.54	6.09	14.00	7.02	13.53	8.12
13	13.33	8.04	14.70	7.28	14.67	4.93	14.54	6.00	13.59	7.51	13.44	8.26
14	13.64	7.11	14.81	6.27	14.67	5.24	14.31	6.23	13.73	8.12	13.30	8.44
15	14.20	6.67	14.73	5.77	14.63	5.85	14.05	6.87	13.83	8.81	13.15	8.55
16	14.20	6.60	14.83	5.85	14.21	5.58	13.82	7.37	13.69	8.84	12.88	8.54
17	14.25	6.33	14.66	5.72	13.42	6.00	13.73	8.22	13.40	8.57	12.88	8.50
18	14.22	6.02	14.10	5.90	13.13	7.19	13.72	8.86	13.36	8.57	12.99	8.46
19	13.69	6.25	13.57	6.35	13.11	7.92	13.53	8.88	13.42	8.39	13.18	8.37
20	13.62	6.53	13.00	7.11	13.33	8.63	13.43	8.57	13.62	8.37	13.28	8.30
21	12.67	6.93	13.07	7.93	13.49	8.56	13.51	8.37	13.63	8.10	13.48	8.11
22	12.44	7.43	13.21	8.35	13.54	8.16	13.58	8.09	13.84	7.90	13.39	8.14
23	12.84	7.79	13.52	8.86	13.65	7.56	13.71	7.66	13.82	7.88	13.46	8.15
24	13.22	8.08	13.65	8.42	13.90	7.47	13.71	7.36	13.81	7.76	13.52	8.24
25	13.42	8.38	13.78	7.70	14.03	7.38	13.86	7.12	13.72	7.66	13.80	8.05
26	13.61	8.15	13.69	7.53	14.07	7.22	13.98	6.83	13.66	7.67	13.97	7.72
27	13.80	7.93	13.63	7.09	13.96	7.12	13.86	7.12	13.47	7.80	14.04	7.54
28	14.13	7.12	13.55	6.55	13.90	6.95	13.86	7.14	13.21	7.92	13.85	7.49
29	14.04	7.09	13.59	6.28	13.84	6.93	13.63	7.23	13.39	8.22	13.77	7.47
30	13.84	6.77	13.59	6.25	13.72	7.02	13.31	7.32	13.52	8.24	13.67	7.48
31	---	---	13.45	7.03	---	---	13.31	7.97	13.73	8.07	---	---
MONTH	14.25	6.02	14.83	5.72	14.67	4.93	14.80	6.00	14.75	6.56	14.04	6.78

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1989 to current year.
WATER TEMPERATURE: October 1989 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1989.

REMARKS.--Interruptions in record were due to malfunction of the sensing and/or recording instruments. Upper probe is set about 4.0 ft below Mean Lower Low Water (MLLW). Lower probe is set about 20.0 ft below MLLW. Daily maximums and minimums sometimes differ from tidal-cycle (24.8 hours) maximums and minimums.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 50,900 microsiemens, Aug. 25, 28, 1992; minimum recorded, 370 microsiemens, Mar. 18, 1995.
(Lower probe) Maximum recorded, 50,100 microsiemens, July 23, 1990; minimum recorded 2,010 microsiemens, March 24, 1995.
WATER TEMPERATURE: (Upper probe) Maximum recorded, 24.0°C, July 31, 1993; minimum recorded, 4.5°C, Dec. 23, 1990.
(Lower probe) Maximum recorded, 22.5°C, July 30, 1995; minimum recorded 5.0°C, Dec. 21, 23, 1990.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 48,800 microsiemens, Oct. 19; minimum recorded, 370 microsiemens, Mar. 18.
(Lower probe) Maximum recorded, 48,200 microsiemens, Oct. 9, 19-21, 23; minimum recorded, 2,010 microsiemens, Mar. 24.
WATER TEMPERATURE: (Upper probe) Maximum recorded, 23.5°C, Aug. 8; minimum recorded, 8.0°C, Dec. 31, Jan. 2.
(Lower probe) Maximum recorded, 22.5°C, July 30; minimum recorded, 8.5°C, Dec. 8, 9, 23, 31, Jan. 1, 2.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	47700	39300	---	---	---	---	---	---	26300	3450	40800	23200
2	47800	39300	---	---	---	---	---	---	27900	3520	40800	21400
3	47900	41200	---	---	---	---	---	---	28100	4120	39800	22200
4	48000	41500	---	---	---	---	---	---	30400	6980	39900	20200
5	47900	40700	---	---	---	---	---	---	30800	8500	41200	17500
6	48000	41200	---	---	---	---	---	---	---	---	40700	16800
7	47900	40300	---	---	---	---	---	---	32000	6800	37100	18000
8	48000	40000	---	---	---	---	---	---	32000	8770	39700	18100
9	48100	39800	---	---	---	---	---	---	33300	6460	37200	17900
10	47700	39800	---	---	---	---	---	---	34200	10500	33200	13500
11	47200	40400	---	---	---	---	---	---	33900	9270	35900	9350
12	46900	40800	---	---	---	---	---	---	34400	10700	34700	4870
13	47200	41400	---	---	---	---	---	---	32100	12000	26700	3920
14	47400	41100	---	---	---	---	---	---	36300	12100	23400	1870
15	48000	42100	---	---	---	---	---	---	32800	11400	22800	1310
16	48100	42200	---	---	---	---	---	---	32900	10300	25400	1010
17	48300	40600	---	---	---	---	---	---	33800	9830	25300	441
18	48500	41400	---	---	---	---	---	---	35000	11800	26100	370
19	48800	41600	---	---	---	---	---	---	34400	13400	22900	658
20	48700	42000	---	---	---	---	28900	7500	36300	15000	23600	670
21	48600	41800	---	---	---	---	27900	8120	36200	17200	25300	1080
22	48400	42000	---	---	---	---	30200	10400	36000	18300	18500	849
23	48500	41600	---	---	---	---	28800	10400	34000	18400	18300	829
24	48100	41800	---	---	---	---	30400	9770	37200	19200	15900	582
25	47900	42300	---	---	---	---	31000	9360	38700	20000	23300	1090
26	47400	41900	---	---	---	---	31100	8590	39500	19800	25600	1260
27	---	---	---	---	---	---	28600	7590	38200	20700	26400	2570
28	---	---	---	---	---	---	27200	5590	40500	21600	25100	3130
29	---	---	---	---	---	---	27200	3680	---	---	27300	3480
30	---	---	---	---	---	---	28200	3380	---	---	25000	3780
31	---	---	---	---	---	---	26500	3750	---	---	26700	4420
MONTH	---	---	---	---	---	---	---	---	---	---	41200	370

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25900	4990	34600	11200	36300	8730	39300	17900	43200	25300	45000	32600
2	27800	6870	33500	10300	36600	13900	39700	17800	44500	28200	45400	33200
3	29500	4240	34400	7470	37000	6380	39600	19000	44200	28900	44300	32200
4	29500	6530	37600	6300	36800	11200	40100	17900	44300	28500	44500	32500
5	34100	5430	37700	4970	38500	12900	39600	18800	45100	28200	45500	31500
6	35800	6930	34700	5660	40000	12700	37600	18400	45000	29400	45500	31100
7	29600	7350	33100	5070	38800	13200	41100	19800	44900	29700	45500	30600
8	34900	5660	33800	5230	39000	19500	41800	18800	44900	30900	45200	30600
9	38100	6830	28700	5550	39900	16000	41800	21800	44900	30100	44700	31100
10	36300	8580	33500	6760	42300	19600	42800	25400	44900	31200	43900	29800
11	38900	12000	30200	8190	41400	22200	41800	25200	44400	31600	44700	30000
12	34900	13100	32800	9080	40700	21400	43700	26000	44300	18500	44400	29600
13	32000	12500	36000	9140	42400	19700	43600	23600	44200	29200	43100	30300
14	34500	9450	36700	8440	42800	18700	43200	24000	44500	29600	43300	28300
15	33500	11500	37400	9740	42800	18000	42600	23100	44800	33400	41400	28200
16	35900	12800	36800	12100	41200	17800	41100	20900	44700	31900	42500	26300
17	34100	10800	33500	8270	38600	13800	42700	23400	44600	31700	43000	25100
18	36100	10400	32300	7940	38700	14300	41000	20500	43600	30200	42800	23400
19	32800	7610	33100	6250	37400	16100	39500	19400	43300	26400	42000	26500
20	32900	7870	34500	6070	38700	15200	40200	18000	43600	27600	40300	26300
21	34300	5830	34200	9100	36700	15400	42500	18700	42600	30000	43100	25900
22	37000	8090	32700	9360	38800	15200	41800	18800	44300	33000	43300	27500
23	38000	11900	33600	8860	38500	15900	38700	22000	---	---	43800	30300
24	35200	13300	32000	12300	38700	16300	39800	19000	45100	32400	43900	29700
25	34600	15200	33700	11900	39000	18900	42100	23000	45800	32600	43900	29200
26	36400	15700	33000	10100	40700	17700	42000	22300	45500	31700	44200	28500
27	35700	13600	33500	9460	41300	23300	42000	22700	45600	30800	44400	28500
28	37600	12800	33500	9950	39500	22100	42300	24700	44900	31600	43300	30300
29	38800	13600	33900	9010	38900	19100	42500	26100	45800	31700	43500	27200
30	36800	12700	35100	7670	39300	18400	42700	22400	45900	31400	41000	22500
31	---	---	35300	7750	---	---	42900	24600	46500	30600	---	---
MONTH	38900	4240	37700	4970	42800	6380	43700	17800	---	---	45500	22500

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	47500	39100	---	---	---	---	---	---	32700	3950	40500	24200
2	47600	38900	---	---	---	---	---	---	31900	4540	40600	24800
3	47700	41400	---	---	---	---	---	---	33800	4750	39800	23500
4	48000	41300	---	---	---	---	---	---	35300	8890	39600	22400
5	47700	40600	---	---	---	---	---	---	33600	9080	41000	21600
6	47900	41700	---	---	---	---	---	---	---	---	41100	20900
7	48000	40500	---	---	---	---	---	---	37900	9650	41200	20300
8	48000	39900	---	---	---	---	---	---	39200	9380	43000	20700
9	48200	40200	---	---	---	---	---	---	40600	7050	37100	19900
10	48100	4070(	---	---	---	---	---	---	39600	11500	37500	16100
11	47400	4060(	---	---	---	---	---	---	40600	11300	40500	11100
12	47300	4070(	---	---	---	---	---	---	40000	10800	39700	6900
13	47300	4200(	---	---	---	---	---	---	36300	13900	37600	6170
14	47700	4200(	---	---	---	---	---	---	36400	12100	33100	3750
15	47900	42000	---	---	---	---	---	---	36800	11700	29000	2790
16	47800	42600	---	---	---	---	---	---	36800	10600	28500	3090
17	47900	42400	---	---	---	---	---	---	37000	10700	27700	3090
18	48100	41600	---	---	---	---	---	---	36600	15800	27400	2800
19	48200	41300	---	---	---	---	---	---	37800	15200	29000	2390
20	48200	41700	---	---	---	---	36500	8890	39800	16700	32500	2120
21	48200	41600	---	---	---	---	34800	9740	41600	18500	31300	3220
22	48100	42200	---	---	---	---	37000	11300	40700	20700	27300	2680
23	48200	41300	---	---	---	---	36500	11600	41700	19500	26800	2300
24	48000	41100	---	---	---	---	39700	12400	41800	20300	22800	2010
25	47900	42800	---	---	---	---	40000	10800	41800	21400	27700	2610
26	47500	43300	---	---	---	---	38800	9720	40500	20900	30000	4060
27	---	---	---	---	---	---	38800	8610	39400	21600	33800	4880
28	---	---	---	---	---	---	37400	6300	40500	22300	34300	5180
29	---	---	---	---	---	---	36600	4710	---	---	33200	4820
30	---	---	---	---	---	---	35000	4100	---	---	32900	4780
31	---	---	---	---	---	---	34200	4740	---	---	34100	5560
MONTH	---	---	---	---	---	---	---	---	---	---	43000	2010

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	34100	6010	37800	12200	38000	12200	41700	18800	43200	28600	44900	32300
2	33900	7760	38400	11600	38100	14800	41500	18500	43500	28800	45300	32900
3	36100	6290	37100	7580	39500	11100	41100	22500	43700	29000	44600	32100
4	36800	7630	38200	8390	40000	12700	41700	19800	43700	27900	44700	32300
5	39800	9960	38500	5750	---	---	42200	21600	44300	27400	45400	31700
6	39600	10200	39800	8390	43200	16300	43100	23800	---	---	45400	31200
7	39800	11000	40100	6880	43300	19100	41600	21300	44200	29000	45300	31100
8	39300	7470	39100	7280	42200	21100	42600	21100	---	---	45100	30900
9	39400	8830	38500	8350	42500	18400	42700	23600	---	---	44500	31500
10	39300	10600	38600	9520	41100	20500	42900	26000	---	---	43700	29800
11	40200	13400	39500	10900	40900	22200	42100	25600	---	---	44600	30400
12	39400	15500	39500	11400	40500	21200	43400	26600	43200	28400	44400	30500
13	39000	13600	39500	9060	41500	19600	43200	24300	42800	28400	44100	31400
14	37700	13100	37900	9010	41800	20000	42900	24500	43500	29600	44000	31100
15	38600	11900	38800	10100	42700	18300	42500	23900	43900	33000	44000	29300
16	39500	13400	38600	12200	40600	19300	42300	21700	43800	31300	43400	27400
17	38700	11400	37900	8640	40000	14200	42300	23800	43900	31300	43400	27200
18	39500	11000	37000	8850	39400	17200	42000	20300	42900	29900	43700	28400
19	39200	8420	35400	7460	41400	17200	43000	22700	42700	27900	43900	29100
20	37500	8560	36400	8570	42700	17800	42000	23700	42900	28100	43400	30600
21	37800	6410	38100	10100	43100	20400	42600	24100	42900	29700	43300	26600
22	39800	10400	38700	10700	41600	20800	42700	24400	43700	32500	43300	27800
23	38800	14700	36600	12300	41900	20800	42800	22500	---	---	43400	30100
24	39500	15700	37700	15900	42400	20400	42400	19100	44400	32500	43300	30200
25	38900	18300	39900	13200	41400	20900	42300	22600	44900	32100	43300	30800
26	39300	17400	39500	12500	41800	19100	41300	21600	44900	31000	43500	28100
27	39300	17500	39400	10900	41200	23900	43100	22100	44900	30400	43800	28200
28	39800	13000	38000	12100	41600	22800	42400	24700	44300	31300	43400	31800
29	38100	14000	38200	9640	41600	19500	42600	25500	45000	31500	43400	27300
30	38500	14600	38700	8850	41700	20200	42400	22100	45200	31400	43800	23100
31	---	---	37800	9090	---	---	42800	26600	45800	30400	---	---
MONTH	40200	6010	40100	5750	---	---	43400	18500	---	---	45400	23100

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	17.0	15.5	14.5	10.5	10.0	10.0	8.5	12.5	11.0	13.5	12.5
2	19.5	17.0	15.0	13.0	11.0	10.5	10.0	8.0	12.5	11.5	13.0	12.5
3	19.0	17.0	14.5	12.0	10.5	10.5	10.0	8.5	12.5	11.5	13.5	12.5
4	18.0	17.0	14.0	12.0	10.5	10.5	10.0	8.5	12.5	11.5	13.0	12.5
5	18.0	16.5	13.5	12.0	10.5	9.5	10.0	9.0	12.5	12.0	13.0	12.5
6	18.5	16.5	13.5	12.5	10.5	9.5	10.0	9.0	---	---	13.5	12.0
7	19.0	17.0	13.5	13.0	10.5	9.0	10.0	9.5	12.5	12.0	13.5	12.5
8	19.0	17.0	13.5	13.0	10.5	8.5	10.5	9.5	12.5	12.0	13.0	13.0
9	19.0	17.0	13.5	12.0	10.0	8.5	10.5	10.0	13.0	12.0	13.5	13.0
10	18.5	17.0	13.0	12.5	10.0	8.5	11.0	10.5	12.5	12.0	13.5	13.0
11	18.0	17.0	13.5	12.5	10.0	9.0	11.0	10.5	12.5	12.0	13.5	13.0
12	18.0	17.0	13.0	12.0	10.0	9.5	11.5	10.5	12.5	11.5	13.5	12.5
13	18.5	16.5	13.0	12.0	10.0	9.0	11.5	10.5	12.5	11.5	13.0	12.5
14	18.0	16.5	12.5	12.0	10.0	8.5	12.0	11.0	12.0	11.0	13.0	12.0
15	17.0	15.0	12.5	11.5	10.0	9.0	11.5	11.0	12.0	10.5	13.5	12.0
16	16.5	15.0	12.0	11.0	10.0	9.0	11.5	11.0	12.0	10.5	14.0	12.0
17	16.5	15.5	12.0	11.0	10.0	9.0	11.5	10.5	12.0	10.5	13.5	12.0
18	16.5	15.0	11.5	8.5	10.0	9.0	11.5	10.5	12.5	11.5	13.5	12.0
19	16.5	14.5	11.5	9.5	10.0	9.0	11.5	10.5	13.0	11.5	13.5	12.5
20	16.0	14.5	11.0	10.5	10.0	9.0	11.5	10.0	13.0	12.0	13.0	12.5
21	16.5	14.5	11.5	10.5	10.0	9.0	11.0	10.0	13.5	12.0	13.0	12.0
22	16.5	14.5	11.0	10.5	10.0	8.5	11.5	10.5	13.5	12.0	12.5	11.5
23	16.0	14.5	11.0	10.0	10.0	8.5	11.5	10.5	13.0	12.5	12.5	11.0
24	16.0	15.0	11.0	10.0	10.0	8.5	11.5	10.5	13.0	12.5	12.0	10.5
25	16.0	15.0	11.0	10.5	10.0	8.5	11.5	10.5	13.5	12.5	12.5	11.0
26	16.5	15.0	11.0	9.5	10.0	9.0	11.5	10.5	13.0	12.5	12.5	11.0
27	16.5	15.0	10.5	9.5	10.0	9.0	11.5	10.5	13.5	12.5	13.0	11.0
28	17.0	15.0	10.5	9.5	10.0	9.0	12.0	11.0	13.0	12.5	13.5	11.0
29	17.0	15.0	10.5	9.5	10.0	9.0	12.0	11.0	---	---	13.5	11.0
30	16.0	15.0	10.5	9.5	10.0	8.5	12.0	11.0	---	---	15.5	11.5
31	16.5	14.5	---	---	10.0	8.0	12.0	11.0	---	---	14.0	12.0
MONTH	19.5	14.5	15.5	8.5	11.0	8.0	12.0	8.0	---	---	15.5	10.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	12.5	16.0	13.0	18.0	14.0	19.5	16.0	21.5	17.0	19.5	17.5
2	15.0	13.0	16.5	13.5	17.0	14.0	19.5	16.0	21.0	17.0	20.0	17.5
3	15.5	12.5	17.0	13.5	18.0	13.5	19.5	16.0	21.0	17.0	20.5	17.5
4	15.5	13.5	16.5	13.5	18.0	13.5	19.0	16.0	21.0	17.0	21.0	17.0
5	15.5	13.5	16.0	13.5	18.0	13.5	19.0	16.5	20.5	16.5	21.0	17.0
6	15.5	13.5	16.5	14.0	17.0	13.0	20.0	17.0	21.0	16.5	21.0	17.0
7	15.5	14.0	16.0	13.5	17.5	13.5	20.0	16.5	20.5	16.5	21.0	17.0
8	15.0	13.5	16.5	13.5	17.5	13.5	20.5	16.5	23.5	16.5	20.5	16.5
9	15.0	12.5	15.5	13.5	18.5	13.5	21.5	16.5	21.0	16.5	20.0	16.5
10	16.0	13.5	17.5	13.0	18.0	13.0	21.0	16.5	22.0	16.5	19.5	16.5
11	16.0	13.5	16.5	13.5	18.5	13.5	20.5	17.0	21.0	16.5	20.5	17.0
12	15.5	13.5	15.0	13.0	18.5	14.0	21.0	16.0	22.0	17.0	20.0	17.0
13	15.5	13.5	14.5	12.5	18.5	13.5	20.5	16.0	22.0	17.0	20.0	17.5
14	15.5	13.0	14.5	12.5	17.5	13.5	21.5	16.5	21.5	17.0	19.5	17.5
15	14.0	13.0	15.5	12.0	17.5	13.0	22.0	17.0	20.0	17.0	19.5	17.5
16	15.0	12.0	16.5	12.5	18.0	14.0	21.0	17.5	20.0	17.0	19.5	17.5
17	13.5	12.5	15.5	13.0	17.5	14.5	20.5	17.0	20.0	17.0	20.0	17.5
18	14.5	12.0	16.5	13.5	18.0	14.5	20.5	17.5	20.5	17.5	20.5	17.5
19	13.5	12.0	16.5	13.5	18.0	15.0	21.0	18.0	21.5	17.5	21.5	17.5
20	13.5	12.0	17.0	13.5	19.0	15.0	21.0	18.0	21.5	17.5	20.5	17.5
21	14.0	11.5	16.5	13.5	20.0	15.0	21.5	17.0	20.5	18.0	20.0	17.0
22	15.0	11.5	16.0	13.5	19.5	14.5	21.0	17.5	21.0	17.5	19.5	16.5
23	16.0	11.5	16.5	13.5	20.5	15.0	21.5	18.5	20.0	17.5	20.0	16.5
24	15.5	12.0	16.0	13.5	21.5	15.5	21.0	18.0	20.0	17.5	20.0	16.5
25	16.0	12.5	16.5	14.0	21.0	15.5	20.5	17.5	20.0	17.5	20.0	17.0
26	15.0	12.5	16.5	14.0	20.0	14.5	23.0	17.5	20.5	17.5	19.5	17.0
27	15.0	13.0	17.5	14.5	19.5	14.5	21.5	17.5	20.5	17.0	19.5	17.0
28	15.0	12.5	17.5	14.0	19.5	15.5	21.0	17.5	21.0	17.5	19.0	17.0
29	15.0	12.5	18.0	14.5	19.5	15.5	21.5	17.5	20.5	17.0	19.5	17.0
30	15.0	12.5	17.5	14.0	19.5	16.0	23.0	17.5	20.0	17.0	18.5	17.5
31	---	---	18.0	14.5	---	---	22.0	17.5	19.5	17.0	---	---
MONTH	16.0	11.5	18.0	12.0	21.5	13.0	23.0	16.0	23.5	16.5	21.5	16.5

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	17.0	15.5	14.5	10.5	10.0	10.5	8.5	12.5	11.5	13.5	12.5
2	18.5	17.0	15.0	13.0	11.0	10.0	10.5	8.5	12.5	11.5	13.0	13.0
3	19.0	16.5	14.5	12.0	11.0	10.5	10.5	9.0	12.5	11.5	13.5	12.5
4	18.0	16.5	14.0	12.0	10.5	10.5	10.5	9.0	12.5	12.0	13.0	12.0
5	18.0	16.5	13.5	12.5	10.5	9.5	10.0	9.5	12.5	12.0	13.0	12.5
6	18.5	16.5	13.5	13.0	10.5	10.0	10.0	9.5	---	---	13.5	12.0
7	18.5	16.5	13.5	13.0	10.5	9.5	10.0	9.5	13.0	12.5	13.5	12.5
8	18.5	16.5	13.5	13.0	10.5	9.0	10.5	10.0	12.5	12.0	13.0	13.0
9	19.0	17.0	13.5	12.0	10.5	8.5	10.5	10.0	13.0	12.0	13.5	13.0
10	18.5	16.5	13.0	12.5	10.0	8.5	11.5	10.5	13.0	12.0	13.5	13.0
11	18.0	17.0	13.0	12.0	10.0	9.5	11.5	11.0	12.5	12.0	13.5	13.0
12	18.0	17.0	13.0	12.0	10.0	9.5	11.5	11.0	12.5	12.0	13.5	13.0
13	17.5	16.5	12.5	12.0	10.0	9.5	11.5	11.0	12.5	11.5	13.5	12.5
14	17.5	16.5	12.5	12.0	10.0	9.0	12.0	11.5	12.5	11.5	13.0	12.0
15	16.5	15.0	12.5	11.5	10.0	9.5	12.0	11.5	12.5	10.5	13.5	12.0
16	16.5	15.0	12.0	11.0	10.0	9.5	12.0	11.5	12.0	10.5	13.5	12.0
17	16.5	15.0	12.0	11.0	10.0	9.5	12.0	11.0	12.0	11.0	13.5	12.0
18	16.5	15.0	11.5	9.0	10.0	9.5	12.0	11.0	12.5	11.5	13.0	12.0
19	16.0	14.5	11.5	9.5	10.0	9.5	12.0	11.0	12.5	11.5	13.5	12.5
20	16.0	14.5	11.0	10.5	10.0	9.0	12.0	10.5	12.5	11.5	13.5	12.5
21	16.0	14.5	11.0	10.5	10.0	9.0	12.0	10.5	13.0	12.0	13.0	12.0
22	16.0	14.5	11.0	10.5	10.0	9.0	12.0	10.5	13.0	12.5	13.0	11.5
23	16.0	14.5	11.0	10.0	10.0	8.5	12.0	10.5	13.0	12.5	13.0	11.0
24	16.0	14.5	11.0	10.5	10.0	9.0	12.0	11.0	13.0	12.5	12.5	10.5
25	16.0	14.5	11.0	10.0	10.0	9.0	12.0	11.0	13.5	12.5	12.5	11.0
26	16.0	15.0	11.0	9.5	10.0	9.0	12.0	10.5	13.0	12.5	13.0	11.0
27	16.5	15.0	10.5	9.5	10.0	9.0	12.0	10.5	13.5	12.5	13.0	11.0
28	16.5	15.0	10.5	9.5	10.5	9.5	12.0	11.0	13.0	12.5	13.0	11.5
29	16.5	15.0	10.5	10.0	10.5	9.5	12.0	11.0	---	---	13.0	11.0
30	16.0	14.5	10.5	10.0	10.5	9.0	12.0	11.0	---	---	14.0	11.5
31	16.0	14.5	---	---	10.5	8.5	12.0	11.0	---	---	13.5	12.0
MONTH	19.0	14.5	15.5	9.0	11.0	8.5	12.0	8.5	---	---	14.0	10.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.0	12.5	15.0	12.0	18.0	13.5	19.0	15.0	21.0	16.5	19.5	17.0
2	14.5	12.5	15.5	12.0	17.0	13.5	19.0	15.5	20.5	16.5	20.0	16.5
3	14.0	12.5	15.5	12.5	17.5	13.0	19.0	15.5	20.5	16.5	20.5	17.0
4	14.0	13.0	15.5	12.5	17.5	13.0	19.0	15.5	20.0	16.0	21.0	17.0
5	14.5	13.0	15.5	12.5	17.0	12.5	19.0	15.5	20.0	16.0	21.0	17.0
6	15.0	13.0	15.0	12.0	17.0	11.5	19.5	15.5	20.0	16.0	21.0	17.0
7	14.5	13.0	15.5	12.0	16.5	11.5	19.5	16.0	20.0	16.5	20.5	17.0
8	14.5	13.0	15.5	12.0	17.0	12.0	20.0	16.0	22.0	16.0	20.5	16.5
9	14.0	13.0	15.0	11.5	17.5	12.0	19.5	16.0	21.0	16.5	20.0	16.5
10	15.5	13.0	16.0	11.5	17.5	13.0	19.5	16.0	21.0	16.0	20.0	16.5
11	15.5	13.0	15.5	11.5	17.5	13.5	19.5	16.5	21.0	16.5	20.0	16.5
12	15.0	13.0	14.5	11.5	18.0	13.5	20.5	16.0	21.0	16.5	19.5	16.5
13	15.5	13.0	14.5	11.5	17.5	13.0	20.5	16.0	21.0	16.5	19.5	16.5
14	15.0	13.0	14.5	12.0	17.0	13.5	21.0	16.0	21.0	16.5	19.5	17.0
15	14.0	12.5	15.0	11.5	17.5	13.5	21.5	16.5	20.0	16.5	19.5	16.5
16	14.5	11.5	15.5	11.5	17.5	14.0	21.0	16.5	20.0	16.5	19.5	17.0
17	13.5	12.0	15.5	12.0	17.5	14.0	20.5	16.5	20.0	16.5	19.5	17.0
18	13.5	11.5	16.0	12.5	17.5	14.0	20.5	16.5	20.0	17.0	20.0	16.5
19	13.0	11.5	16.0	13.0	18.0	13.5	20.5	16.0	20.5	17.0	19.5	16.5
20	13.0	11.5	16.5	13.0	18.0	13.0	20.0	16.5	21.0	17.5	20.0	16.5
21	13.0	11.0	16.0	12.5	18.5	12.5	20.5	16.5	20.5	17.5	19.5	16.5
22	14.0	11.0	16.0	12.5	18.5	13.5	20.5	16.5	20.5	17.5	19.0	16.5
23	15.5	11.0	16.5	12.5	18.5	13.0	20.5	16.5	20.0	17.0	19.0	16.5
24	15.5	11.0	16.0	12.5	20.0	13.5	20.5	16.5	20.0	17.0	19.5	16.5
25	15.5	11.0	16.5	12.5	20.5	13.5	20.0	16.5	19.5	17.0	19.5	16.5
26	15.0	11.0	17.0	12.5	20.5	13.5	20.0	17.0	20.5	17.0	20.0	16.5
27	15.0	11.0	16.5	13.0	19.5	14.5	21.0	16.5	20.5	17.0	19.5	17.0
28	14.5	11.5	16.5	13.0	19.0	14.0	20.5	16.5	20.5	17.5	19.0	17.0
29	15.0	12.0	17.0	13.5	19.5	14.5	20.5	16.5	20.5	17.0	19.0	16.5
30	14.5	12.0	17.0	13.5	19.0	15.0	22.5	16.5	20.0	17.0	19.5	16.5
31	---	---	17.5	13.5	---	---	21.0	16.5	19.5	17.0	---	---
MONTH	15.5	11.0	17.5	11.5	20.5	11.5	22.5	15.0	22.0	16.0	21.0	16.5

11181390 WILDCAT CREEK AT VALE ROAD, AT RICHMOND, CA

LOCATION.--Lat 37°57'12", long 122°20'14", in San Pablo Grant, Contra Costa County, Hydrologic Unit 18050002, on left bank at upstream side of Vale Road Bridge at Richmond, 3.6 mi upstream from mouth.

DRAINAGE AREA.--7.79 mi^2.

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR CA-81-2: 1979-80(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 65.56 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Minor storage in Lake Anza and Jewel Lake 5 mi upstream. No diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft^3/s, Jan. 4, 1982, gage height, 14.68 ft recorded, 15.80 ft from floodmarks, from rating curve extended above 400 ft^3/s on basis of slope-area measurement of peak flow; no flow at times in 1979, 1987-94.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1915	1,220	7.71	Mar. 11	1500	*1,240	*7.81
Jan. 27	0930	537	5.06	Mar. 14	1930	405	4.65
Mar. 9	1100	892	6.22	Mar. 22	0630	579	5.20

Minimum daily, 0.01 ft^3/s, several days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.02	.02	.27	15	2.4	6.6	15	1.4	.28	.04	.02
2	.02	.03	.01	.51	13	32	6.1	6.7	1.4	.18	.04	.02
3	.02	.02	6.0	2.9	11	25	5.5	4.6	1.5	.28	.02	.02
4	.23	.02	20	11	9.3	8.0	5.2	4.2	1.3	.29	.02	.02
5	.02	31	.26	7.5	8.6	6.8	4.7	3.9	1.2	.21	.03	.02
6	.01	71	.07	2.2	7.9	4.9	4.8	3.6	1.2	.16	.05	.02
7	.02	1.5	e.07	12	7.4	4.3	6.1	3.5	1.2	.14	.07	.02
8	.03	.10	e.07	77	7.1	9.3	4.4	3.3	1.1	.12	.05	.01
9	.02	9.9	e.08	338	6.3	282	3.8	3.2	1.1	.11	.04	.01
10	.02	2.9	e.08	388	5.6	140	3.6	3.4	1.1	.11	.03	.01
11	.02	.17	.10	63	5.5	277	3.4	3.1	1.1	.10	.03	.01
12	.02	.03	24	36	5.3	39	3.2	3.1	.72	.09	.04	.01
13	.02	e.02	6.7	34	4.9	26	4.0	3.9	.55	.10	.03	.01
14	.02	e.01	3.1	55	4.7	75	2.9	3.5	.67	.09	.03	.01
15	.01	2.6	1.6	30	4.2	30	3.1	3.3	2.7	.09	.03	.02
16	.02	1.0	.48	18	3.9	15	3.4	2.6	4.5	.08	.03	.01
17	.02	.44	.25	13	3.8	11	2.5	2.5	1.2	.07	.03	.02
18	.03	.08	.19	11	3.7	11	3.5	2.9	.70	.08	.03	.02
19	.02	e.05	.12	9.4	3.6	9.2	2.6	2.6	.59	.09	.04	.02
20	.02	e.05	.11	12	3.7	22	3.4	2.4	.46	.10	.03	.02
21	.02	e.05	.09	15	3.4	20	2.8	2.3	.40	.10	.02	.02
22	.03	e.05	.05	16	2.9	225	2.2	2.5	.34	.08	.03	.02
23	.03	e.05	.05	30	2.9	76	2.2	2.3	.32	.08	.02	.02
24	.02	2.8	.22	23	2.9	23	1.9	2.2	.29	.07	.02	.02
25	.02	5.4	.11	14	2.8	14	1.9	2.1	.21	.07	.02	.02
26	.03	1.9	.05	72	2.5	11	1.9	2.1	.16	.08	.02	.02
27	.02	.51	.09	323	2.4	9.4	2.4	2.1	.18	.07	.02	.02
28	.02	.25	.11	66	2.3	8.5	3.2	1.8	.25	.05	.02	.02
29	.01	.10	.03	30	---	7.8	4.6	1.6	.24	.04	.02	.02
30	.02	.04	.03	39	---	7.2	4.7	1.5	.24	.05	.02	.02
31	.02	---	.06	21	---	6.8	---	1.5	---	.04	.02	---
TOTAL	0.86	132.09	64.20	1769.78	156.6	1438.6	110.6	103.3	28.32	3.50	0.94	0.52
MEAN	.028	4.40	2.07	57.1	5.59	46.4	3.69	3.33	.94	.11	.030	.017
MAX	.23	71	24	388	15	282	6.6	15	4.5	.29	.07	.02
MIN	.01	.01	.01	.27	2.3	2.4	1.9	1.5	.16	.04	.02	.01
AC-FT	1.7	262	127	3510	311	2850	219	205	56	6.9	1.9	1.0

e Estimated.

11181390 WILDCAT CREEK AT VALE ROAD, AT RICHMOND, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.46	2.40	5.51	15.6	17.2	13.8	4.18	.92	.35	.17	.12	.17
MAX	2.20	8.89	27.8	72.1	77.8	63.4	36.1	4.68	1.52	.83	.47	.88
(WY)	1987	1982	1982	1993	1986	1983	1982	1983	1983	1983	1983	1986
MIN	.005	.071	.14	.064	.60	.28	.14	.022	.004	.001	.004	.000
(WY)	1989	1993	1990	1991	1989	1988	1990	1992	1987	1989	1987	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1976 - 1995	
ANNUAL TOTAL	1347.20		3809.31			
ANNUAL MEAN	3.69		10.4		5.03	
HIGHEST ANNUAL MEAN					15.3	1982
LOWEST ANNUAL MEAN					.43	1976
HIGHEST DAILY MEAN	133	Feb 20	388	Jan 10	1010	Jan 4 1982
LOWEST DAILY MEAN	.00	Jun 11	.01	Oct 6	.00	Aug 31 1979
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 26	.01	Sep 8	.00	Jun 11 1987
INSTANTANEOUS PEAK FLOW			1240	Mar 11	2050	Jan 4 1982
INSTANTANEOUS PEAK STAGE			7.81	Mar 11	15.80	Jan 4 1982
ANNUAL RUNOFF (AC-FT)	2670		7560		3640	
10 PERCENT EXCEEDS	5.6		15		7.7	
50 PERCENT EXCEEDS	.03		.59		.25	
90 PERCENT EXCEEDS	.00		.02		.01	

11182500 SAN RAMON CREEK AT SAN RAMON, CA

LOCATION.--Lat 37°46'23", long 121°59'37", in sec.8, T.2 S., R.1 W., Contra Costa County, Hydrologic Unit 18050001, on right bank 0.2 mi downstream from Bollinger Creek and 1.0 mi southwest of San Ramon.

DRAINAGE AREA.--5.89 mi^2.

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1445: 1953-54(P).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 530 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft^3/s, Oct. 13, 1962, gage height, 16.98 ft, from rating curve extended above 200 ft^3/s on basis of culvert computations at gage heights 11.80, 12.09, 14.20, and 16.98 ft; no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1830	*425	*5.18	Mar. 22	0915	343	4.62
Mar. 10	1415	353	4.69				

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.19	.49	13	2.1	12	15	e1.3	e.74	.32	.16
2	.00	.01	.19	.46	11	11	11	5.9	e1.3	e.73	.33	.17
3	.00	.01	.20	1.6	9.8	15	11	4.7	e1.3	e.72	.32	.17
4	.03	.01	.32	1.8	8.2	5.9	9.8	4.2	e1.3	e.74	.34	.16
5	.00	.01	.52	4.5	7.4	4.8	9.3	4.0	e1.2	e.74	.39	.17
6	.00	.39	.28	2.0	7.4	3.9	9.5	3.8	e1.2	e.68	.37	.24
7	.00	7.5	.22	4.3	6.9	3.8	13	3.6	e1.1	e.67	.34	.22
8	.00	.24	.19	6.1	5.8	6.7	9.3	3.6	e1.1	e.64	.32	.16
9	.00	.01	.19	63	4.8	51	8.0	3.6	e1.1	e.57	.28	.11
10	.00	.93	.19	105	4.3	89	7.2	3.6	e1.1	e.58	.30	.12
11	.00	.72	.19	21	4.1	37	6.8	3.6	e1.1	e.59	.34	.14
12	.00	.06	.30	17	3.8	28	6.3	3.9	e1.0	e.60	.26	.12
13	.00	.01	.82	12	3.6	20	6.9	6.0	e1.0	e.57	.23	.10
14	.00	.01	.53	46	3.3	18	5.8	11	e1.0	.68	.20	.11
15	.00	.01	2.1	34	3.1	20	7.5	6.5	e1.6	.64	.17	.10
16	.00	.31	.66	25	2.9	16	6.6	4.5	e2.2	.61	.18	.12
17	.00	.27	.49	13	2.6	13	5.7	3.7	e1.4	.63	.21	.10
18	.00	.20	.42	9.7	2.6	13	5.9	3.5	e1.1	.63	.19	.09
19	.00	.10	.39	7.8	2.5	11	5.1	3.4	e1.1	.59	.17	.05
20	.00	.03	.36	8.5	2.3	38	5.8	e2.0	e1.0	.65	.15	.05
21	.00	.02	.37	6.7	2.3	30	4.7	e1.9	e.95	.62	.14	.03
22	.00	.03	.32	8.0	2.3	136	4.3	e1.8	e.90	.58	.14	.06
23	.00	.02	.32	13	2.2	76	4.1	e1.7	e.87	.60	.13	.09
24	.00	.02	.69	13	2.1	35	3.9	e1.8	e.84	.58	.14	.10
25	.00	.04	.65	7.9	2.0	26	3.8	e1.7	e.80	.58	.17	.10
26	.00	3.9	.39	9.8	1.9	22	3.7	e1.6	e.75	.52	.22	.10
27	.00	1.4	.36	82	1.9	19	4.0	e1.5	e.70	.40	.30	.07
28	.00	.46	.44	33	2.0	17	3.9	e1.5	e.72	.39	.20	.09
29	.00	.37	.40	22	---	16	5.8	e1.4	e.75	.42	.18	.07
30	.00	.23	.36	21	---	14	4.5	e1.3	e.75	.40	.14	.07
31	.00	---	.39	16	---	13	---	e1.3	---	.36	.15	---
TOTAL	0.03	17.32	13.44	615.65	126.1	811.2	205.2	117.6	32.53	18.45	7.32	3.44
MEAN	.001	.58	.43	19.9	4.50	26.2	6.84	3.79	1.08	.60	.24	.11
MAX	.03	7.5	2.1	105	13	136	13	15	2.2	.74	.39	.24
MIN	.00	.00	.19	.46	1.9	2.1	3.7	1.3	.70	.36	.13	.03
AC-FT	.06	34	27	1220	250	1610	407	233	65	37	15	6.8

e Estimated.

11182500 SAN RAMON CREEK AT SAN RAMON, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.52	.62	3.23	8.46	8.82	7.63	4.82	1.34	.51	.20	.077	.051
MAX	17.0	5.49	27.2	30.8	45.4	60.6	44.9	4.92	1.99	.83	.40	.33
(WY)	1963	1984	1956	1956	1986	1983	1958	1967	1967	1958	1983	1982
MIN	.000	.000	.001	.002	.039	.17	.016	.000	.000	.000	.000	.000
(WY)	1953	1956	1977	1991	1991	1977	1977	1977	1976	1955	1954	1954

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1953 - 1995	
ANNUAL TOTAL	145.35		1968.28			
ANNUAL MEAN	.40		5.39		3.00	
HIGHEST ANNUAL MEAN					12.4	1983
LOWEST ANNUAL MEAN					.029	1977
HIGHEST DAILY MEAN	15	Feb 20	136	Mar 22	411	Oct 13 1962
LOWEST DAILY MEAN	.00	Jul 23	.00	Oct 1	.00	Oct 1 1952
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 23	.00	Oct 5	.00	Oct 1 1952
INSTANTANEOUS PEAK FLOW			425	Jan 9	1600	Oct 13 1962
INSTANTANEOUS PEAK STAGE			5.18	Jan 9	16.98	Oct 13 1962
ANNUAL RUNOFF (AC-FT)	288		3900		2170	
10 PERCENT EXCEEDS	.63		13		6.0	
50 PERCENT EXCEEDS	.19		.75		.27	
90 PERCENT EXCEEDS	.00		.01		.00	

11456000 NAPA RIVER NEAR ST. HELENA, CA

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank 0.2 mi upstream from highway bridge, 1.3 mi northeast of Zinfandel, and 2.5 mi east of St. Helena.

DRAINAGE AREA.--81.4 mi^2.

PERIOD OF RECORD.--October 1929 to September 1932, October 1939 to June 30, 1995. Stage only July 1, 1995 to Sept. 30. Monthly discharge only for some periods, published in WSP 1315-B.
WATER TEMPERATURE.--Water years 1958-79.
SEDIMENT DATA.--Water years 1961-62.

REVISED RECORDS.--WSP 1929: Drainage area. WDR CA-78-2: 1977(M).

GAGE.--Water-stage recorder. Datum of gage is 170.12 ft above sea level. Prior to Nov. 22, 1958, at datum 3.00 ft higher. Nov. 22, 1958, to July 22, 1976, at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good above 10 ft^3/s and fair below. Some regulation by Kimball Creek Reservoir, capacity 344 acre-ft, since 1939, and Bell Canyon Reservoir, capacity, 2,530 acre-ft, since 1959. Small diversions upstream from station for irrigation of about 1,500 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft^3/s, Feb. 17, 1986, gage height, 18.52 ft, from rating curve extended above 11,000 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0015	9,150	17.47	Jan. 14	0130	6,310	15.05
Mar. 9	1045	*11,100	*18.51				

No flow for period Oct. 1-3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.10	11	24	473	54	159	774	30	---	---	---
2	.00	.13	9.5	29	372	77	145	349	29	---	---	---
3	.00	.11	209	59	297	99	131	213	27	---	---	---
4	.02	.11	333	227	246	80	122	163	26	---	---	---
5	.05	1.8	91	364	209	70	112	133	24	---	---	---
6	.06	34	48	309	181	61	137	111	24	---	---	---
7	.07	8.8	34	1190	158	54	299	98	24	---	---	---
8	.07	3.1	27	4790	158	234	235	88	23	---	---	---
9	.07	17	23	5840	135	7330	173	82	22	---	---	---
10	.07	29	21	3440	119	3440	140	80	22	---	---	---
11	.06	8.8	20	1260	111	1900	123	72	22	---	---	---
12	.06	4.8	29	939	104	976	114	70	21	---	---	---
13	.06	3.5	31	2760	183	1200	120	107	21	---	---	---
14	.07	2.8	69	3630	210	1480	101	95	20	---	---	---
15	.08	12	92	1270	148	1240	97	79	23	---	---	---
16	.11	17	53	700	124	741	95	69	27	---	---	---
17	.11	7.5	40	456	110	526	86	64	22	---	---	---
18	.11	4.9	36	341	99	432	82	59	21	---	---	---
19	.13	4.2	33	266	92	348	76	55	19	---	---	---
20	.13	3.8	29	235	87	888	71	50	19	---	---	---
21	.05	3.8	27	242	82	800	65	49	18	---	---	---
22	.05	3.7	25	573	77	1760	61	48	17	---	---	---
23	.05	3.5	23	1290	72	1550	61	44	15	---	---	---
24	.03	3.2	26	978	67	1000	58	42	14	---	---	---
25	.05	21	25	622	63	660	55	41	13	---	---	---
26	.06	38	22	693	62	483	54	39	12	---	---	---
27	.07	28	21	1110	59	376	54	38	12	---	---	---
28	.07	22	22	988	55	303	55	36	11	---	---	---
29	.13	18	21	709	---	251	86	35	11	---	---	---
30	.17	14	21	806	---	215	83	33	12	---	---	---
31	.13	---	21	637	---	183	---	30	---	---	---	---
TOTAL	2.19	318.65	1492.5	36777	4153	28811	3250	3246	601	---	---	---
MEAN	.071	10.6	48.1	1186	148	929	108	105	20.0	---	---	---
MAX	.17	38	333	5840	473	7330	299	774	30	---	---	---
MIN	.00	.10	9.5	24	55	54	54	30	11	---	---	---
AC-FT	4.3	632	2960	72950	8240	57150	6450	6440	1190	---	---	---

CAL YR 1994 TOTAL 8719.82 MEAN 23.9 MAX 577 MIN .00 AC-FT 17300

11456000 NAPA RIVER NEAR ST. HELENA, CA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	3.10	3.08	2.96	2.94	2.88	2.85
2	---	---	---	---	---	---	3.09	3.09	2.95	2.91	2.88	2.87
3	---	---	---	---	---	---	3.09	3.09	2.93	2.91	2.87	2.85
4	---	---	---	---	---	---	3.09	3.09	2.94	2.92	2.86	2.85
5	---	---	---	---	---	---	3.09	3.08	2.93	2.92	2.86	2.85
6	---	---	---	---	---	---	3.08	3.06	2.94	2.93	2.85	2.84
7	---	---	---	---	---	---	3.06	3.05	2.95	2.93	2.84	2.84
8	---	---	---	---	---	---	3.06	3.05	2.93	2.90	2.84	2.84
9	---	---	---	---	---	---	3.05	3.03	2.93	2.90	2.84	2.82
10	---	---	---	---	---	---	3.04	3.02	2.92	2.91	2.82	2.82
11	---	---	---	---	---	---	3.05	3.02	2.91	2.89	2.82	2.82
12	---	---	---	---	---	---	3.07	3.02	2.92	2.89	2.82	2.81
13	---	---	---	---	---	---	3.03	3.01	2.92	2.91	2.83	2.81
14	---	---	---	---	---	---	3.06	3.03	2.91	2.89	2.82	2.81
15	---	---	---	---	---	---	3.05	3.02	2.90	2.89	2.81	2.81
16	---	---	---	---	---	---	3.03	3.02	2.91	2.90	2.81	2.81
17	---	---	---	---	---	---	3.04	3.03	2.90	2.85	2.81	2.81
18	---	---	---	---	---	---	3.05	3.04	2.87	2.85	2.81	2.80
19	---	---	---	---	---	---	3.04	3.02	2.87	2.87	2.80	2.80
20	---	---	---	---	---	---	3.03	3.03	2.88	2.83	2.81	2.80
21	---	---	---	---	---	---	3.04	3.03	2.86	2.83	2.81	2.81
22	---	---	---	---	---	---	3.04	3.01	2.89	2.86	2.81	2.81
23	---	---	---	---	---	---	3.01	2.99	2.88	2.87	2.81	2.80
24	---	---	---	---	---	---	3.00	2.99	2.88	2.86	2.80	2.80
25	---	---	---	---	---	---	3.00	3.00	2.86	2.86	2.80	2.79
26	---	---	---	---	---	---	3.00	2.98	2.86	2.85	2.80	2.79
27	---	---	---	---	---	---	2.99	2.98	2.85	2.83	2.80	2.79
28	---	---	---	---	---	---	3.00	2.99	2.83	2.83	2.79	2.79
29	---	---	---	---	---	---	2.99	2.98	2.86	2.83	2.80	2.79
30	---	---	---	---	---	---	2.98	2.98	2.86	2.85	2.80	2.80
31	---	---	---	---	---	---	2.98	2.95	2.85	2.85	---	---
MONTH	---	---	---	---	---	---	3.10	2.95	2.96	2.83	2.88	2.79

11458000 NAPA RIVER NEAR NAPA, CA

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County, Hydrologic Unit 18050002, on left bank at downstream side of Oak Knoll Avenue Bridge, 0.4 mi downstream from Dry Creek, 5 mi north of Napa, and 12.8 mi downstream from Conn Dam.

DRAINAGE AREA.--218 mi^2.

PERIOD OF RECORD.--October 1929 to September 1932, October 1959 to current year. Monthly discharge only for some periods, published in WSP 1315-B.
CHEMICAL DATA: Water years 1973-93.
BIOLOGICAL DATA: Water years 1978-81.
SPECIFIC CONDUCTANCE: Water years 1978-93.
WATER TEMPERATURE: Water years 1977-93.
SEDIMENT DATA: Water years 1971, 1977-93.

REVISED RECORDS.--WSP 1315-B: 1930(M). WDR CA-87-2: 1963(M), 1965(M), 1967(M), 1982-85.

GAGE.--Water-stage recorder. Datum of gage is 24.74 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Lake Hennessey beginning in December 1945, 12.8 mi upstream, capacity 31,000 acre-ft; Rector Reservoir beginning in 1948, 12.4 mi upstream, capacity 4,400 acre-ft; Bell Canyon Reservoir beginning in 1959, 19.6 mi upstream, capacity 2,530 acre-ft. Diversions for irrigation upstream from station of about 10,000 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,100 ft^3/s, Feb. 18, 1986, gage height, 30.20 ft, from floodmarks; maximum gage height, 30.50 ft, Mar. 9, 1995; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,600 ft^3/s, Mar. 9, gage height, 30.50 ft; minimum daily, 0.21 ft^3/s, Oct. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	1.4	19	22	1090	136	415	724	59	19	3.3	1.8
2	.22	1.5	17	27	859	191	375	494	58	21	2.7	2.1
3	.21	1.6	58	95	700	246	342	317	54	21	2.5	2.1
4	.70	1.5	734	345	763	204	311	257	52	21	2.6	2.1
5	1.6	5.4	280	723	508	184	289	227	50	20	2.7	2.4
6	1.2	27	107	515	442	166	284	195	48	17	3.6	2.4
7	.72	22	60	1370	392	149	407	178	48	18	4.0	2.4
8	.55	11	38	8310	397	261	396	162	47	18	3.5	2.4
9	.59	13	28	18400	352	19100	323	150	44	17	3.6	2.5
10	.63	38	23	13900	310	15200	282	149	43	16	3.7	2.6
11	.56	27	20	4280	288	7590	256	139	42	15	3.4	2.3
12	.62	16	34	2160	271	3100	241	131	40	14	3.0	1.8
13	.57	11	47	4150	294	2510	238	171	36	14	3.2	2.1
14	.52	8.1	66	11600	375	2950	222	182	37	12	2.8	2.5
15	.75	9.8	229	4230	288	2830	211	159	40	12	3.0	2.7
16	.78	21	115	1960	256	1620	206	143	54	13	3.4	2.8
17	.75	20	73	1270	238	1180	190	132	48	12	2.8	2.7
18	1.0	15	55	941	222	973	182	123	43	11	3.1	2.6
19	1.1	11	46	741	207	815	170	116	40	9.7	2.8	2.1
20	1.0	9.6	38	649	199	1570	160	107	38	11	2.7	1.4
21	1.0	8.9	33	745	191	1520	148	100	35	11	2.8	1.2
22	1.9	8.5	28	1210	182	4020	140	98	34	12	2.8	1.5
23	2.5	8.4	25	3040	172	3910	133	92	32	13	2.6	1.8
24	1.4	8.3	28	2320	165	2420	128	86	31	12	2.8	1.8
25	1.2	13	29	1450	159	1440	121	82	32	11	2.2	1.9
26	1.3	33	23	1350	153	1040	115	79	30	12	2.5	1.4
27	1.3	42	21	2610	144	830	115	76	26	9.4	2.4	1.5
28	1.5	29	22	2250	124	697	116	73	22	8.8	2.1	1.5
29	1.3	25	21	1640	---	598	143	70	20	7.1	1.7	1.5
30	1.3	21	20	1770	---	520	156	69	19	6.1	1.8	1.5
31	1.2	---	20	1500	---	460	---	62	---	5.1	1.8	---
TOTAL	30.27	468.0	2357	95573	9741	78430	6815	5143	1202	419.2	87.9	61.4
MEAN	.98	15.6	76.0	3083	348	2530	227	166	40.1	13.5	2.84	2.05
MAX	2.5	42	734	18400	1090	19100	415	724	59	21	4.0	2.8
MIN	.21	1.4	17	22	124	136	115	62	19	5.1	1.7	1.2
AC-FT	60	928	4680	189600	19320	155600	13520	10200	2380	831	174	122

11458000 NAPA RIVER NEAR NAPA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	13.2	85.2	269	697	641	502	184	47.2	14.8	5.16	2.69	2.35
MAX	338	616	1474	3083	4089	2598	1341	226	55.6	19.4	9.43	10.7
(WY)	1963	1974	1984	1995	1986	1983	1982	1983	1967	1983	1983	1982
MIN	.000	1.10	.73	2.17	.42	2.60	.20	.000	.000	.000	.000	.000
(WY)	1961	1991	1977	1991	1977	1977	1977	1977	1977	1961	1960	1960

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1960 - 1995	
ANNUAL TOTAL	15593.17		200327.77			
ANNUAL MEAN	42.7		549		204	
HIGHEST ANNUAL MEAN					585	1983
LOWEST ANNUAL MEAN					.72	1977
HIGHEST DAILY MEAN	1290	Feb 20	19100	Mar 9	26200	Feb 17 1986
LOWEST DAILY MEAN	.00	Aug 14	.21	Oct 3	.00	Jul 14 1960
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 14	.58	Oct 8	.00	Jul 14 1960
INSTANTANEOUS PEAK FLOW			32600	Mar 9	37100	Feb 18 1986
INSTANTANEOUS PEAK STAGE			30.50	Mar 9	30.50	Mar 9 1995
ANNUAL RUNOFF (AC-FT)	30930		397400		147400	
10 PERCENT EXCEEDS	71		1130		408	
50 PERCENT EXCEEDS	16		38		13	
90 PERCENT EXCEEDS	.46		1.5		.50	

11459500 NOVATO CREEK AT NOVATO, CA

LOCATION.--Lat 38°06'28", long 122°34'44", in Novato Grant, Marin County, Hydrologic Unit 18050002, on left bank in Novato, 100 ft upstream from 7th Street Bridge, and 3.9 mi downstream from Novato Creek Dam.

DRAINAGE AREA.--17.6 mi^2.

PERIOD OF RECORD.--October 1946 to current year. Prior to October 1966, published as "near Novato."

GAGE.--Water-stage recorder. Datum of gage is 14.76 ft above sea level. Prior to Aug. 23, 1967, at site 0.6 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft since Oct. 18, 1954; contents, 1,400 acre-ft, Sept. 30, 1994. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 1,647 acre-ft for the current year. No diversion from Russian River into Stafford Lake during the current year.

COOPERATION.--Records of diversions and storage were provided by North Marin Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft^3/s, Jan. 4, 1982, gage height, 14.52 ft; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,830 ft^3/s, Jan. 9, gage height, 10.95 ft; no flow for several days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	1.1	13	129	7.1	27	11	1.4	e1.2	1.0	.83
2	.00	.00	1.1	9.7	105	43	23	4.7	1.3	e1.1	1.0	.56
3	.01	.00	19	65	85	32	20	3.7	1.6	e1.1	1.1	.47
4	12	.00	17	100	70	23	16	3.6	1.6	e1.1	1.3	.48
5	1.2	75	5.3	52	57	25	13	3.4	1.5	e1.1	1.3	.45
6	.23	58	4.1	52	47	20	13	3.3	1.5	e1.0	1.1	.36
7	.15	3.7	3.0	149	43	15	16	3.1	1.5	e1.1	1.0	.40
8	.08	1.8	2.5	470	72	106	13	3.1	e1.5	e1.0	.85	.44
9	.05	13	2.2	508	50	884	11	3.1	e1.4	e1.1	.92	.48
10	.06	3.7	2.2	563	43	591	10	3.0	e1.4	e.97	.86	.53
11	.53	1.9	8.2	341	39	423	7.7	2.9	e1.4	e1.0	.88	.51
12	.18	1.5	10	237	35	255	7.6	4.5	e1.5	e1.2	.87	.57
13	.08	1.2	5.8	255	34	241	9.2	3.1	e1.4	e1.1	.78	.92
14	.02	1.1	13	329	31	223	7.3	2.6	e1.3	e1.0	.73	.74
15	.11	4.9	7.6	263	27	182	9.0	2.1	e1.7	e.95	.67	.49
16	.00	1.5	5.3	196	24	146	8.0	1.9	e7.9	e.97	.97	.42
17	.00	2.4	4.4	141	21	117	7.1	1.8	e3.2	e.88	.70	.39
18	.00	1.2	4.8	109	19	101	6.9	1.7	e1.5	e.96	.62	.39
19	.00	1.0	3.7	85	15	81	6.1	1.6	e1.5	e1.0	.60	.35
20	.03	1.0	3.3	84	13	187	6.8	1.3	e1.4	e1.1	.54	.30
21	.04	.94	3.0	91	12	154	5.5	1.6	e1.4	e1.2	.55	.33
22	.00	.84	2.7	240	11	238	3.5	1.6	e1.4	e1.0	.54	.42
23	.00	.80	2.5	320	10	207	3.5	1.6	e1.3	e.95	.99	.42
24	.00	2.0	17	278	9.5	156	4.9	1.6	e1.4	e.95	.75	.41
25	.02	9.9	4.6	199	8.9	121	3.3	1.6	e1.3	e1.0	.55	.39
26	.01	2.7	3.5	213	8.5	94	3.2	1.6	e1.3	1.1	.57	.40
27	.02	2.3	4.5	328	7.8	73	4.1	1.5	e1.2	1.1	.55	.55
28	.00	1.7	5.6	264	7.4	58	2.9	1.5	e1.3	1.0	.55	.59
29	.00	1.3	3.6	198	---	48	3.8	1.4	e1.2	1.1	.54	.31
30	.00	1.2	3.2	206	---	40	5.2	1.4	e1.2	1.0	.49	.27
31	.00	---	6.1	160	---	32	---	1.3	---	1.0	.84	---
TOTAL	14.82	196.58	179.9	6518.7	1034.1	4923.1	277.6	82.2	50.5	32.33	24.71	14.17
MEAN	.48	6.55	5.80	210	36.9	159	9.25	2.65	1.68	1.04	.80	.47
MAX	12	75	19	563	129	884	27	11	7.9	1.2	1.3	.92
MIN	.00	.00	1.1	9.7	7.4	7.1	2.9	1.3	1.2	.88	.49	.27
AC-FT	29	390	357	12930	2050	9760	551	163	100	64	49	28

e Estimated.

11459500 NOVATO CREEK AT NOVATO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.74	3.27	15.2	47.9	41.4	26.8	9.42	1.43	.72	.62	.37	.29
MAX	9.07	17.2	117	210	239	207	81.3	12.9	7.73	8.61	8.53	5.40
(WY)	1963	1974	1956	1995	1986	1983	1958	1983	1980	1980	1980	1967
MIN	.000	.000	.000	.26	.35	.84	.17	.016	.000	.000	.000	.000
(WY)	1947	1948	1950	1948	1948	1976	1977	1961	1951	1947	1947	1947

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1947 - 1995	
ANNUAL TOTAL	1134.42		13348.71			
ANNUAL MEAN	3.11		36.6		12.2	
HIGHEST ANNUAL MEAN					47.9	1983
LOWEST ANNUAL MEAN					.40	1976
HIGHEST DAILY MEAN	82	Feb 7	884	Mar 9	2850	Jan 4 1982
LOWEST DAILY MEAN	.00	Aug 10	.00	Oct 1	.00	Oct 1 1946
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 13	.00	Oct 28	.00	Oct 1 1946
INSTANTANEOUS PEAK FLOW			1830	Jan 9	5000	Jan 4 1982
INSTANTANEOUS PEAK STAGE			10.95	Jan 9	14.52	Jan 4 1982
ANNUAL RUNOFF (AC-FT)	2250		26480		8850	
10 PERCENT EXCEEDS	5.6		119		21	
50 PERCENT EXCEEDS	.56		1.7		.57	
90 PERCENT EXCEEDS	.00		.34		.00	

11460400 LAGUNITAS CREEK AT SAMUEL P. TAYLOR STATE PARK, CA

LOCATION.--Lat 38°01'37", long 122°44'07", Marin County, Hydrologic Unit 18050005, in Samuel P. Taylor State Park, on left bank 300 ft upstream from Deadman's Gulch, 0.9 mi downstream from park entrance, 2.1 mi northwest of Lagunitas, and 3.4 mi downstream from Kent Lake.

DRAINAGE AREA.--34.3 mi^2.

PERIOD OF RECORD.--December 1982 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 102.89 ft above sea level.

REMARKS.--Records good except for estimated daily discharge, which are fair.. Flow regulated by Kent Lake, capacity, 16,680 acre-ft, and Alpine Lake, capacity, 8,890 acre-ft, both of which divert for domestic and industrial use in Marin County.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,470 ft^3/s, Feb. 18, 1986, gage height, 8.44 ft; minimum daily, 3.8 ft^3/s, Oct. 16-18, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,990 ft^3/s, Jan. 8, gage height, 7.99 ft; minimum daily, 4.4 ft^3/s, Oct. 10-13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	16	19	37	236	15	51	273	14	11	7.2	6.4
2	4.7	16	19	36	163	119	43	285	14	10	7.1	6.3
3	4.6	16	280	115	131	221	37	202	14	10	6.9	6.3
4	4.8	16	235	188	109	209	32	142	14	10	6.9	6.4
5	5.2	109	81	123	90	173	26	102	14	10	6.9	6.4
6	5.1	e414	49	90	74	130	38	80	14	10	6.9	6.3
7	4.8	44	36	239	66	96	140	62	14	10	6.9	6.2
8	4.6	24	28	1150	128	168	152	50	14	9.7	6.7	6.2
9	4.6	e119	26	1120	124	1790	127	48	13	9.6	6.6	6.3
10	4.4	e68	24	715	98	1430	100	45	13	9.6	6.4	6.5
11	4.4	37	28	245	83	933	78	38	12	9.6	6.4	6.3
12	4.4	28	57	367	68	452	65	38	12	9.6	6.5	6.2
13	4.4	23	43	969	e67	809	63	74	12	9.4	6.5	6.2
14	4.5	21	54	1560	e71	1090	52	87	13	10	6.2	6.2
15	4.6	49	53	893	e57	882	48	84	14	9.1	6.3	6.2
16	5.2	41	43	465	e46	457	45	73	14	9.1	6.5	6.3
17	15	33	36	274	e39	270	37	59	13	8.6	6.6	6.2
18	15	28	31	192	e34	201	32	49	12	7.6	6.6	6.2
19	15	25	26	146	e30	157	27	42	12	7.6	6.5	6.0
20	15	22	23	133	e26	385	32	36	12	7.5	6.5	5.9
21	15	21	20	231	e24	371	27	30	12	7.5	6.5	5.9
22	15	20	22	790	e23	507	24	27	12	7.5	6.6	6.0
23	15	20	24	1590	e19	428	21	22	11	7.3	6.5	6.1
24	15	22	64	809	14	330	20	19	11	7.4	6.4	5.9
25	15	77	43	460	13	246	20	18	11	7.7	6.4	5.7
26	16	49	37	520	13	184	21	17	11	7.9	6.4	5.7
27	16	38	30	1380	13	141	24	15	10	7.5	6.3	5.7
28	16	30	29	1260	15	109	26	15	10	7.2	6.3	5.7
29	16	23	24	737	---	93	46	15	11	7.2	6.4	5.7
30	16	20	24	452	---	77	52	14	11	7.1	6.3	5.7
31	16	---	26	323	---	62	---	14	---	7.1	6.3	---
TOTAL	306.3	1469	1534	17609	1874	12535	1506	2075	374	269.4	203.5	183.1
MEAN	9.88	49.0	49.5	568	66.9	404	50.2	66.9	12.5	8.69	6.56	6.10
MAX	16	414	280	1590	236	1790	152	285	14	11	7.2	6.5
MIN	4.4	16	19	36	13	15	20	14	10	7.1	6.2	5.7
AC-FT	608	2910	3040	34930	3720	24860	2990	4120	742	534	404	363

e Estimated.

11460400 LAGUNITAS CREEK AT SAMUEL P. TAYLOR STATE PARK, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7.88	23.6	42.4	101	112	123	21.4	18.2	8.26	6.47	5.53	5.42
MAX	13.4	66.3	173	568	421	503	67.3	66.9	12.5	8.69	7.05	6.53
(WY)	1990	1985	1984	1995	1986	1983	1983	1995	1995	1995	1991	1991
MIN	4.34	4.74	6.84	14.5	11.2	13.6	8.39	7.43	6.30	4.92	4.44	4.29
(WY)	1987	1987	1987	1991	1989	1988	1987	1987	1987	1992	1984	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1983 - 1995	
ANNUAL TOTAL	8074.4		39938.3			
ANNUAL MEAN	22.1		109		34.0	
HIGHEST ANNUAL MEAN					109	1995
LOWEST ANNUAL MEAN					14.7	1987
HIGHEST DAILY MEAN	414	Nov 6	1790	Mar 9	2350	Feb 17 1986
LOWEST DAILY MEAN	4.4	Sep 1	4.4	Oct 10	3.8	Oct 16 1986
ANNUAL SEVEN-DAY MINIMUM	4.5	Oct 8	4.5	Oct 8	4.0	Oct 16 1986
INSTANTANEOUS PEAK FLOW			2990	Jan 8	3470	Feb 18 1986
INSTANTANEOUS PEAK STAGE			7.99	Jan 8	8.44	Feb 18 1986
ANNUAL RUNOFF (AC-FT)	16020		79220		24600	
10 PERCENT EXCEEDS	40		271		60	
50 PERCENT EXCEEDS	15		21		11	
90 PERCENT EXCEEDS	4.6		6.2		4.9	

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA

LOCATION.--Lat 38°04'49", long 122°47'00", in Nicasio (Black) Grant, Marin County, Hydrologic Unit 18050005, on right bank at upstream side of road bridge, 300 ft downstream from small right-bank tributary, 1.4 mi northeast of town of Point Reyes Station, and 2.5 mi downstream from Nicasio Dam.

DRAINAGE AREA.--81.7 mi^2.

PERIOD OF RECORD.--October 1974 to current year.
WATER TEMPERATURE: October 1989 to September 1990.
SEDIMENT DATA: October 1989 to September 1990.

REVISED RECORDS.--WDR CA-79-2: 1975, 1978. WDR CA-82-2: 1975(M), 1978(M), 1980(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 50 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Nicasio Reservoir, capacity, 22,450 acre-ft; Kent Lake, capacity, 16,680 acre-ft; and Alpine Lake, capacity, 8,890 acre-ft, all of which divert water for domestic and industrial use in Marin County.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,100 ft^3/s, Jan. 4, 1982, gage height, 26.96 ft, from rating curve extended above 6,200 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.01 ft^3/s, Sept. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9420 ft^3/s, Jan. 9, gage height, 20.86 ft; minimum daily, 4.8 ft^3/s, several days in October.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	14	21	44	526	49	112	352	17	12	7.0	5.9
2	5.0	14	20	48	366	174	98	381	17	12	7.1	6.0
3	4.8	14	207	176	285	380	85	277	17	12	6.8	5.9
4	5.0	14	459	300	231	337	75	198	16	12	6.7	5.9
5	5.4	52	132	223	194	293	65	145	16	11	6.8	5.8
6	5.4	430	77	151	167	227	77	117	15	e11	6.8	5.8
7	5.1	66	53	392	150	178	209	94	15	e11	6.8	5.7
8	5.1	29	40	4250	339	275	225	78	15	e11	6.4	5.6
9	4.8	96	31	5480	307	5920	186	72	15	e10	6.2	5.9
10	4.8	99	27	3890	222	3620	151	69	15	e10	6.2	6.0
11	4.8	48	25	1300	186	2150	120	58	15	e10	6.2	6.3
12	4.8	33	80	1020	160	1050	103	53	14	e10	6.3	6.0
13	4.9	26	67	2100	160	1470	111	102	14	e9.7	6.2	5.9
14	5.0	22	78	3730	169	2080	89	115	14	e11	6.3	6.0
15	5.0	47	87	1760	139	1720	84	111	17	e10	6.2	5.9
16	5.0	54	66	933	117	853	88	94	17	e9.7	6.3	5.9
17	11	40	53	556	102	539	71	79	16	e9.1	6.1	5.9
18	14	32	45	377	92	431	63	66	15	e8.7	6.1	6.0
19	14	27	37	288	84	347	53	56	14	e8.1	6.1	5.8
20	14	24	30	254	76	1190	59	46	14	e8.1	6.0	5.5
21	14	22	25	462	71	1030	51	38	13	e8.0	6.2	5.6
22	14	20	23	1620	70	1300	44	35	13	e8.0	6.1	5.6
23	14	19	26	3350	62	1130	38	30	13	e7.9	6.1	5.7
24	14	20	69	1820	52	724	34	27	12	7.7	6.1	5.6
25	14	77	59	997	50	509	34	24	12	7.6	6.1	6.2
26	14	62	47	989	48	384	32	21	12	7.5	6.1	6.4
27	14	44	39	2610	47	299	38	21	12	7.3	6.1	5.4
28	14	37	39	2230	48	238	42	19	12	7.3	6.3	5.4
29	14	26	31	1240	---	198	71	19	12	7.3	6.1	5.4
30	14	22	27	938	---	164	75	18	12	7.2	5.8	5.4
31	14	---	31	723	---	133	---	18	---	7.3	5.9	---
TOTAL	286.7	1530	2051	44251	4520	29392	2583	2833	431	289.5	195.5	174.4
MEAN	9.25	51.0	66.2	1427	161	948	86.1	91.4	14.4	9.34	6.31	5.81
MAX	14	430	459	5480	526	5920	225	381	17	12	7.1	6.4
MIN	4.8	14	20	44	47	49	32	18	12	7.2	5.8	5.4
AC-FT	569	3030	4070	87770	8970	58300	5120	5620	855	574	388	346

e Estimated.

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.89	38.1	90.9	259	268	238	60.4	18.6	6.93	5.29	4.45	4.18
MAX	19.2	177	542	1427	1193	1109	531	91.4	14.4	9.34	6.95	6.34
(WY)	1984	1983	1984	1995	1986	1983	1982	1995	1995	1995	1991	1991
MIN	.19	1.35	1.51	2.37	3.52	7.40	1.59	.67	.45	1.77	1.47	1.12
(WY)	1977	1977	1977	1976	1977	1977	1977	1977	1977	1976	1976	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995	
ANNUAL TOTAL	11604.1		88537.1			
ANNUAL MEAN	31.8		243		82.6	
HIGHEST ANNUAL MEAN					269	1983
LOWEST ANNUAL MEAN					2.54	1977
HIGHEST DAILY MEAN	730	Feb 20	5920	Mar 9	10700	Jan 4 1982
LOWEST DAILY MEAN	4.4	Sep 1	4.8	Oct 1	.01	Sep 26 1977
ANNUAL SEVEN-DAY MINIMUM	4.5	Sep 10	4.9	Oct 9	.02	Oct 14 1977
INSTANTANEOUS PEAK FLOW			9420	Jan 9	22100	Jan 4 1982
INSTANTANEOUS PEAK STAGE			20.86	Jan 9	26.96	Jan 4 1982
ANNUAL RUNOFF (AC-FT)	23020		175600		59830	
10 PERCENT EXCEEDS	62		481		131	
50 PERCENT EXCEEDS	15		27		8.5	
90 PERCENT EXCEEDS	4.7		5.9		2.3	

11460750 WALKER CREEK NEAR MARSHALL, CA

LOCATION.--Lat 38°10'33", long 122°49'02", in Soulajule (Vasquez) Grant, Marin County, Hydrologic Unit 18050005, on right bank 0.8 mi downstream from Verde Canyon, 2.8 mi below confluence of Arroyo Sausal and Salmon Creek, and 4.0 mi east of Marshall.

DRAINAGE AREA.--31.1 mi^2.

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 140 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharge. Records good. Flow affected by regulation and diversions and by Soulajule Reservoir on Arroyo Sausal; reservoir capacity, 10,570 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft^3/s, Feb. 17, 1986, gage height, 10.79 ft, from rating curve extended above 1,100 ft^3/s on basis of comparison with discontinued downstream station Walker Creek near Tomales; minimum daily, 0.73 ft^3/s, Nov. 26, 1991.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of Jan. 4, 1982, reached a stage of 15.9 ft, present datum, from floodmarks, discharge, 14,600 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,780 ft^3/s, Mar. 9, gage height, 10.86 ft; minimum daily, 4.5 ft^3/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.9	7.0	35	194	16	38	77	7.5	5.5	4.9	4.9
2	5.1	5.8	6.8	36	133	30	34	55	7.4	5.6	4.9	4.9
3	5.3	5.9	35	103	94	67	29	39	7.3	5.7	5.0	4.9
4	6.5	5.9	51	130	74	50	25	31	7.0	5.6	5.0	4.9
5	6.0	11	24	107	57	41	24	25	6.9	5.5	5.0	4.9
6	5.6	12	19	88	48	33	30	22	6.7	5.2	5.0	4.9
7	5.6	5.8	16	230	42	30	49	20	6.7	5.1	5.0	4.8
8	5.6	5.4	17	2640	95	107	39	18	6.6	4.9	4.9	4.8
9	5.6	10	19	3100	85	3810	30	17	6.3	5.0	4.9	4.9
10	5.7	9.1	18	1650	60	1110	24	17	6.3	5.0	4.9	4.9
11	5.6	6.6	21	558	52	551	20	14	6.2	5.0	4.9	5.0
12	5.6	6.0	36	352	47	357	19	15	6.1	5.0	4.9	4.9
13	5.7	5.4	25	1060	62	490	29	27	6.1	4.9	4.9	5.0
14	5.7	5.2	44	1550	66	570	21	22	6.2	4.8	4.9	5.0
15	5.7	8.7	37	598	50	426	22	19	6.5	4.8	4.8	4.9
16	5.7	7.7	25	271	43	252	25	16	6.5	4.8	4.7	4.8
17	5.9	8.3	20	143	37	169	20	14	6.3	4.9	4.8	4.7
18	5.9	6.8	18	99	34	167	19	12	6.3	4.9	4.8	4.6
19	5.9	6.3	20	76	31	131	16	11	6.1	4.9	4.8	4.6
20	5.9	6.0	22	71	28	433	20	10	6.0	4.8	4.7	4.6
21	5.9	5.8	21	104	26	365	16	10	5.9	4.8	4.8	4.6
22	5.9	5.6	20	416	23	847	13	9.6	5.8	4.8	4.8	4.6
23	5.9	5.5	19	793	21	566	12	9.4	5.8	4.8	4.8	4.6
24	5.9	5.9	28	538	19	302	11	8.8	5.6	4.9	4.8	4.6
25	5.8	13	23	282	18	195	11	8.6	5.6	4.9	4.9	4.6
26	5.8	10	21	288	17	137	10	8.5	5.6	4.9	4.8	4.6
27	5.7	9.3	21	838	16	103	11	8.2	5.6	4.9	4.9	4.6
28	5.8	9.7	25	595	16	81	11	8.0	5.5	4.9	4.9	4.5
29	5.8	8.2	23	304	---	62	14	7.8	5.6	5.0	4.8	4.6
30	5.9	7.5	22	376	---	52	14	7.8	5.5	4.9	4.8	4.6
31	5.9	---	26	294	---	45	---	7.5	---	4.9	4.8	---
TOTAL	177.8	224.3	729.8	17725	1488	11595	656	575.2	187.5	155.6	150.8	142.8
MEAN	5.74	7.48	23.5	572	53.1	374	21.9	18.6	6.25	5.02	4.86	4.76
MAX	6.5	13	51	3100	194	3810	49	77	7.5	5.7	5.0	5.0
MIN	4.9	5.2	6.8	35	16	16	10	7.5	5.5	4.8	4.7	4.5
AC-FT	353	445	1450	35160	2950	23000	1300	1140	372	309	299	283

11460750 WALKER CREEK NEAR MARSHALL, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.71	10.6	33.6	102	91.4	70.4	10.2	6.70	4.95	4.54	4.42	4.53
MAX	6.27	46.3	247	572	588	374	21.9	18.6	7.84	5.80	5.80	5.80
(WY)	1990	1984	1984	1995	1986	1995	1995	1995	1994	1984	1984	1984
MIN	1.35	1.23	1.85	1.71	2.14	10.4	5.52	2.18	1.90	1.42	1.42	1.22
(WY)	1991	1992	1991	1991	1991	1988	1991	1991	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1984 - 1995	
ANNUAL TOTAL	4667.8		33807.8			
ANNUAL MEAN	12.8		92.6		28.8	
HIGHEST ANNUAL MEAN					92.6	1995
LOWEST ANNUAL MEAN					7.41	1991
HIGHEST DAILY MEAN	205	Feb 7	3810	Mar 9	4940	Feb 17 1986
LOWEST DAILY MEAN	2.0	Aug 31	4.5	Sep 28	.73	Nov 26 1991
ANNUAL SEVEN-DAY MINIMUM	4.0	Aug 25	4.6	Sep 22	.78	Nov 23 1991
INSTANTANEOUS PEAK FLOW			6780	Mar 9	7050	Feb 17 1986
INSTANTANEOUS PEAK STAGE			10.86	Mar 9	10.86	Mar 9 1995
ANNUAL RUNOFF (AC-FT)	9260		67060		20830	
10 PERCENT EXCEEDS	22		168		33	
50 PERCENT EXCEEDS	7.9		8.6		5.8	
90 PERCENT EXCEEDS	4.5		4.8		2.4	

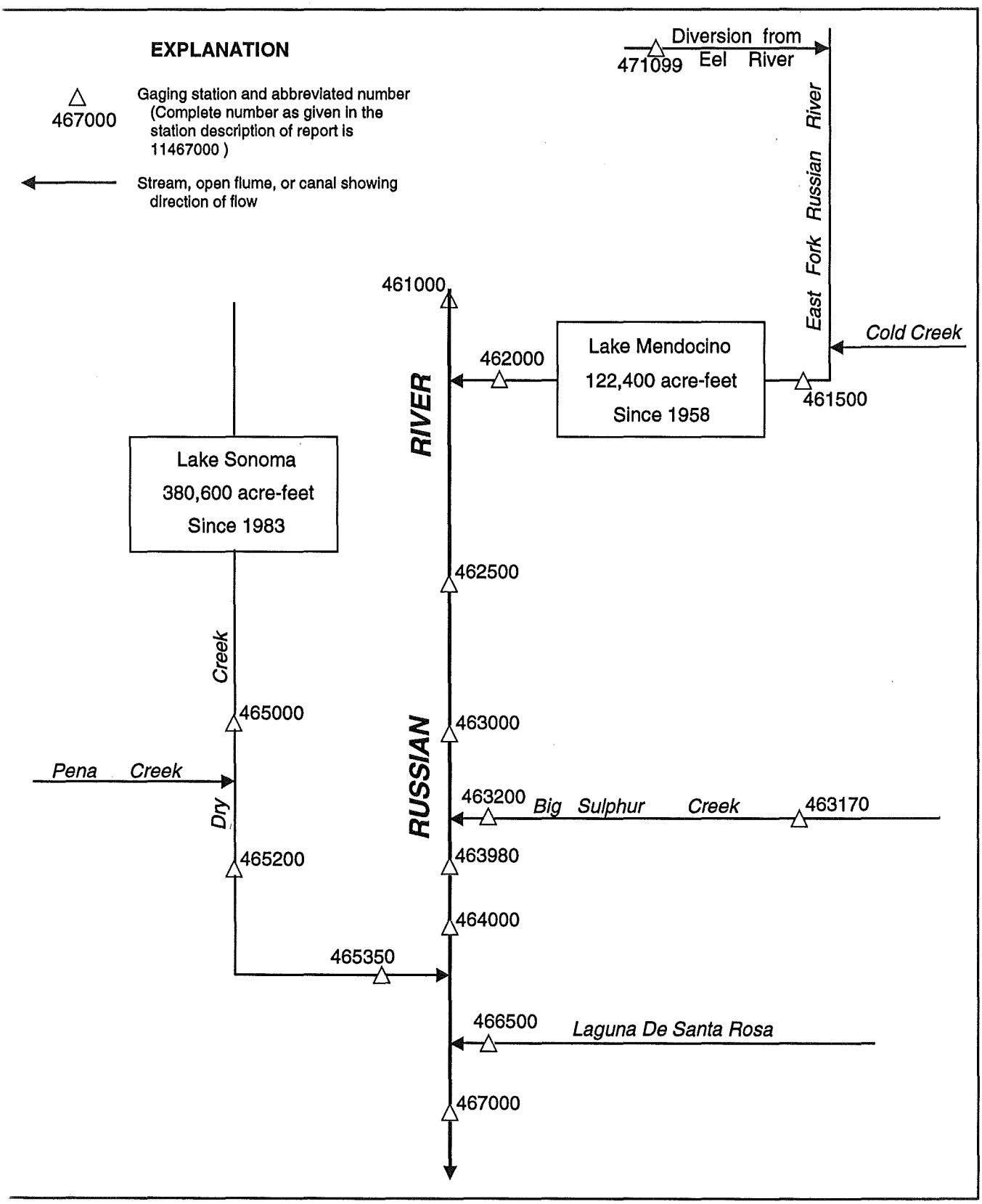


Figure 21. Diversions and storage in Russian River basin.

11461000 RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'44", long 123°11'38", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, on right bank 20 ft upstream from bridge on Lake Mendocino Drive, 0.4 mi upstream from East Fork, 0.6 mi downstream from York Creek, and 3.2 mi north of Ukiah.
DRAINAGE AREA.--100 mi^2.

PERIOD OF RECORD.--August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.
CHEMICAL DATA: Water years 1977-79.
BIOLOGICAL DATA: Water years 1977-79.
WATER TEMPERATURE: Water years 1965-68.
SEDIMENT DATA: Water years 1964-68, 1991-92, October 1994 to current year.
REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 599.22 ft above sea level. Prior to October 1952, nonrecording gage at bridge 20 ft upstream at different datum. Oct. 1, 1952, to Nov. 8, 1971, water-stage recorder at site 0.6 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation. Diversions upstream from station for irrigation of about 1,000 acres. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft^3/s, Dec. 21, 1955, gage height, 19.0 ft, site and datum then in use; maximum gage height, 20.87 ft, Jan. 20, 1993; no flow at times in many years.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 8	2130	e*16,700	*18.66	Mar. 9	0915	10,300	15.26
Jan. 13	1300	11,400	(a)15.95	Mar. 14	1245	6,920	13.00
Jan. 26	1500	4,140	(a)10.75	Mar. 20	0845	4,890	11.37
Jan. 30	0900	6,390	(a)12.60				

Minimum daily, 0.41 ft^3/s, Sept. 25.
(a) observed

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	1.2	16	72	e1390	e45	192	1350	34	13	2.7	1.3
2	.46	1.4	13	64	e836	e53	166	599	33	12	3.0	1.2
3	.51	1.6	513	138	e564	e213	142	383	33	12	2.8	1.3
4	.84	2.5	243	311	e417	e137	121	281	31	12	2.8	1.6
5	.77	6.8	89	1110	e334	e85	111	220	29	11	2.7	2.4
6	.62	3.5	73	828	e281	e77	234	179	27	9.2	2.1	2.2
7	.45	1.8	54	3400	e244	e64	523	147	27	9.1	3.6	1.8
8	.51	1.5	39	e9100	e227	e600	532	118	24	7.2	2.5	.92
9	.47	25	31	e6870	e185	e5440	412	109	22	7.5	3.0	.42
10	.47	12	24	e2590	e147	2650	288	98	22	7.9	2.2	.65
11	.47	4.0	35	e1860	e146	2220	231	90	22	7.8	2.1	.87
12	.50	2.3	169	e2150	e127	1320	213	101	22	8.1	2.0	.79
13	.52	1.8	150	e6820	e152	2760	541	323	20	8.2	1.7	.90
14	.52	1.5	467	e3580	e137	4500	301	191	26	6.6	2.0	.97
15	.45	7.5	308	e1600	e113	1770	284	522	57	5.7	1.6	.76
16	.63	12	370	e884	e100	886	313	284	35	5.5	1.5	1.8
17	.60	17	241	e621	e92	667	238	202	28	6.5	1.9	2.2
18	.58	16	211	e501	e92	1220	204	154	28	5.7	2.1	2.0
19	.61	8.3	139	e687	e78	688	166	121	26	8.2	1.7	1.7
20	.70	7.2	100	e767	e77	2270	172	103	22	8.2	1.2	1.4
21	.73	5.3	77	e441	e70	1350	127	94	20	7.8	1.5	1.3
22	.74	3.6	62	e371	e65	2270	111	88	19	7.7	1.8	1.2
23	.68	3.1	51	e924	e60	1920	99	76	18	7.4	1.7	.93
24	.67	5.0	116	e1600	e59	1320	91	69	16	6.9	1.6	.55
25	.69	136	87	e1210	e53	895	83	63	17	5.9	2.1	.41
26	.72	150	64	e2210	e49	648	76	57	13	4.6	1.9	.51
27	.78	129	59	e1750	e49	495	88	51	12	3.0	2.0	.82
28	.87	117	197	e1900	e49	391	85	47	13	4.0	2.0	.70
29	.99	50	110	e896	---	314	538	44	13	3.4	2.1	1.1
30	1.1	26	84	e4920	---	260	294	40	12	4.2	2.2	1.1
31	1.1	---	71	e1390	---	221	---	37	---	3.9	2.3	---
TOTAL	20.24	759.9	4263	61565	6193	37749	6976	6241	721	230.2	66.4	35.80
MEAN	.65	25.3	138	1986	221	1218	233	201	24.0	7.43	2.14	1.19
MAX	1.1	150	513	9100	1390	5440	541	1350	57	13	3.6	2.4
MIN	.45	1.2	13	64	49	45	76	37	12	3.0	1.2	.41
AC-FT	40	1510	8460	122100	12280	74880	13840	12380	1430	457	132	71

e Estimated.

11461000 RUSSIAN RIVER NEAR UKIAH, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9.13	120	341	554	472	365	157	41.9	10.8	2.20	.53	.55
MAX	147	682	1663	1986	1975	1436	770	201	57.4	10.8	2.52	2.70
(WY)	1963	1974	1965	1995	1958	1983	1963	1995	1993	1983	1983	1983
MIN	.000	.15	1.77	3.82	14.3	20.0	4.33	3.15	.22	.000	.000	.000
(WY)	1953	1953	1960	1991	1977	1988	1977	1977	1977	1977	1977	1970

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1912 - 1995	
ANNUAL TOTAL	23312.62		124820.54			
ANNUAL MEAN	63.9		342		172	
HIGHEST ANNUAL MEAN					420	1983
LOWEST ANNUAL MEAN					5.76	1977
HIGHEST DAILY MEAN	2020	Feb 17	9100	Jan 8	13300	Dec 22 1964
LOWEST DAILY MEAN	.02	Jul 29	.41	Sep 25	.00	Oct 1 1911
ANNUAL SEVEN-DAY MINIMUM	.03	Jul 25	.48	Oct 7	.00	Oct 1 1911
INSTANTANEOUS PEAK FLOW			16700	Jan 8	18900	Dec 21 1955
INSTANTANEOUS PEAK STAGE			18.66	Jan 8	20.87	Jan 20 1993
ANNUAL RUNOFF (AC-FT)	46240		247600		124400	
10 PERCENT EXCEEDS	139		885		402	
50 PERCENT EXCEEDS	12		37		12	
90 PERCENT EXCEEDS	.13		.86		.10	

11461000 RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-68, 1977-79, 1991-92, October 1994 to current year.
CHEMICAL DATA: Water years 1977-79.
BIOLOGICAL DATA: Water years 1977-79.
WATER TEMPERATURE: Water years 1965-68.
SEDIMENT DATA: Water years 1964-68, 1991-92, October 1994 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1964 to September 1968.
SUSPENDED-SEDIMENT DISCHARGE: January 1964 to September 1968.

REMARKS.--Zero-bedload discharge observed at flows less than 39 ft^3/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM
MAR							
09...	1530	3830	12.0	1400	14500	20	23
15...	1210	1670	12.0	620	2800	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
MAR							
09...	32	42	52	67	81	93	100
15...	--	--	--	63	81	96	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)
MAR									
09...	1420	1000	1100	0.250	0	1400	1440	15	4.0
09...	1520	1000	1100	0.250	0	1500	1540	15	4.0
15...	1310	1000	1100	0.250	0	1230	1350	60	2.5
15...	1420	1000	1100	0.250	0	1405	1430	15	2.5

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COMPOSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
MAR									
09...	2	20	20	26.0	4700	12.0	10.9	1220	4
09...	2	20	20	26.0	3940	12.0	19.6	1220	3
15...	2	18	18	23.0	1600	12.0	8.6	462	3
15...	2	18	18	23.0	1540	12.0	11.9	462	2

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 128 MM
MAR									
09...	18	22	28	40	53	72	87	94	100
09...	14	18	26	38	51	76	97	100	--
15...	22	46	58	71	83	94	99	100	--
15...	17	36	51	72	88	97	100	--	--

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA

LOCATION.--Lat 39°14'48", long 123°07'45", in NW 1/4 NW 1/4 sec.18, T.16 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, on left bank 0.1 mi downstream from Cold Creek and 3.9 mi east of Calpella.

DRAINAGE AREA.--92.2 mi^2.

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 787.87 ft above sea level. Prior to May 28, 1957, at site 1.3 mi downstream at different datum. May 28, 1957, to Apr. 5, 1966, at site 0.4 mi downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow greatly affected by diversion from Eel River through Potter Valley Powerplant Intake and Tailrace (stations 11471000, 11471099, respectively). Diversion for irrigation of about 8,000 acres upstream from station. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft^3/s, Dec. 22, 1964, gage height, 20.21 ft, site then in use; maximum gage height, 22.89 ft, Jan. 20, 1993; minimum daily, 1.7 ft^3/s, July 23, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 8	2230	*8,780	*21.28	Jan. 30	1200	3,480	13.93
Jan. 13	1515	6,300	18.03	Mar. 9	0945	8,350	20.71
Jan. 26	1445	4,320	15.20	Mar. 20	0815	5,370	16.75

Minimum daily, 38 ft^3/s, Nov. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	101	47	78	944	172	258	1010	134	98	86	54
2	76	100	109	121	610	186	243	385	127	94	95	73
3	75	100	727	206	470	288	231	319	127	102	91	67
4	73	106	315	432	398	220	215	291	125	72	88	87
5	81	132	192	781	357	179	168	273	110	62	85	97
6	74	110	165	632	321	106	224	260	114	79	79	89
7	78	103	136	2810	303	131	391	250	112	79	73	96
8	82	103	93	6700	291	576	528	241	109	56	79	93
9	83	191	86	4640	271	4770	383	231	118	80	85	80
10	78	153	76	e3500	255	2750	325	206	104	79	87	90
11	69	124	112	e2390	252	2200	301	196	109	89	92	91
12	63	113	206	1550	242	963	298	210	109	89	89	85
13	71	110	176	4000	261	2270	523	251	90	106	82	90
14	87	111	e430	1990	238	3340	320	225	92	97	88	88
15	93	e120	e530	960	191	1160	311	391	131	91	82	76
16	96	e140	251	560	146	625	345	270	115	89	86	73
17	95	e180	190	363	127	437	279	240	117	91	88	84
18	94	e140	201	275	142	812	244	226	125	96	80	93
19	89	e122	151	230	194	472	260	209	115	99	76	86
20	91	e120	131	211	193	2180	264	183	103	88	81	90
21	83	e120	118	261	182	1030	229	128	101	95	82	89
22	85	e120	108	622	184	2170	230	149	85	93	86	86
23	81	e121	103	1050	197	1730	227	171	67	83	87	84
24	82	e135	243	e1490	193	985	213	168	67	102	87	80
25	82	e218	150	e1600	190	651	211	176	83	103	83	107
26	90	262	101	e1820	188	494	205	162	87	94	72	109
27	95	202	69	990	185	416	212	156	81	86	79	97
28	97	137	161	985	178	361	214	152	85	82	88	84
29	87	46	76	e800	---	318	363	149	89	81	53	102
30	96	38	59	e1280	---	284	267	143	97	92	48	98
31	98	---	53	891	---	269	---	132	---	96	44	---
TOTAL	2593	3878	5565	44218	7703	32545	8482	7553	3128	2743	2501	2618
MEAN	83.6	129	180	1426	275	1050	283	244	104	88.5	80.7	87.3
MAX	98	262	727	6700	944	4770	528	1010	134	106	95	109
MIN	63	38	47	78	127	106	168	128	67	56	44	54
AC-FT	5140	7690	11040	87710	15280	64550	16820	14980	6200	5440	4960	5190

e Estimated.

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	231	290	470	624	598	522	347	231	160	139	140	189
MAX	352	738	1476	1720	1755	1611	847	422	329	275	276	298
(WY)	1963	1982	1965	1970	1958	1983	1982	1983	1993	1967	1952	1967
MIN	4.89	74.0	30.2	42.2	21.5	42.7	11.9	23.5	15.3	8.25	19.0	23.9
(WY)	1960	1978	1960	1991	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1942 - 1995	
ANNUAL TOTAL	53641		123527			
ANNUAL MEAN	147		338		327	
HIGHEST ANNUAL MEAN					586	1983
LOWEST ANNUAL MEAN					76.8	1977
HIGHEST DAILY MEAN	1630	Feb 17	6700	Jan 8	12500	Dec 22 1964
LOWEST DAILY MEAN	30	Aug 31	38	Nov 30	1.7	Jul 23 1990
ANNUAL SEVEN-DAY MINIMUM	44	Aug 31	61	Aug 29	3.2	Jul 11 1977
INSTANTANEOUS PEAK FLOW			8780	Jan 8	18700	Dec 22 1964
INSTANTANEOUS PEAK STAGE			21.28	Jan 8	22.89	Jan 20 1993
ANNUAL RUNOFF (AC-FT)	106400		245000		237000	
10 PERCENT EXCEEDS	314		640		544	
50 PERCENT EXCEEDS	103		124		253	
90 PERCENT EXCEEDS	49		79		77	

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'51", long 123°11'11", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft downstream from Coyote Dam, 1,300 ft upstream from mouth, and 3.2 mi northeast of Ukiah.

DRAINAGE AREA.--105 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to September 1913, October 1951 to June 1956, October 1957 to current year.
CHEMICAL DATA: Water years 1953-55, 1973-82.
BIOLOGICAL DATA: Water years 1977-78.
WATER TEMPERATURE: Water years 1953-55, 1965-68, 1973-1994.
SEDIMENT DATA: Water years 1953-55, 1964-68.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 614.41 ft above sea level. Prior to October 1951, nonrecording gage at site 0.5 mi upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow affected by diversion from Eel River through Potter Valley Powerplant Intake (station 11471000) and since November 1958 by storage in Lake Mendocino, capacity, 122,400 acre-ft, 500 ft upstream. Diversions upstream from station for irrigation of about 8,000 acres and about 10 ft^3/s at times, through a fish taking station which bypasses the gage. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Prior to regulation by Lake Mendocino, maximum discharge, 13,300 ft^3/s, Dec. 21, 1955, gage height, 16.86 ft, site and datum then in use, from rating curve extended above 6,300 ft^3/s on basis of maximum flow at station upstream which was defined to 8,600 ft^3/s; no flow Aug. 13-15, 1913. Maximum discharge (water years 1959-94), 7,350 ft^3/s, Jan. 24, 1970, gage height, 10.84 ft; minimum daily, 0.02 ft^3/s, Apr. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,880 ft^3/s, Jan. 19, gage height, 9.09 ft; minimum daily, 22 ft^3/s, Jan. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	113	70	81	2070	108	372	189	137	191	238	271
2	153	113	70	95	863	107	363	623	137	191	242	271
3	153	113	70	93	497	108	350	878	153	191	238	271
4	139	112	70	72	373	107	340	871	163	191	235	268
5	123	94	70	36	252	105	260	453	157	191	238	227
6	119	80	70	22	255	105	208	184	153	197	238	206
7	119	80	68	23	254	105	240	184	153	206	235	225
8	119	86	68	27	255	105	301	184	139	206	234	223
9	119	82	68	27	255	109	637	184	153	206	239	232
10	137	75	68	23	275	109	713	184	153	206	244	232
11	159	75	68	23	283	109	375	185	153	206	246	230
12	137	75	68	23	260	831	268	188	153	206	246	230
13	113	75	68	24	278	567	722	188	162	206	246	222
14	113	79	68	23	289	27	525	188	167	215	246	234
15	113	83	66	23	229	27	233	190	143	222	246	225
16	113	82	66	1100	177	1870	228	191	134	222	244	218
17	113	80	66	2990	158	3300	219	191	143	220	242	222
18	113	80	66	2870	117	3360	213	191	145	218	242	219
19	113	80	50	4780	116	2710	208	193	143	218	242	218
20	121	80	62	5330	115	859	192	195	160	218	243	208
21	132	80	62	2620	113	645	184	195	174	218	246	215
22	137	80	61	693	113	172	184	198	178	218	246	234
23	137	80	57	416	113	1430	186	187	191	218	244	237
24	127	80	51	409	130	2370	188	184	191	218	265	239
25	119	80	51	793	159	2330	188	197	191	216	280	222
26	125	80	52	830	156	1190	191	216	191	218	277	218
27	131	80	53	1070	133	621	191	222	191	228	276	216
28	131	80	53	971	107	728	191	223	191	246	276	220
29	131	35	53	839	---	512	191	225	191	246	276	234
30	132	72	53	287	---	391	191	179	191	246	275	234
31	120	---	53	1390	---	382	---	137	---	239	273	---
OTAL	3964	2484	1939	28003	8395	25499	8852	7997	4881	6638	7758	6921
EAN	128	82.8	62.5	903	300	823	295	258	163	214	250	231
AX	159	113	70	5330	2070	3360	722	878	191	246	280	271
IN	113	35	50	22	107	27	184	137	134	191	234	206
C-FT	7860	4930	3850	55540	16650	50580	17560	15860	9680	13170	15390	13730

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1958, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	200	271	576	871	649	461	399	309	213	162	166	161
MAX	316	437	1138	1289	1784	709	775	367	307	260	272	266
(WY)	1958	1913	1956	1956	1958	1958	1958	1912	1953	1953	1953	1954
MIN	20.0	21.0	40.0	258	105	182	214	226	102	65.0	23.8	2.03
(WY)	1912	1912	1912	1912	1913	1913	1955	1913	1913	1912	1913	1913

SUMMARY STATISTICS	WATER YEARS 1911 - 1958	
ANNUAL MEAN	356	
HIGHEST ANNUAL MEAN	526	1958
LOWEST ANNUAL MEAN	183	1912
HIGHEST DAILY MEAN	7300	Dec 22 1955
LOWEST DAILY MEAN	.00	Aug 13 1913
ANNUAL SEVEN-DAY MINIMUM	1.4	Aug 13 1913
INSTANTANEOUS PEAK FLOW	13300	Dec 21 1955
INSTANTANEOUS PEAK STAGE	16.86	Dec 21 1955
ANNUAL RUNOFF (AC-FT)	257700	
10 PERCENT EXCEEDS	647	
50 PERCENT EXCEEDS	286	
90 PERCENT EXCEEDS	63	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	225	248	372	611	587	458	308	216	217	250	259	240
MAX	419	635	1175	1905	1934	1780	1026	419	339	336	388	416
(WY)	1994	1984	1965	1970	1986	1983	1982	1983	1993	1961	1961	1974
MIN	42.3	13.4	6.97	20.7	17.9	13.3	52.6	76.3	104	179	163	92.7
(WY)	1978	1978	1978	1977	1977	1977	1977	1968	1988	1988	1988	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1960 - 1995	
ANNUAL TOTAL	58363		113331			
ANNUAL MEAN	160		310		332	
HIGHEST ANNUAL MEAN					598	1983
LOWEST ANNUAL MEAN					103	1977
HIGHEST DAILY MEAN	1020	Feb 19	5330	Jan 20	6620	Jan 25 1970
LOWEST DAILY MEAN	35	Nov 29	22	Jan 6	.02	Apr 17 1973
ANNUAL SEVEN-DAY MINIMUM	52	Apr 26	24	Jan 9	.14	Jan 2 1971
INSTANTANEOUS PEAK FLOW			5880	Jan 19	7350	Jan 24 1970
INSTANTANEOUS PEAK STAGE			9.09	Jan 19	10.84	Jan 24 1970
ANNUAL RUNOFF (AC-FT)	115800		224800		240300	
10 PERCENT EXCEEDS	246		517		516	
50 PERCENT EXCEEDS	143		191		229	
90 PERCENT EXCEEDS	68		68		62	

11462500 RUSSIAN RIVER NEAR HOPLAND, CA

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, Hydrologic Unit 18010110, on right bank at abandoned highway bridge, 0.2 mi downstream from McNab Creek, 4 mi north of Hopland, and 15.2 mi downstream from Coyote Valley Dam on the East Fork Russian River.

DRAINAGE AREA.--362 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.
CHEMICAL DATA: Water years 1951-66.
WATER TEMPERATURE: Water years 1965-79.
SEDIMENT DATA: Water years 1989-93, 1995.

REVISED RECORDS.--WSP 1041: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 497.61 ft above sea level. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 11,800 acres upstream from station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino, capacity, 129,600 acre-feet, 15.2 mi upstream. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft^3/s, Dec. 22, 1955, gage height, 27.00 ft; minimum daily, 9.1 ft^3/s, Apr. 20, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.0 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,600 ft^3/s, Jan 9, gage height, 22.40 ft; minimum daily, 83 ft^3/s, Nov. 8, 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	111	129	221	5620	303	841	2240	260	197	206	242
2	139	108	122	244	3680	328	783	1550	250	190	217	242
3	137	107	584	431	2380	483	727	1660	249	196	218	242
4	135	108	560	718	1860	447	681	1520	260	194	220	247
5	125	120	270	1790	1320	378	614	1140	255	194	221	227
6	115	95	219	1390	1160	336	695	647	238	189	219	185
7	112	86	192	6650	1040	319	1090	582	228	204	221	183
8	108	83	166	14900	964	882	1210	535	211	199	215	183
9	109	144	152	21100	877	13200	1360	507	213	200	215	187
10	111	116	143	8050	821	7740	1420	488	217	207	221	198
11	143	95	141	5430	805	6920	959	463	213	208	219	206
12	146	88	243	5430	709	5010	759	465	211	204	219	203
13	112	84	310	9540	741	6360	1650	711	207	200	216	198
14	104	83	441	8780	725	9650	1340	569	222	200	219	208
15	92	104	580	4800	630	5520	835	968	232	209	221	208
16	101	105	478	4030	521	4410	905	726	202	205	221	191
17	104	104	453	4960	489	5330	781	619	202	214	214	193
18	100	110	379	5220	430	5800	731	560	199	206	216	196
19	100	103	306	5160	405	4860	671	517	199	204	216	190
20	108	101	259	6130	392	6040	662	482	195	208	216	191
21	116	100	227	4480	378	4250	576	457	213	209	218	190
22	119	95	201	2830	366	5520	543	448	199	203	218	179
23	125	93	182	3700	352	5790	514	414	208	203	210	195
24	127	96	259	5320	346	6150	489	397	202	209	216	192
25	113	212	258	4240	366	5150	466	389	206	200	235	196
26	106	312	205	5130	359	3490	453	388	211	200	231	199
27	119	215	188	5160	346	1770	481	383	206	192	233	185
28	120	265	386	5030	309	1630	458	375	205	211	238	182
29	120	162	290	4050	---	1310	839	367	205	219	232	183
30	118	124	240	6140	---	1020	688	340	202	221	239	192
31	123	---	216	4690	---	911	---	275	---	223	242	---
OTAL	3638	3729	8779	165744	28391	121307	24221	21182	6520	6318	6862	6013
EAN	117	124	283	5347	1014	3913	807	683	217	204	221	200
AX	146	312	584	21100	5620	13200	1650	2240	260	223	242	247
IN	92	83	122	221	309	303	453	275	195	189	206	179
C-FT	7220	7400	17410	328800	56310	240600	48040	42010	12930	12530	13610	11930

11462500 RUSSIAN RIVER NEAR HOPLAND, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	231	434	1143	1786	1703	1287	710	322	213	197	206	207
MAX	555	1656	4849	5856	6799	5361	2572	820	452	326	369	383
(WY)	1958	1984	1965	1970	1958	1983	1982	1983	1993	1961	1961	1974
MIN	35.1	96.5	87.6	37.2	28.7	57.1	44.1	77.0	59.6	79.7	105	78.9
(WY)	1978	1978	1991	1977	1977	1977	1977	1977	1949	1948	1950	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	98914		402704			
ANNUAL MEAN	271		1103		699	
HIGHEST ANNUAL MEAN					1587	1983
LOWEST ANNUAL MEAN					94.0	1977
HIGHEST DAILY MEAN	3330	Feb 17	21100	Jan 9	33800	Dec 22 1955
LOWEST DAILY MEAN	82	Jun 2	83	Nov 8	9.1	Apr 20 1977
ANNUAL SEVEN-DAY MINIMUM	88	May 31	95	Nov 11	13	Apr 15 1977
INSTANTANEOUS PEAK FLOW			27600	Jan 9	45000	Dec 22 1955
INSTANTANEOUS PEAK STAGE			22.40	Jan 9	27.00	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	196200		798800		506500	
10 PERCENT EXCEEDS	441		4440		1520	
50 PERCENT EXCEEDS	160		235		253	
90 PERCENT EXCEEDS	101		116		135	

11462500 RUSSIAN RIVER NEAR HOPLAND, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to March 1979, 1989-93, October 1994 to current year.
CHEMICAL DATA: Water years 1951-66.
WATER TEMPERATURE: Water years 1965-79.
SEDIMENT DATA: Water years 1989-93, October 1994 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: September 1965 to March 1979.
REMARKS.--Zero bedload discharge observed at flows less than 160 ft3/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN								
24...	1430	5530	10.0	517	7720	--	--	--
MAR								
10...	1515	9940	12.0	2010	53900	31	34	38

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
JAN							
24...	--	--	78	86	94	99	100
MAR							
10...	49	64	76	91	98	100	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)
JAN									
24...	1310	1000	1100	0.250	0	1250	1345	30	6.0
24...	1520	1000	1100	0.250	0	1500	1545	30	6.0
MAR									
10...	1315	1000	1100	0.250	0	1300	1330	10	6.0

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COMPOSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN									
24...	2	20	20	22.0	5620	10.0	3.92	699	--
24...	2	20	20	22.0	5410	10.0	7.73	699	--
MAR									
10...	1	21	21	23.0	8880	12.0	4.47	563	1

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
JAN									
24...	2	28	44	52	66	81	92	99	100
24...	1	12	23	31	48	70	90	100	--
MAR									
10...	4	10	12	16	23	36	56	91	100

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA

LOCATION.--Lat 38°52'46", long 123°03'09", in NW 1/4 NW 1/4 sec.23, T.12 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, on left bank 0.3 mi downstream from Cummisky Creek, 5.5 mi northwest of Cloverdale, and 28 mi downstream from Coyote Dam.

DRAINAGE AREA.--503 mi^2.

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 350 ft above sea level, from topographic map. Prior to July 30, 1970, at site 0.2 mi upstream at different datum.

REMARKS.--Records good. Diversions for irrigation of about 15,000 acres upstream from station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft^3/s, Dec. 22, 1964, gage height, 31.60 ft, site and datum then in use; minimum daily, 12 ft^3/s, Apr. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,400 ft^3/s, Jan. 9, gage height, 23.34 ft; minimum daily, 87 ft^3/s, Oct. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	112	152	283	7280	398	1240	3660	355	233	204	244
2	120	110	144	312	5050	516	1130	2420	338	224	214	242
3	125	109	610	908	3020	697	1050	1990	330	227	214	243
4	127	109	938	1410	2460	669	979	1770	329	223	217	247
5	125	122	383	2640	1870	563	916	1540	325	220	224	248
6	117	116	280	2660	1570	502	1020	1000	317	209	226	199
7	108	101	245	13000	1410	463	1660	873	301	220	231	186
8	103	94	210	26000	1300	2050	1680	795	293	214	222	181
9	93	187	188	34700	1180	28100	1680	747	277	212	222	182
10	100	157	174	16400	1080	e17500	1750	715	281	220	229	190
11	112	114	169	e11000	1060	14800	1370	669	278	227	223	200
12	135	102	279	e10500	940	7940	1070	651	274	227	223	197
13	122	96	370	14800	939	10500	1770	918	263	216	222	193
14	106	93	535	16300	946	16400	1840	790	272	214	226	187
15	95	111	874	7360	844	12300	1170	1160	297	222	228	195
16	95	122	518	4870	721	6310	1240	975	279	215	226	179
17	101	112	575	5330	678	6610	1080	831	264	221	218	175
18	94	112	439	5830	616	7000	1010	753	261	218	217	190
19	87	110	390	5200	569	6220	930	692	257	208	217	185
20	91	105	310	6630	540	10100	911	647	250	220	209	179
21	107	103	278	5460	521	9860	814	609	257	216	213	176
22	109	102	250	4160	500	9200	773	595	249	206	211	187
23	115	100	227	6070	477	8470	730	558	248	206	200	191
24	121	101	299	8260	457	8620	693	528	246	216	194	187
25	117	209	337	6200	470	6810	661	507	231	214	231	196
26	101	332	264	6950	463	5040	631	502	237	212	235	180
27	111	248	250	7650	453	2640	665	491	237	197	232	175
28	118	263	477	7160	416	2340	657	477	227	204	243	177
29	114	217	392	5510	---	1960	1340	464	233	212	239	181
30	117	150	315	8270	---	1550	1120	451	230	228	242	180
31	120	---	279	6220	---	1350	---	384	---	229	245	---
TOTAL	3417	4119	11151	258043	37830	207478	33580	29162	8236	6730	6897	5872
MEAN	110	137	360	8324	1351	6693	1119	941	275	217	222	196
MAX	135	332	938	34700	7280	28100	1840	3660	355	233	245	248
MIN	87	93	144	283	416	398	631	384	227	197	194	175
AC-FT	6780	8170	22120	511800	75040	411500	66610	57840	16340	13350	13680	11650

e Estimated.

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	250	596	1554	2635	2404	1837	913	381	234	212	220	215
MAX	659	2636	6398	8324	9387	7015	3708	1156	539	312	359	385
(WY)	1963	1984	1965	1995	1958	1983	1982	1983	1993	1961	1961	1974
MIN	34.5	114	97.8	53.7	44.5	97.2	47.3	80.7	99.9	117	118	72.5
(WY)	1978	1992	1991	1977	1977	1977	1977	1977	1988	1988	1988	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	127340		612515			
ANNUAL MEAN	349		1678		949	
HIGHEST ANNUAL MEAN					2144	1983
LOWEST ANNUAL MEAN					99.2	1977
HIGHEST DAILY MEAN	5070	Feb 18	34700	Jan 9	42800	Dec 22 1964
LOWEST DAILY MEAN	87	Oct 19	87	Oct 19	12	Apr 22 1977
ANNUAL SEVEN-DAY MINIMUM	96	Oct 14	96	Oct 14	16	Apr 16 1977
INSTANTANEOUS PEAK FLOW			39400	Jan 9	55200	Dec 22 1964
INSTANTANEOUS PEAK STAGE			23.34	Jan 9	31.60	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	252600		1215000		687400	
10 PERCENT EXCEEDS	550		5930		2230	
50 PERCENT EXCEEDS	152		278		264	
90 PERCENT EXCEEDS	109		114		152	

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA--continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1964 to 1968, October 1994 to September 1995.
WATER TEMPERATURE: Water years 1964 to 1969.
SEDIMENT DATA: Water years 1964 to 1968, October 1994 to September 1995.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: November 1963 to May 1969.
SEDIMENT DATA: November 1963 to September 1966, January 1967 to September 1968.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
JAN										
04...	1440	1580	8.5	110	469	90	--	--	--	--
MAR										
16...	1415	4520	14.0	332	4050	68	82	93	98	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)
JAN									
04...	1350	1000	1100	0.250	0	1330	1410	60	5.0
MAR									
16...	1500	1000	1100	0.250	0	1430	1530	15	10.0

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COMPOSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN									
04...	1	23	23	2.5	1510	8.5	0.17	20	4
MAR									
16...	1	19	19	1.5	4960	14.0	7.0	1340	2

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
JAN								
04...	20	31	38	55	82	98	100	--
MAR								
16...	15	30	43	56	65	74	94	100

11463170 BIG SULPHUR CREEK AT GEYSERS RESORT, NEAR CLOVERDALE, CA

LOCATION.--Lat 38°47'52", long 122°48'05", in NW 1/4 NW 1/4 sec.19, T.11 N., R.8 W., Sonoma County, Hydrologic Unit 18010110, on left bank 400 ft downstream from unnamed tributary and 12 mi east of Cloverdale.

DRAINAGE AREA.--13.1 mi^2.

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,430 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversion for industrial use 150 ft upstream from station when flows are above 10 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,550 ft^3/s, Jan. 8, 1995, gage height, 9.63 ft, from rating curve extended above 1,200 ft^3/s on basis of culvert computation of peak flow; minimum daily, 0.08 ft^3/s, Aug. 31, 1983. See schematic diagram of Russian River basin.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 8	2300	*7,550	*9.63	Mar. 15	0330	1,470	6.55
Jan. 13	1915	4,650	8.52	Mar. 22	1430	1,050	6.10
Mar. 9	0745	7,190	9.51	May 1	0345	1,550	6.63

Minimum daily, 0.81 ft^3/s, Oct. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	1.2	8.0	15	115	13	37	586	9.3	7.6	2.7	1.6
2	.82	1.2	7.2	15	84	27	31	183	9.0	7.3	2.6	1.6
3	.82	1.5	212	70	63	34	31	99	9.0	7.6	2.6	1.6
4	1.5	1.8	79	288	50	14	31	69	9.0	7.3	2.6	1.6
5	2.0	13	16	185	38	16	31	51	9.0	7.0	2.8	1.6
6	.95	12	15	160	32	16	233	39	9.0	6.9	2.7	1.6
7	.82	3.8	15	1210	26	17	332	30	9.1	6.8	2.7	1.5
8	1.4	3.0	15	3750	22	271	168	31	7.5	6.6	2.7	1.6
9	1.0	78	14	3130	17	3370	102	36	5.6	6.4	2.6	1.6
10	.91	12	13	1450	15	1200	76	25	5.6	6.4	2.6	1.6
11	.81	5.8	16	1210	14	945	52	15	5.6	6.2	2.5	1.6
12	.89	4.0	16	926	15	441	50	19	5.6	6.0	2.5	1.6
13	1.0	3.1	15	1940	17	352	65	48	5.7	5.9	2.4	1.6
14	1.0	2.4	76	1230	16	689	41	23	8.4	5.3	2.3	1.6
15	1.0	9.9	37	515	14	801	37	20	14	4.9	2.3	1.6
16	1.0	8.8	15	259	13	300	34	14	5.7	4.6	2.3	1.6
17	1.1	5.6	14	151	13	170	26	14	5.3	4.5	2.4	1.5
18	1.2	4.6	14	104	13	115	22	15	5.4	4.5	2.3	1.5
19	1.2	4.0	14	75	13	83	17	14	5.3	4.3	2.3	1.4
20	1.4	3.6	15	65	13	252	16	14	5.3	4.3	2.1	1.4
21	1.5	3.1	14	81	14	246	14	14	5.4	4.2	2.0	1.4
22	1.5	2.7	14	355	13	464	14	13	5.6	4.2	2.0	1.5
23	1.2	2.6	14	423	13	409	15	13	5.5	4.0	2.0	1.5
24	1.2	5.6	21	374	13	237	14	14	5.4	3.9	1.9	1.5
25	1.2	49	15	227	13	166	14	14	5.4	3.8	1.8	1.7
26	1.2	13	15	345	13	132	14	14	6.0	3.6	1.8	1.6
27	1.2	13	17	297	13	97	17	12	5.6	3.3	1.8	1.5
28	1.2	13	15	316	13	73	44	12	5.5	3.2	1.8	1.5
29	1.2	13	14	227	---	59	274	12	6.2	3.2	1.7	1.5
30	1.2	10	15	252	---	48	119	11	5.4	3.0	1.7	1.4
31	1.2	---	15	168	---	40	---	11	---	2.8	1.7	---
TOTAL	35.44	304.3	795.2	19813	708	11097	1971	1485	204.4	159.6	70.2	46.4
MEAN	1.14	10.1	25.7	639	25.3	358	65.7	47.9	6.81	5.15	2.26	1.55
MAX	2.0	78	212	3750	115	3370	332	586	14	7.6	2.8	1.7
MIN	.81	1.2	7.2	15	13	13	14	11	5.3	2.8	1.7	1.4
AC-FT	70	604	1580	39300	1400	22010	3910	2950	405	317	139	92

11463170 BIG SULPHUR CREEK AT GEYSERS RESORT, NEAR CLOVERDALE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.71	29.5	70.6	113	106	117	32.5	17.5	5.87	2.59	1.33	1.32
MAX	20.9	146	243	639	571	358	162	81.6	17.1	5.75	2.64	2.90
(WY)	1990	1984	1984	1995	1986	1995	1982	1990	1990	1993	1993	1985
MIN	.74	1.22	1.81	2.52	7.34	8.57	8.44	4.79	2.62	.86	.70	.65
(WY)	1989	1981	1991	1991	1989	1988	1990	1986	1987	1984	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1981 - 1995	
ANNUAL TOTAL	4736.89		36689.54			
ANNUAL MEAN	13.0		101		41.6	
HIGHEST ANNUAL MEAN					101	1995
LOWEST ANNUAL MEAN					15.5	1994
HIGHEST DAILY MEAN	241	Feb 17	3750	Jan 8	3920	Feb 17 1986
LOWEST DAILY MEAN	.70	Aug 26	.81	Oct 11	.08	Aug 31 1983
ANNUAL SEVEN-DAY MINIMUM	.77	Aug 24	.94	Oct 9	.24	Oct 13 1983
INSTANTANEOUS PEAK FLOW			7550	Jan 8	7550	Jan 8 1995
INSTANTANEOUS PEAK STAGE			9.63	Jan 8	9.63	Jan 8 1995
ANNUAL RUNOFF (AC-FT)	9400		72770		30110	
10 PERCENT EXCEEDS	17		229		84	
50 PERCENT EXCEEDS	5.2		13		5.8	
90 PERCENT EXCEEDS	.82		1.5		.95	

11463200 BIG SULPHUR CREEK NEAR CLOVERDALE, CA

LOCATION.--Lat 38°49'34", long 122°59'45", in Rincon de Masalacon Grant, Sonoma County, Hydrologic Unit 18010110, on right bank 900 ft downstream from unnamed tributary, 1.0 mi upstream of Russian River and 1.8 mi northeast of Cloverdale.

DRAINAGE AREA.--85.5 mi^2.

PERIOD OF RECORD.--July 1957 to September 1972. October 1989 to current year (since October 1989, low flow only).

REVISED RECORDS.--WSP 1929: 1958-60.

GAGE.--Water-stage recorder. Elevation of gage is 350 ft above sea level, from topographic map. Prior to September 1972, at site 0.8 mi upstream at different datum.

REMARKS.--Records good except for estimated discharges, which are poor. Diversions for irrigation and geothermal recharge upstream from station. No flow computed above 200 ft^3/s. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (water years 1958-72), 15,700 ft^3/s, Dec. 22, 1964, gage height, 15.08 ft, site and datum then in use, from rating curve extended above 5,700 ft^3/s on basis of slope-area measurement at gage height 16.8 ft; minimum daily, 0.90 ft^3/s, Aug. 17, 1994.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 16.8 ft from floodmarks, site and datum then in use, discharge, 20,000 ft^3/s, by slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.9	25	66	---	e92	---	---	e74	e42	e14	e6.0
2	2.2	2.9	22	71	---	e104	---	---	e71	e41	e14	e6.4
3	2.2	3.0	---	---	---	e133	---	---	e68	e42	e13	e7.2
4	2.6	3.2	---	---	---	e107	---	---	e65	e41	e14	e7.7
5	3.6	18	118	---	---	e104	---	---	e62	e40	e16	e7.7
6	4.5	35	82	---	---	e98	---	---	e59	e38	e15	e7.3
7	3.6	19	64	---	---	e94	---	e198	e56	e38	e15	e7.3
8	3.0	11	54	---	---	---	---	e183	e52	e37	e15	e7.2
9	3.0	151	47	---	---	---	---	e174	e45	e36	e14	e7.6
10	3.3	76	42	---	e184	---	---	e164	e45	e34	e14	e7.4
11	2.9	26	43	---	e174	---	---	e157	e45	e34	e14	e7.3
12	2.4	16	97	---	---	---	---	e157	e43	e32	e14	e7.0
13	2.4	13	96	---	---	---	---	e179	e44	e31	e13	e6.8
14	2.5	11	---	---	e177	---	---	e156	e52	e28	e12	e6.7
15	2.4	29	---	---	e163	---	---	e182	e74	e27	e11	e6.6
16	2.4	45	114	---	e154	---	---	e163	e43	e26	e12	e6.5
17	2.5	21	85	---	e139	---	---	e150	e39	e25	e13	e6.4
18	2.4	16	77	---	e128	---	---	e141	e40	e25	e12	e6.1
19	2.4	13	66	---	e121	---	---	e133	e39	e24	e12	e5.7
20	2.4	12	58	---	e117	---	---	e126	e39	e24	e10	e5.7
21	2.6	11	52	---	e113	---	e200	e119	e40	e23	e9.6	e5.7
22	2.6	10	48	---	e107	---	e188	e114	e39	e23	e9.5	e5.7
23	2.5	9.5	45	---	e105	---	e183	e108	e39	e23	e9.5	e5.7
24	2.5	9.5	93	---	e103	---	e177	e104	e39	e21	e8.6	e5.7
25	2.5	147	76	---	e100	---	e172	e100	e39	e20	e7.5	e8.0
26	2.5	103	59	---	e99	---	e167	e95	e41	e18	e7.0	e7.6
27	2.6	60	57	---	e97	---	e169	e91	e38	e18	e7.0	e5.7
28	3.1	60	107	---	e95	---	e166	e89	e36	e17	e6.9	e5.7
29	2.8	41	76	---	---	---	---	e84	e38	e16	e7.3	e5.7
30	2.8	31	66	---	---	---	---	e80	e36	e15	e6.8	e5.3
31	3.2	---	60	---	---	---	---	e77	---	e14	e6.8	---
TOTAL	84.5	1006.0	---	---	---	---	---	---	1440	873	353.5	197.4
MEAN	2.73	33.5	---	---	---	---	---	---	48.0	28.2	11.4	6.58
MAX	4.5	151	---	---	---	---	---	---	74	42	16	8.0
MIN	2.1	2.9	---	---	---	---	---	---	36	14	6.8	5.3
AC-FT	168	2000	---	---	---	---	---	---	2860	1730	701	392

e Estimated.

11463200 BIG SULPHUR CREEK NEAR CLOVERDALE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1972, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	38.2	99.8	387	611	564	286	224	60.0	26.3	10.7	6.26	8.21
MAX	290	283	1228	1972	1962	747	726	175	67.0	22.0	11.9	51.4
(WY)	1963	1967	1965	1970	1958	1958	1958	1963	1967	1963	1967	1957
MIN	4.08	4.15	6.82	94.0	81.7	66.4	37.9	21.9	11.0	4.23	3.13	2.79
(WY)	1967	1960	1960	1962	1964	1964	1964	1959	1959	1959	1959	1970

SUMMARY STATISTICS WATER YEARS 1957 - 1972

ANNUAL MEAN	192		
HIGHEST ANNUAL MEAN	376		1958
LOWEST ANNUAL MEAN	53.1		1972
HIGHEST DAILY MEAN	10400	Dec 22	1964
LOWEST DAILY MEAN	1.8	Oct 20	1964
ANNUAL SEVEN-DAY MINIMUM	2.0	Oct 15	1964
INSTANTANEOUS PEAK FLOW	15700	Dec 22	1964
INSTANTANEOUS PEAK STAGE	15.08	Dec 22	1964
ANNUAL RUNOFF (AC-FT)	138800		
10 PERCENT EXCEEDS	395		
50 PERCENT EXCEEDS	33		
90 PERCENT EXCEEDS	4.2		

11463980 RUSSIAN RIVER AT DIGGER BEND, NEAR HEALDSBURG, CA

LOCATION.--Lat 38°37'59", long 122°51'16", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on right bank, 1,800 ft downstream from unnamed tributary and 1.6 mi northeast of Healdsburg.

DRAINAGE AREA.--791 mi^2.

PERIOD OF RECORD.--October 1988 to current year (low flow only). Records for October 1985 to September 1988 are in the files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No records computed above 300 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	100	230	---	---	---	---	---	---	268	224	235
2	121	103	214	---	---	---	---	---	---	266	209	234
3	116	100	---	---	---	---	---	---	---	260	212	235
4	124	98	---	---	---	---	---	---	---	259	211	e232
5	134	129	---	---	---	---	---	---	---	257	217	e228
6	126	151	---	---	---	---	---	---	---	251	224	e224
7	120	145	---	---	---	---	---	---	---	244	229	e222
8	112	126	---	---	---	---	---	---	---	243	230	e220
9	106	223	---	---	---	---	---	---	---	239	223	e214
10	96	---	---	---	---	---	---	---	---	241	222	e212
11	97	236	---	---	---	---	---	---	---	245	225	e208
12	101	180	---	---	---	---	---	---	---	247	223	e202
13	116	155	---	---	---	---	---	---	---	244	224	e200
14	111	140	---	---	---	---	---	---	---	238	223	e195
15	99	153	---	---	---	---	---	---	---	233	226	e190
16	92	201	---	---	---	---	---	---	---	229	227	e188
17	87	181	---	---	---	---	---	---	---	226	227	e187
18	88	161	---	---	---	---	---	---	---	234	222	e186
19	84	152	---	---	---	---	---	---	---	226	220	e187
20	78	146	---	---	---	---	---	---	---	225	217	e190
21	75	140	---	---	---	---	---	---	---	233	216	e192
22	85	137	---	---	---	---	---	---	---	233	218	e194
23	91	133	---	---	---	---	---	---	---	229	214	200
24	95	130	---	---	---	---	---	---	299	230	207	202
25	102	---	---	---	---	---	---	---	287	236	205	202
26	103	---	---	---	---	---	---	---	279	233	224	204
27	94	---	---	---	---	---	---	---	278	227	229	195
28	90	---	---	---	---	---	---	---	274	217	230	188
29	94	---	---	---	---	---	---	---	270	220	235	186
30	92	---	---	---	---	---	---	---	270	224	231	190
31	96	---	---	---	---	---	---	---	---	232	235	---
TOTAL	3163	---	---	---	---	---	---	---	---	7389	6879	6142
MEAN	102	---	---	---	---	---	---	---	---	238	222	205
MAX	138	---	---	---	---	---	---	---	---	268	235	235
MIN	75	---	---	---	---	---	---	---	---	217	205	186
AC-FT	6270	---	---	---	---	---	---	---	---	14660	13640	12180

e Estimated.

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on left bank 2 mi east of Healdsburg and 3.5 mi upstream from Dry Creek.

DRAINAGE AREA.--793 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 981: 1942. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 77.01 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Several diversions for irrigation of about 17,800 acres upstream from station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino 63 mi upstream. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,000 ft^3/s, Jan. 9, 1995, gage height, 26.23 ft; maximum gage height, 30.0 ft, Feb. 28, 1940; minimum daily discharge, 12 ft^3/s, June 14, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.8 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73,000 ft^3/s, Jan. 9, gage height, 26.23 ft.; minimum daily, 73 ft^3/s, Oct. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	102	257	530	8700	658	2140	6100	e535	294	216	221
2	127	105	234	576	7570	740	1920	4370	e510	291	182	224
3	123	98	1460	1990	5260	1260	1740	3260	e470	275	180	227
4	133	98	2850	3090	4350	1220	1600	2810	e455	274	183	e220
5	145	144	1220	4030	3530	986	1480	2490	e450	270	189	e218
6	135	176	720	4550	3000	868	1800	1830	e435	258	210	e214
7	127	164	548	15200	2640	803	3620	1480	433	240	221	e212
8	116	134	452	43300	2390	2190	3390	1340	416	238	223	e202
9	109	250	391	69300	2170	46300	2820	1240	401	229	209	e198
10	98	508	349	42100	1950	31400	2620	1180	392	228	207	e197
11	97	318	329	20500	1820	24800	2300	1090	382	243	217	e218
12	102	225	428	19200	1700	14700	1830	1030	371	248	214	e192
13	120	180	583	23600	1600	15700	2290	1300	363	244	214	e188
14	116	152	920	33600	1660	23200	2610	1360	377	229	210	e187
15	101	171	1830	15100	1490	19600	1950	1350	e370	218	e211	e186
16	91	258	1180	9600	1330	9970	1860	1500	e450	209	212	188
17	85	227	945	8420	1180	9450	1680	1250	e415	206	e206	175
18	86	188	844	8280	1100	8790	1530	1130	e405	221	e200	172
19	82	170	751	7170	1010	8230	1420	1040	e380	212	e198	177
20	76	162	624	8160	950	11200	1350	e950	e365	199	e194	173
21	73	149	537	8060	912	9870	1270	e900	e340	213	e200	170
22	81	142	481	7970	880	13700	1160	e865	e325	210	e194	165
23	88	137	433	11400	830	12700	1090	e810	e315	206	e189	177
24	94	137	476	12900	781	11800	1040	e760	e307	212	e188	182
25	103	435	583	9940	754	9280	1030	e725	e300	223	e184	183
26	103	588	519	9640	748	7710	1020	e700	e297	220	e200	186
27	93	527	450	11800	730	4830	1000	e660	314	209	208	173
28	88	431	571	10900	699	3980	979	e630	306	185	209	165
29	92	404	699	9060	---	3420	2030	e600	296	189	218	160
30	90	332	590	9950	---	2800	2200	e575	298	202	214	164
31	96	---	524	9320	---	2400	---	e550	---	219	218	---
TOTAL	3204	7112	22778	449236	61734	314555	54769	45875	11473	7114	6318	5714
MEAN	103	237	735	14490	2205	10150	1826	1480	382	229	204	190
MAX	145	588	2850	69300	8700	46300	3620	6100	535	294	223	227
MIN	73	98	234	530	699	658	979	550	296	185	180	160
AC-FT	6360	14110	45180	891100	122400	623900	108600	90990	22760	14110	12530	11330

e Estimated.

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	279	798	2421	4013	3808	2830	1464	547	259	185	186	191
MAX	1605	5293	8945	14490	14650	11810	6592	1638	672	300	331	360
(WY)	1958	1974	1956	1995	1986	1983	1982	1983	1993	1961	1974	1974
MIN	33.7	122	111	90.9	58.7	146	55.7	85.1	81.3	70.5	82.8	67.4
(WY)	1978	1992	1991	1977	1977	1977	1977	1977	1977	1947	1947	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	187694		989882			
ANNUAL MEAN	514		2712		1405	
HIGHEST ANNUAL MEAN					3277	1983
LOWEST ANNUAL MEAN					101	1977
HIGHEST DAILY MEAN	8480	Feb 20	69300	Jan 9	69300	Jan 9 1995
LOWEST DAILY MEAN	73	Oct 21	73	Oct 21	12	Jun 14 1988
ANNUAL SEVEN-DAY MINIMUM	82	Oct 17	82	Oct 17	21	Apr 20 1977
INSTANTANEOUS PEAK FLOW			73000	Jan 9	73000	Jan 9 1995
INSTANTANEOUS PEAK STAGE			26.23	Jan 9	30.00	Feb 28 1940
ANNUAL RUNOFF (AC-FT)	372300		1963000		1018000	
10 PERCENT EXCEEDS	966		8530		3310	
50 PERCENT EXCEEDS	191		450		310	
90 PERCENT EXCEEDS	95		137		140	

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL DATA: Water years 1951-66, 1980.
WATER TEMPERATURE: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1965 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965 provides hourly recordings.

REMARKS.--Temperature during summer months affected by recreation dams above and below gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 28.0°C, at times in some years; minimum recorded, 3.0°C, Dec. 23, 1990.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 24.5°C, June 26; minimum recorded, 7.5°C, Dec. 9, 10, 15, 30.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.5	17.5	15.0	13.0	11.0	9.0	9.5	9.0	13.5	12.5	14.5	13.5
2	22.0	17.0	14.0	11.5	11.5	10.0	10.0	9.0	13.5	12.0	14.5	14.0
3	21.0	18.0	13.5	10.0	11.0	10.0	10.0	9.5	13.5	12.5	14.0	13.0
4	18.0	16.0	12.5	10.0	10.5	9.5	9.5	9.0	13.5	12.5	13.5	12.0
5	19.5	15.0	12.5	11.5	9.5	8.5	10.0	9.0	13.0	12.5	13.0	12.0
6	20.0	15.5	14.0	12.5	10.0	8.5	10.0	9.0	13.0	12.5	13.0	11.0
7	20.5	15.5	14.5	12.0	9.5	8.5	10.0	9.0	13.5	12.0	12.5	11.5
8	21.0	16.0	14.0	11.0	9.0	8.0	11.5	10.0	13.5	12.5	12.5	12.0
9	21.0	16.5	13.5	12.0	8.5	7.5	12.5	11.5	13.0	11.5	13.0	12.5
10	19.5	16.5	12.5	11.0	8.5	7.5	12.0	12.0	13.0	12.0	13.0	12.5
11	20.0	15.5	12.5	10.0	9.5	8.0	12.0	11.5	13.0	12.0	12.5	12.0
12	18.5	15.0	13.0	10.5	10.0	9.0	12.0	11.5	12.5	11.5	12.5	12.0
13	18.5	14.5	12.5	9.5	9.5	9.0	12.5	12.0	12.5	11.5	12.5	11.5
14	18.5	15.5	12.0	9.0	9.5	8.5	12.5	12.0	11.5	10.0	13.0	12.0
15	17.5	14.0	12.0	10.5	8.5	7.5	12.0	11.5	11.0	9.0	13.0	11.5
16	17.5	13.0	11.5	9.5	9.5	8.5	11.5	10.5	11.0	9.5	14.0	12.0
17	17.0	13.0	12.0	10.0	9.5	9.5	10.5	9.5	11.5	9.5	12.0	12.0
18	17.5	12.5	10.5	9.0	10.0	9.5	10.5	10.0	13.0	11.0	12.5	12.5
19	17.5	13.5	10.5	8.0	10.0	10.0	10.5	9.5	14.0	12.5	12.0	12.0
20	17.5	13.5	11.0	9.0	10.5	9.5	10.0	9.5	14.0	12.5	12.0	12.0
21	18.0	13.0	12.0	10.0	10.5	9.5	10.5	9.5	14.5	13.0	11.0	11.0
22	18.0	13.5	11.0	9.0	10.0	9.0	10.5	10.0	14.5	14.0	10.0	10.0
23	18.0	13.5	10.5	8.5	9.5	9.0	11.0	10.5	14.5	14.0	9.5	9.5
24	18.0	14.5	11.5	9.0	10.5	9.5	11.0	10.5	15.0	13.5	9.0	9.0
25	17.5	15.0	11.5	10.0	9.5	8.5	11.5	10.5	14.5	14.0	10.5	10.5
26	18.0	14.0	10.0	9.0	10.5	9.0	11.5	10.5	14.0	14.0	11.0	11.0
27	19.5	16.0	10.0	9.0	10.0	9.5	11.5	10.5	14.0	13.5	11.0	11.0
28	19.5	16.0	10.5	9.0	10.0	9.0	12.0	11.5	14.0	13.5	11.5	11.5
29	17.5	13.5	10.0	8.5	9.0	8.0	12.5	12.0	---	---	11.5	11.5
30	16.5	12.5	10.5	8.5	8.5	7.5	12.5	12.5	---	---	12.0	12.0
31	16.5	13.0	---	---	9.0	8.0	14.0	12.5	---	---	12.0	12.0
MONTH	22.0	12.5	15.0	8.0	11.5	7.5	14.0	9.0	15.0	9.0	14.5	9.0

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.5	12.5	14.5	14.5	20.0	20.0	20.0	20.0	23.5	23.5	20.5	20.5
2	12.5	12.5	14.5	14.5	19.0	19.0	20.0	20.0	23.0	23.0	20.5	20.5
3	13.0	13.0	14.0	14.0	19.0	19.0	21.0	21.0	23.0	23.0	20.5	20.5
4	14.0	14.0	13.5	13.5	19.5	19.5	21.0	21.0	22.0	22.0	20.5	20.5
5	14.0	14.0	13.5	13.5	18.0	18.0	22.0	22.0	22.0	22.0	20.5	20.5
6	14.5	14.5	13.5	13.5	16.0	16.0	21.5	21.5	21.5	21.5	20.5	20.5
7	13.5	13.5	14.5	14.5	17.0	17.0	22.0	22.0	22.0	22.0	21.0	21.0
8	12.0	12.0	15.0	15.0	17.5	17.5	22.5	22.5	22.0	22.0	20.5	20.5
9	10.5	10.5	15.0	15.0	18.5	18.5	22.5	22.5	22.5	22.5	20.5	20.5
10	11.5	11.5	15.0	15.0	17.5	17.5	21.5	21.5	21.5	21.5	20.0	20.0
11	12.5	12.5	15.5	15.5	19.0	19.0	21.0	21.0	20.5	20.5	20.0	20.0
12	14.0	14.0	14.5	14.5	18.0	18.0	21.0	21.0	21.5	21.5	19.0	19.0
13	13.0	13.0	14.0	14.0	18.0	18.0	21.0	21.0	23.0	23.0	19.0	19.0
14	11.5	11.5	13.5	13.5	18.0	18.0	22.5	22.5	23.0	23.0	19.5	19.5
15	11.5	11.5	14.0	14.0	17.5	17.5	24.0	24.0	23.5	23.5	19.0	19.0
16	10.5	10.5	14.5	14.5	18.5	18.5	24.0	24.0	22.0	22.0	19.0	19.0
17	12.0	12.0	15.5	15.5	17.5	17.5	22.5	22.5	21.0	21.0	18.5	18.5
18	12.0	12.0	17.0	17.0	18.0	18.0	21.5	21.5	21.5	21.5	19.0	19.0
19	12.0	12.0	17.5	17.5	17.5	17.5	21.5	21.5	22.0	22.0	20.0	20.0
20	13.0	13.0	17.5	17.5	18.0	18.0	22.0	22.0	23.0	23.0	19.5	19.5
21	12.0	12.0	17.0	17.0	19.5	19.5	21.5	21.5	22.5	22.5	19.5	19.5
22	13.5	13.5	17.0	17.0	20.5	20.5	21.0	21.0	22.0	22.0	19.5	19.5
23	14.5	14.5	17.5	17.5	22.0	22.0	22.0	22.0	22.5	22.5	18.5	18.5
24	15.5	15.5	18.5	18.5	23.5	23.5	22.0	22.0	22.0	22.0	18.5	18.5
25	16.0	16.0	18.5	18.5	24.0	24.0	22.0	22.0	21.5	21.5	18.0	18.0
26	16.0	16.0	18.5	18.5	24.5	24.5	22.0	22.0	21.0	21.0	17.5	17.5
27	15.5	15.5	18.5	18.5	22.5	22.5	23.5	23.5	21.0	21.0	17.5	17.5
28	15.0	15.0	19.0	19.0	21.5	21.5	23.0	23.0	20.5	20.5	17.5	17.5
29	14.0	14.0	19.5	19.5	21.5	21.5	23.0	23.0	21.0	21.0	16.5	16.5
30	14.5	14.5	19.5	19.5	20.5	20.5	23.5	23.5	21.0	21.0	16.5	16.5
31	---	---	19.0	19.0	---	---	24.0	24.0	21.0	21.0	---	---
MONTH	16.0	10.5	19.5	13.5	24.5	16.0	24.0	20.0	23.5	20.5	21.0	16.5
YEAR	24.5	7.5										

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°43'11", long 122°59'58", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft downstream from Warm Springs Dam, 500 ft upstream from county road bridge, and 5.0 mi west of Geyserville.

DRAINAGE AREA.--131 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to September 1942 (published as "Dry Creek near Healdsburg"), October 1981 to current year.
WATER TEMPERATURE RECORD: Water years 1981-94.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 188.21 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Sept. 30, 1942, nonrecording gage at site 500 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow affected by storage in Lake Sonoma, capacity, 380,600 acre-ft, beginning October 1983. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,500 ft^3/s, Feb. 28, 1940, gage height, 16.9 ft, datum then in use; no flow Oct. 1 to Dec. 8, 1939. Maximum discharge since regulation by Lake Sonoma, 5,090 ft^3/s Jan. 18, 1995, gage height, 10.16 ft; minimum daily, 6.3 ft^3/s July 10, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 21.8 ft from floodmarks, discharge about 25,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,090 ft^3/s, Jan. 18, gage height, 10.16 ft; minimum daily, 25 ft^3/s, May 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	99	88	84	299	139	3220	172	126	92	90	145
2	84	98	88	83	94	153	3200	483	86	92	90	145
3	93	93	92	90	107	178	3180	1560	89	88	95	144
4	101	92	88	88	105	178	3140	1990	89	91	100	144
5	102	90	88	87	797	177	2740	1130	88	92	100	125
6	102	79	88	90	2090	197	2170	316	89	93	100	114
7	101	95	88	98	2680	232	1470	218	89	94	99	117
8	100	95	89	132	2960	244	1030	207	90	92	100	111
9	100	86	90	173	2970	179	1030	93	89	92	100	108
10	100	75	90	96	2950	109	1030	25	90	91	100	108
11	100	84	90	101	2950	107	1050	26	90	92	100	104
12	100	93	88	96	2930	107	1060	26	89	93	100	103
13	99	96	84	102	2940	113	791	26	90	93	100	105
14	98	96	86	97	2940	112	339	26	90	93	99	103
15	98	86	84	95	2930	124	215	26	91	93	99	99
16	97	76	82	1210	2920	2160	216	26	90	93	99	95
17	99	83	79	3300	2080	3940	216	26	91	92	99	93
18	102	89	79	4520	1460	3980	215	27	91	93	100	94
19	114	88	79	4860	1460	3080	217	27	89	93	100	94
20	98	88	79	4970	1450	832	191	27	89	93	100	94
21	97	88	79	4980	1170	183	173	28	90	92	100	94
22	102	88	81	4920	876	204	173	65	89	92	100	94
23	102	88	84	4540	417	1620	173	149	91	92	100	95
24	102	89	85	2000	183	3040	170	190	91	92	126	95
25	109	89	84	417	182	3000	171	190	91	92	150	95
26	129	89	84	387	182	2980	171	190	90	90	150	94
27	126	88	84	538	160	3870	171	190	91	90	150	95
28	126	88	84	610	155	4490	170	189	91	90	148	95
29	126	88	84	610	---	4090	170	190	92	90	147	95
30	126	88	83	614	---	3250	170	189	92	90	145	95
31	116	---	83	600	---	3260	---	188	---	92	145	---
TOTAL	3233	2664	2634	40588	42437	46328	28432	8215	2733	2847	3431	3192
MEAN	104	88.8	85.0	1309	1516	1494	948	265	91.1	91.8	111	106
MAX	129	99	92	4980	2970	4490	3220	1990	126	94	150	145
MIN	84	75	79	83	94	107	170	25	86	88	90	93
AC-FT	6410	5280	5220	80510	84170	91890	56390	16290	5420	5650	6810	6330

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	74.5	165	217	337	286	361	166	87.3	103	118	108	84.8
MAX	114	524	1501	1309	1516	1494	948	265	196	274	169	122
(WY)	1994	1984	1984	1995	1995	1995	1995	1995	1987	1987	1987	1988
MIN	7.70	50.8	49.8	49.3	73.3	25.0	23.0	26.1	25.1	27.0	42.0	39.0
(WY)	1984	1986	1986	1986	1988	1985	1985	1985	1985	1985	1985	1985

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1984 - 1995	
ANNUAL TOTAL	36826		186734			
ANNUAL MEAN	101		512		175	
HIGHEST ANNUAL MEAN					512	1995
LOWEST ANNUAL MEAN					46.0	1985
HIGHEST DAILY MEAN	184	Jun 12	4980	Jan 21	4980	Jan 21 1995
LOWEST DAILY MEAN	24	Sep 20	25	May 10	6.1	Oct 21 1983
ANNUAL SEVEN-DAY MINIMUM	27	Sep 20	26	May 10	6.3	Oct 18 1983
INSTANTANEOUS PEAK FLOW			5090	Jan 18	5090	Jan 18 1995
INSTANTANEOUS PEAK STAGE			10.16	Jan 18	10.16	Jan 18 1995
ANNUAL RUNOFF (AC-FT)	73040		370400		127100	
10 PERCENT EXCEEDS	149		2080		184	
50 PERCENT EXCEEDS	97		100		95	
90 PERCENT EXCEEDS	51		84		36	

11465200 DRY CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, on left bank pier of bridge 0.3 mi downstream from Pena Creek, 3.0 mi downstream from Warm Springs Dam, and 3 mi west of Geyserville.

DRAINAGE AREA.--162 mi^2.

PERIOD OF RECORD.--October 1959 to current year.
CHEMICAL DATA: Water years 1971-81.
WATER TEMPERATURE: Water years 1964-86.
SEDIMENT DATA: Water years 1964-87.
TURBIDITY: Water years 1964-86.

REVISED RECORDS.--WDR CA-65-1: 1962(M), 1963(M).

GAGE.--Water-stage recorder. Datum of gage is 156.40 ft above sea level. Prior to Oct. 1, 1964, at datum 4.00 ft higher. Oct. 1, 1964, to Apr. 8, 1976, at datum 3.00 ft higher; Apr. 9, 1976, to Sept. 30, 1982, at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Small diversions upstream from station for irrigation of about 1,200 acres. Flow affected by storage in Lake Sonoma, 3.0 mi upstream, capacity 380,600 acre-ft, beginning October 1983. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft^3/s, Jan. 31, 1963, gage height, 20.50 ft, present datum; no flow at times. Maximum discharge since regulation by Lake Sonoma, 7,600 ft^3/s, Jan. 8, 1995, gage height, 15.48 ft; minimum daily, 19 ft^3/s, Oct. 18-25, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,600 ft^3/s, Jan. 8, gage height, 15.48 ft; minimum daily, 75 ft^3/s, Nov. 6, May 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	98	99	98	694	157	3520	493	139	101	94	146
2	79	98	99	104	360	170	3490	649	109	101	94	147
3	88	91	265	164	314	180	3460	1900	109	98	99	147
4	102	87	159	390	274	174	3430	2440	109	99	103	147
5	105	98	120	331	981	172	3090	1480	107	97	103	136
6	104	75	110	308	2480	178	2600	361	108	97	103	124
7	104	91	104	1670	2990	197	1950	248	108	97	103	126
8	104	95	101	4310	3160	738	1390	233	108	97	103	121
9	104	104	99	3670	3150	4210	1360	164	108	98	103	116
10	104	76	98	1940	3150	1600	1350	99	108	96	104	116
11	104	84	98	1390	3140	1200	1360	92	108	97	104	113
12	105	100	102	1430	3130	515	1370	90	107	96	104	111
13	107	106	98	2070	3130	978	1010	90	106	96	104	112
14	107	106	140	2040	3120	1630	387	85	107	96	104	111
15	106	103	146	845	3100	833	258	85	109	96	104	105
16	106	82	117	1690	3090	2090	250	82	108	96	105	101
17	107	90	103	3430	2530	4950	244	80	106	98	104	99
18	110	102	99	4300	1840	4920	241	79	106	97	104	99
19	120	100	94	4630	1750	3980	241	77	104	96	105	99
20	97	99	91	4780	1740	1770	229	76	103	97	105	99
21	92	99	89	4830	1410	663	218	75	104	96	105	100
22	101	97	88	5330	989	1190	216	93	103	97	104	100
23	101	96	90	5300	465	2190	216	142	104	97	104	101
24	101	98	97	3340	193	3540	213	171	104	97	121	101
25	108	131	95	1280	185	3440	213	172	104	97	145	101
26	138	127	94	1100	181	3380	211	171	103	96	146	100
27	138	115	92	1270	172	4000	215	172	102	96	146	101
28	138	109	95	1250	162	4720	215	171	101	95	146	100
29	138	104	92	1120	---	4480	259	171	102	94	146	100
30	138	102	91	1200	---	3610	235	170	101	95	146	100
31	127	---	90	1090	---	3560	---	170	---	96	146	---
TOTAL	3361	2963	3355	66700	47880	65415	33441	10581	3205	3002	3507	3379
MEAN	108	98.8	108	2152	1710	2110	1115	341	107	96.8	113	113
MAX	138	131	265	5330	3160	4950	3520	2440	139	101	146	147
MIN	78	75	88	98	162	157	211	75	101	94	94	99
AC-FT	6670	5880	6650	132300	94970	129800	66330	20990	6360	5950	6960	6700

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1983, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	22.5	240	610	1178	959	666	345	80.3	23.3	6.01	1.70	1.35
MAX	323	1619	2035	3930	2038	3095	1499	369	76.0	20.9	8.91	8.61
(WY)	1963	1974	1965	1970	1983	1983	1982	1983	1983	1983	1983	1983
MIN	.000	.54	4.31	22.7	27.1	34.1	9.58	5.64	.25	.000	.000	.000
(WY)	1961	1981	1977	1976	1977	1977	1977	1977	1977	1977	1972	1972

SUMMARY STATISTICS	WATER YEARS 1960 - 1983	
ANNUAL MEAN	342	
HIGHEST ANNUAL MEAN	790	1983
LOWEST ANNUAL MEAN	8.81	1977
HIGHEST DAILY MEAN	19400	Jan 16 1974
LOWEST DAILY MEAN	.00	Sep 17 1960
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 17 1960
INSTANTANEOUS PEAK FLOW	32400	Jan 31 1963
INSTANTANEOUS PEAK STAGE	20.50	Jan 31 1963
ANNUAL RUNOFF (AC-FT)	247800	
10 PERCENT EXCEEDS	868	
50 PERCENT EXCEEDS	32	
90 PERCENT EXCEEDS	.08	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	85.6	139	136	530	501	599	200	106	122	138	121	93.6
MAX	109	459	232	2152	1710	2110	1115	341	199	296	180	128
(WY)	1994	1987	1988	1995	1995	1995	1995	1995	1987	1987	1987	1988
MIN	42.2	60.4	88.2	83.0	85.4	86.0	38.5	36.6	93.5	96.8	96.1	44.1
(WY)	1991	1986	1991	1991	1991	1988	1990	1991	1989	1995	1990	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1986 - 1995	
ANNUAL TOTAL	42399		246789			
ANNUAL MEAN	116		676		210	
HIGHEST ANNUAL MEAN					676	1995
LOWEST ANNUAL MEAN					90.5	1990
HIGHEST DAILY MEAN	657	Feb 17	5330	Jan 22	5330	Jan 22 1995
LOWEST DAILY MEAN	32	Sep 21	75	Nov 6	27	May 20 1992
ANNUAL SEVEN-DAY MINIMUM	32	Sep 21	79	May 15	29	May 17 1992
INSTANTANEOUS PEAK FLOW			7600	Jan 8	7600	Jan 8 1995
INSTANTANEOUS PEAK STAGE			15.48	Jan 8	15.48	Jan 8 1995
ANNUAL RUNOFF (AC-FT)	84100		489500		152300	
10 PERCENT EXCEEDS	173		3030		311	
50 PERCENT EXCEEDS	103		108		105	
90 PERCENT EXCEEDS	55		94		57	

11465350 DRY CREEK NEAR MOUTH, NEAR HEALDSBURG, CA

LOCATION.--Lat 38°35'15", long 122°51'40", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on right bank 0.25 mi upstream from mouth, 0.4 mi downstream from Mill Creek, 1.7 mi south of Healdsburg, and 13.5 mi downstream from Warm Springs Dam.

DRAINAGE AREA.--217 mi^2.

PERIOD OF RECORD.--November 1980 to current year (low flow only).

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No records computed above 200 ft^3/s. Some diversions for irrigation upstream from station. Flow regulated by Lake Sonoma 13.5 mi upstream beginning October 1983. See schematic diagram of Russian River basin.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	99	96	128	---	---	---	---	90	106	85	139
2	59	92	93	130	---	---	---	---	70	104	83	139
3	65	89	---	---	---	---	---	---	66	102	82	140
4	83	84	---	---	---	---	---	---	65	102	91	140
5	89	130	167	---	---	---	---	---	64	102	94	136
6	90	91	149	---	---	---	---	---	62	100	97	122
7	90	82	139	---	---	---	---	169	62	98	96	119
8	91	90	132	---	---	---	---	147	99	97	95	119
9	92	147	128	---	---	---	---	127	117	95	93	114
10	93	92	126	---	---	---	---	90	115	94	94	113
11	92	76	130	---	---	---	---	77	114	93	95	112
12	92	84	142	---	---	---	---	71	112	93	95	108
13	91	89	135	---	---	---	---	71	110	92	95	108
14	91	90	199	---	---	---	---	66	116	88	94	108
15	89	124	178	---	---	---	---	64	129	85	93	104
16	89	95	143	---	---	---	179	62	124	86	92	99
17	88	81	130	---	---	---	160	59	122	89	92	94
18	92	85	124	---	---	---	148	57	121	90	92	92
19	95	86	119	---	---	---	142	56	118	90	93	89
20	97	86	116	---	---	---	138	54	116	91	94	89
21	85	85	114	---	---	---	130	54	115	90	94	90
22	91	84	111	---	---	---	127	55	114	90	94	90
23	93	84	111	---	---	---	124	70	112	91	93	91
24	93	95	122	---	---	---	123	93	110	91	97	90
25	93	177	117	---	---	---	121	96	108	89	128	90
26	111	141	114	---	---	---	120	97	107	88	135	89
27	115	123	114	---	---	---	122	97	107	84	138	88
28	115	114	118	---	---	---	124	97	108	84	139	88
29	116	106	114	---	---	---	---	97	108	84	139	84
30	117	100	113	---	---	---	193	97	108	85	139	84
31	117	---	113	---	---	---	---	96	---	85	140	---
TOTAL	2863	3001	---	---	---	---	---	---	3089	2858	3181	3168
MEAN	92.4	100	---	---	---	---	---	---	103	92.2	103	106
MAX	117	177	---	---	---	---	---	---	129	106	140	140
MIN	49	76	---	---	---	---	---	---	62	84	82	84
AC-FT	5680	5950	---	---	---	---	---	---	6130	5670	6310	6280

11466500 LAGUNA DE SANTA ROSA NEAR GRATON, CA

LOCATION.--Lat 38°27'10", long 122°50'03", in Molinos Grant, Sonoma County, Hydrologic Unit 18010110, on downstream side of left bank pier of highway bridge, 0.2 mi downstream from Santa Rosa Creek, and 2 mi northeast of Graton.

PERIOD OF RECORD.--February 1940 to September 1949 (contents only), October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers). Prior to Dec. 31, 1958, at site 75 ft downstream at same datum.

REMARKS.--The laguna is a natural water channel and overflow basin connecting Santa Rosa Creek, Mark West Creek, and other smaller creeks with the Russian River. During floods, directions of flow may be either to or from the Russian River, and the laguna acts as a natural regulator of floods on the lower Russian River. Figures given represent only those days when the elevation was above 55.0 ft. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 74.6 ft, Feb. 18, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 74.5 ft, Jan. 10.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	56.0	---	---	56.3	---	---	---	---
2	---	---	---	---	55.6	---	---	55.7	---	---	---	---
3	---	---	55.3	---	55.4	---	---	---	---	---	---	---
4	---	---	56.2	56.5	55.0	---	---	---	---	---	---	---
5	---	---	55.8	56.6	---	---	---	---	---	---	---	---
6	---	---	55.5	56.4	---	---	---	---	---	---	---	---
7	---	---	55.0	58.0	---	---	---	---	---	---	---	---
8	---	---	---	e68.2	---	56.6	---	---	---	---	---	---
9	---	---	---	e74.4	---	68.3	---	---	---	---	---	---
10	---	---	---	e71.5	---	66.6	---	---	---	---	---	---
11	---	---	---	e65.2	---	63.4	---	---	---	---	---	---
12	---	---	---	61.4	---	59.8	---	---	---	---	---	---
13	---	---	---	63.4	55.5	60.8	---	---	---	---	---	---
14	---	---	---	64.8	55.9	60.6	---	---	---	---	---	---
15	---	---	---	e61.0	55.2	59.2	---	---	---	---	---	---
16	---	---	---	e58.3	---	57.1	---	---	---	---	---	---
17	---	---	---	e56.8	---	56.0	---	---	---	---	---	---
18	---	---	---	e56.0	---	55.9	---	---	---	---	---	---
19	---	---	---	55.4	---	55.6	---	---	---	---	---	---
20	---	---	---	55.2	---	57.3	---	---	---	---	---	---
21	---	---	---	55.2	---	57.4	---	---	---	---	---	---
22	---	---	---	57.5	---	58.9	---	---	---	---	---	---
23	---	---	---	58.7	---	58.6	---	---	---	---	---	---
24	---	---	---	58.1	---	57.1	---	---	---	---	---	---
25	---	---	---	56.8	---	56.1	---	---	---	---	---	---
26	---	---	---	56.9	---	55.5	---	---	---	---	---	---
27	---	---	---	58.8	---	55.1	---	---	---	---	---	---
28	---	---	---	58.1	---	---	---	---	---	---	---	---
29	---	---	---	56.7	---	---	---	---	---	---	---	---
30	---	---	---	58.0	---	---	---	---	---	---	---	---
31	---	---	---	56.9	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

e Estimated.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 38°30'31", long 122°55'36", in NE 1/4 SE 1/4 sec.26, T.8 N., R.10 W., Sonoma County, Hydrologic Unit 18010110, on right bank at downstream side of Hacienda Bridge, 0.1 mi upstream from Hobson Creek, and 3.8 mi east of Guerneville.

DRAINAGE AREA.--1,338 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "at Guerneville."

REVISED RECORDS.--WSP 1395: Drainage area at former site. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 20.14 ft above sea level. Prior to Oct. 1, 1954, nonrecording gage at bridge 5.3 mi downstream at datum 8.58 ft lower. Oct. 1, 1954, to Oct. 23, 1974, at site 0.7 mi downstream at datum 2.75 ft lower. Supplementary water-stage recorder 2.1 mi downstream used during periods of low flow, 1948-54.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Mendocino 77 mi upstream, beginning November 1958, and by Lake Sonoma 26 mi upstream, beginning October 1983. Many diversions upstream from station for irrigation of about 29,000 acres. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations), and by diversion for municipal use at Wohler Pumping Plant 4.0 mi upstream beginning in May 1959. See schematic diagram of Russian River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 102,000 ft^3/s, Feb. 18, 1986, gage height, 48.56 ft, from rating curve extended above 39,000 ft^3/s; maximum gage height, 49.7 ft, Dec. 23, 1955, site and datum then in use, from floodmarks; minimum daily discharge, 0.75 ft^3/s, May 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 93,900 ft^3/s, Jan. 9, gage height, 48.01 ft; minimum daily, 93 ft^3/s, Oct. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	115	474	859	13300	999	7380	7590	738	307	204	245
2	97	109	430	1050	11100	1050	7030	8160	649	290	183	250
3	97	110	1980	1500	7790	1520	6730	6080	544	291	176	255
4	110	106	4970	4350	6160	1630	6460	6220	474	293	180	257
5	179	351	2990	6840	5230	1380	6150	5610	493	402	184	301
6	144	518	1790	6750	5580	1220	5660	3770	474	276	194	300
7	138	440	1350	15600	6130	1130	7170	2760	473	348	208	241
8	127	424	1080	42600	6440	2330	6840	2370	459	253	207	211
9	126	870	886	86200	6280	43600	5760	2070	443	243	204	200
10	117	942	751	88700	5980	65100	5220	1790	439	246	197	198
11	103	663	669	62000	5770	54200	4880	1580	431	237	197	203
12	112	495	906	43500	5600	36100	4320	1420	428	241	198	253
13	126	418	1020	36700	5470	25700	4380	1640	405	242	196	217
14	108	358	1430	55800	5920	37500	4290	1910	349	239	199	204
15	107	501	2620	42500	5790	39100	3500	1650	411	233	194	194
16	111	573	2030	22600	5430	22200	3040	2000	495	222	191	192
17	102	483	1520	16100	5010	18400	2770	1610	472	219	200	186
18	94	421	1390	15800	3830	17400	2470	1400	454	219	199	176
19	95	373	1200	14800	3460	16500	2230	1260	443	221	194	183
20	94	339	1040	15000	3250	15800	2050	1160	416	215	189	174
21	93	309	881	15400	3030	17800	1890	1080	388	212	214	168
22	99	285	773	16200	2460	19200	1700	1040	370	217	161	166
23	102	263	695	23700	1930	23000	1580	1030	344	215	155	171
24	106	250	747	25400	1430	22200	1470	1020	333	218	154	178
25	107	603	854	20000	1270	18000	1380	984	324	214	167	178
26	115	826	786	14500	1190	14600	1310	952	312	206	197	190
27	111	798	684	19400	1120	11600	1290	926	307	205	217	190
28	113	729	733	19200	1060	10800	1350	893	296	197	219	151
29	120	642	904	16600	---	10200	2420	861	292	192	241	163
30	123	558	808	14900	---	8670	3240	832	319	196	224	185
31	122	---	723	17400	---	7850	---	802	---	205	239	---
TOTAL	3492	13873	39114	781949	137010	566779	115960	72470	12775	7514	6082	6180
MEAN	113	462	1262	25220	4893	18280	3865	2338	426	242	196	206
MAX	179	942	4970	88700	13300	65100	7380	8160	738	402	241	301
MIN	93	106	430	859	1060	999	1290	802	292	192	154	151
AC-FT	6930	27520	77580	1551000	271800	1124000	230000	143700	25340	14900	12060	12260

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	316	1219	4045	6818	6516	4657	2320	719	293	177	167	182
MAX	2515	9425	17410	25220	26020	23290	11700	2798	875	348	308	344
(WY)	1963	1974	1956	1995	1958	1983	1982	1983	1993	1987	1961	1961
MIN	25.3	140	116	127	88.2	201	48.2	39.0	22.6	32.0	36.7	35.9
(WY)	1978	1940	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	274077		1763198			
ANNUAL MEAN	751		4831		2268	
HIGHEST ANNUAL MEAN					5898	1983
LOWEST ANNUAL MEAN					88.7	1977
HIGHEST DAILY MEAN	13200	Feb 20	88700	Jan 10	97700	Feb 18 1986
LOWEST DAILY MEAN	93	Oct 21	93	Oct 21	.75	May 6 1977
ANNUAL SEVEN-DAY MINIMUM	97	Oct 17	97	Oct 17	5.9	Jul 29 1977
INSTANTANEOUS PEAK FLOW			93900	Jan 9	102000	Feb 18 1986
INSTANTANEOUS PEAK STAGE			48.01	Jan 9	49.70	Dec 23 1955
ANNUAL RUNOFF (AC-FT)	543600		3497000		1643000	
10 PERCENT EXCEEDS	1510		15700		5420	
50 PERCENT EXCEEDS	260		723		353	
90 PERCENT EXCEEDS	113		155		138	

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to September 1995 (discontinued).
CHEMICAL DATA: Water years 1951 to September 1995 (discontinued). Published as "at Guerneville" in 1961-65.
BIOLOGICAL DATA: Water years 1975-81.
SPECIFIC CONDUCTANCE: Water years 1974-81.
WATER TEMPERATURE: Water years 1964 to September 1995 (discontinued).
SEDIMENT DATA: Water years 1966 to September 1995 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1973 to September 1981.
WATER TEMPERATURE: January 1964 to September 1981.
SUSPENDED-SEDIMENT DISCHARGE: April to September 1967, October 1969 to September 1986.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
NOV												
29...	1445	652	292	8.1	9.5	4.0	772	10.2	88	210	170	110
JAN												
27...	1500	19900	136	7.8	10.5	160	766	10.1	90	830	7800	59
MAR												
24...	1330	22800	144	7.9	10.5	140	770	10.6	94	710	1700	62
MAY												
31...	1330	807	264	8.1	19.5	4.3	768	9.3	101	K30	130	120
JUL												
12...	1220	238	275	8.2	23.0	5.2	771	8.7	100	K13	140	120
SEP												
05...	1440	264	226	8.2	21.5	3.5	770	9.2	103	K13	52	100

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV												
29...	8	23	13	16	23	0.7	2.7	126	0	104	20	15
JAN												
27...	5	12	7.0	5.4	16	0.3	1.3	66	0	54	6.2	3.7
MAR												
24...	0	13	7.2	5.8	16	0.3	1.4	77	0	63	5.6	3.8
MAY												
31...	4	25	13	8.9	14	0.4	1.2	137	0	113	13	6.2
JUL												
12...	3	25	14	9.5	15	0.4	1.3	143	0	117	14	6.6
SEP												
05...	5	21	12	8.2	15	0.4	1.0	118	0	97	11	4.7

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
NOV												
29...	<0.10	16	190	174	0.26	0.070	1.10	0.100	0.50	0.220	0.210	0.190
JAN												
27...	<0.10	15	94	86	0.13	<0.010	0.300	0.030	0.40	0.280	0.060	0.060
MAR												
24...	<0.10	16	96	91	0.13	0.020	0.230	0.040	0.30	0.130	0.090	0.090
MAY												
31...	0.10	16	155	152	0.21	<0.010	0.270	0.020	<0.20	0.030	0.020	0.020
JUL												
12...	0.20	14	162	155	0.22	<0.010	0.110	<0.015	0.20	0.030	0.020	0.010
SEP												
05...	<0.10	14	133	130	0.18	<0.010	<0.050	<0.015	<0.20	0.030	0.020	0.010

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
NOV												
29...	70	64	<3	86	<4	10	<10	4	<1	<1.0	190	<6
JAN												
27...	510	42	<3	220	<4	11	<10	5	<1	<1.0	120	<6
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
31...	10	72	<3	6	<4	15	<10	1	<1	<1.0	230	<6
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	30	69	<3	21	<4	8	--	2	<1	<1.0	200	<6

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN											
27...*	1615	30.0	122	144	7.8	10.5	766	10.1	90	359	94
27...*	1620	39.0	152	144	7.8	10.5	766	10.1	90	356	95
27...*	1625	45.0	171	143	7.8	10.5	766	10.1	90	348	96
27...*	1630	44.0	186	142	7.8	10.5	766	10.1	90	352	96
27...*	1635	27.0	203	143	7.8	10.5	766	10.1	90	357	95
SEP											
05...*	1325	1.30	17.0	225	8.1	21.0	770	9.2	103	8	98
05...*	1330	1.60	28.0	225	8.1	21.5	770	9.2	103	8	100
05...*	1335	1.40	40.0	224	8.1	21.0	770	9.2	102	8	96
05...*	1345	1.60	50.0	225	8.1	21.0	770	9.2	103	8	98
05...*	1350	1.60	59.0	225	8.1	21.5	770	9.2	103	9	97

* Instantaneous streamflow at the time of cross-sectional measurement: Jan. 27, 19,800 ft^3/s; Sept. 5, 262 ft^3/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
29...	1445	652	9.5	12	21	89
JAN						
27...	1500	19900	10.5	355	19100	95
MAR						
24...	1330	22800	10.5	303	18700	92
MAY						
31...	1330	807	19.5	16	35	86
JUL						
12...	1220	238	23.0	14	9.0	98
SEP						
05...	1440	264	21.5	8	5.7	98

11467590 GARCIA RIVER AT EUREKA HILL ROAD, NEAR POINT ARENA, CA

LOCATION.--Lat 38°54'12", long 123°36'28", in NW 1/4 SW 1/4, sec.14, T.12 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on upstream side of bridge, 1.9 mi upstream from North Fork Garcia River and 4.5 mi southeast of Point Arena.

DRAINAGE AREA.--83.2 mi^2.

PERIOD OF RECORD.--
SEDIMENT DATA: October 1992 to current year (storm season only).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
MAR								
10...	1700	5470	11.0	1500	22200	15	20	29
13...	1600	5920	11.0	1060	16900	15	17	25

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
MAR								
10...	40	52	69	80	94	100	--	--
13...	36	47	60	73	88	96	99	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)
MAR									
13...	1345	1000	1100	0.250	0	1305	1425	30	7.0
13...	1505	1000	1100	0.250	0	1440	1530	30	7.0

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COMPOSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
MAR									
13...	2	20	20	43.0	6190	11.0	21.2	2400	1
13...	2	20	20	43.0	5970	11.0	13.1	2400	2

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 128 MM
MAR									
13...	7	18	24	33	46	68	90	95	100
13...	11	23	31	44	64	81	95	100	--

11468000 NAVARRO RIVER NEAR NAVARRO, CA

LOCATION.--Lat 39°10'20", long 123°40'06", in SE 1/4 sec.7, T.15 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on right bank 2.9 mi downstream from North Fork, 5.2 mi upstream from mouth, and 6.8 mi west of Navarro.

DRAINAGE AREA.--303 mi^2.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1445: 1954(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2.79 ft above sea level. Prior to Jan. 9, 1995 at datum 2.00 ft higher. Prior to Oct. 1, 1969, at site 0.2 mi upstream at datum 1.86 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft^3/s, Dec. 22, 1955, gage height, 40.60 ft, site and datum then in use, from rating curve extended above 19,000 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.23 ft^3/s, July 13, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 38.2 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0715	*51,400	*38.49	Mar. 14	1800	24,600	29.72
Jan. 14	0145	41,300	35.27	Mar. 20	1400	7,670	18.35
Mar. 9	1515	39,800	34.85				

Minimum daily, 1.4 ft^3/s, Oct. 1-2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	5.8	51	180	2690	214	656	1960	132	56	e34	e11
2	1.4	6.0	45	200	2030	227	585	1640	128	55	e33	e11
3	1.5	6.0	71	323	1570	367	531	1140	125	55	e32	e10
4	1.5	7.1	564	587	1250	392	482	889	121	52	e28	e10
5	1.6	13	226	1350	1050	324	444	733	115	51	e25	e9.8
6	1.7	21	145	1410	914	293	535	627	110	48	e24	e9.7
7	1.8	22	116	9130	815	266	980	548	106	46	e23	e9.8
8	2.0	18	90	20800	743	590	1110	481	104	45	e22	e10
9	2.7	37	73	40100	663	23300	963	439	101	44	e21	e10
10	2.6	83	63	14700	591	10600	808	412	97	41	e20	e10
11	2.4	61	64	10100	536	9630	692	368	94	41	e21	e9.6
12	2.3	36	114	9840	492	5960	623	338	91	41	e20	e9.6
13	2.7	27	249	16800	496	6610	1060	402	88	e40	e19	e9.4
14	3.1	22	230	20700	516	17300	856	361	92	e40	e20	e9.4
15	2.9	26	495	6690	441	9210	780	437	105	e39	e19	e9.2
16	2.6	39	307	4090	393	4150	820	427	105	e40	e18	e9.2
17	2.6	52	221	2590	358	2560	684	372	95	e41	e18	e9.3
18	2.7	47	181	1790	335	2230	622	335	91	e39	e18	e9.4
19	2.9	41	161	1370	308	1800	553	305	88	e39	e17	e9.2
20	3.2	35	135	1120	285	4530	540	278	83	e38	e17	e9.1
21	3.2	30	114	989	266	4400	487	254	78	e36	e16	e9.0
22	3.2	27	97	1480	245	6060	439	238	74	e35	e16	e9.0
23	2.8	25	84	2750	235	6230	402	223	69	e35	e15	e8.9
24	3.8	24	121	6000	269	4660	371	206	65	e37	e15	e8.9
25	4.4	50	242	4120	252	3050	345	191	67	e38	e14	e8.8
26	4.5	198	169	3680	253	2090	318	178	64	e39	e14	e8.8
27	4.1	145	144	4180	241	1540	326	166	60	e39	e13	e8.6
28	4.8	98	412	3380	230	1200	339	e157	58	e38	e13	e8.6
29	5.0	78	351	2680	---	992	692	e148	57	e37	e13	e8.6
30	5.0	60	249	4330	---	843	670	e141	53	e36	e12	e8.4
31	5.0	---	197	3910	---	737	---	139	---	e35	e12	---
TOTAL	91.4	1339.9	5781	201369	18467	132355	18713	14533	2716	1296	602	282.3
MEAN	2.95	44.7	186	6496	660	4270	624	469	90.5	41.8	19.4	9.41
MAX	5.0	198	564	40100	2690	23300	1110	1960	132	56	34	11
MIN	1.4	5.8	45	180	230	214	318	139	53	35	12	8.4
AC-FT	181	2660	11470	399400	36630	262500	37120	28830	5390	2570	1190	560

e Estimated.

11468000 NAVARRO RIVER NEAR NAVARRO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	41.9	279	955	1677	1391	1081	495	135	50.3	20.3	11.1	10.3
MAX	367	2033	4396	6496	5522	4280	2517	499	199	46.7	26.8	32.6
(WY)	1958	1974	1965	1995	1958	1983	1982	1983	1993	1983	1983	1957
MIN	2.95	9.06	18.5	24.0	58.6	69.8	34.2	14.1	4.23	.62	.67	1.33
(WY)	1995	1991	1977	1991	1977	1988	1977	1977	1977	1977	1977	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	57980.2		397545.6			
ANNUAL MEAN	159		1089		509	
HIGHEST ANNUAL MEAN					1310	1983
LOWEST ANNUAL MEAN					25.0	1977
HIGHEST DAILY MEAN	5360	Feb 17	40100	Jan 9	45100	Jan 16 1974
LOWEST DAILY MEAN	1.4	Aug 31	1.4	Oct 1	.23	Jul 13 1977
ANNUAL SEVEN-DAY MINIMUM	1.4	Aug 29	1.6	Oct 1	.28	Jul 8 1977
INSTANTANEOUS PEAK FLOW			51400	Jan 9	64500	Dec 22 1955
INSTANTANEOUS PEAK STAGE			38.49	Jan 9	40.60	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	115000		788500		368700	
10 PERCENT EXCEEDS	252		2360		1190	
50 PERCENT EXCEEDS	42		105		59	
90 PERCENT EXCEEDS	1.9		8.5		7.6	

11468500 NOYO RIVER NEAR FORT BRAGG, CA

LOCATION.--Lat 39°25'42", long 123°44'12", in NE 1/4 sec.15, T.18 N., R.17 W., Mendocino County, Hydrologic Unit 18010108, on right bank 0.7 mi downstream from South Fork and 3.5 mi east of Fort Bragg.

DRAINAGE AREA.--106 mi^2.

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 11.73 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft^3/s, Mar. 29, 1974, gage height, 27.14 ft, from rating curve extended above 4,500 ft^3/s on basis of slope-conveyance study; minimum daily, 0.79 ft^3/s, Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0800	*12,200	*23.93	Mar. 9	1330	5,440	17.00
Jan. 13	2215	10,200	22.63	Mar. 14	1715	9,530	22.01
Jan. 26	1915	2,830	12.15	Mar. 20	1315	2,910	12.31

Minimum daily, 2.3 ft^3/s, Oct. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	6.5	33	94	1660	80	258	541	68	34	16	8.7
2	2.6	6.9	29	88	1430	87	231	600	67	34	16	8.7
3	2.5	6.5	37	83	1000	135	209	485	66	33	15	8.7
4	2.5	7.8	66	81	722	155	192	391	63	32	15	8.7
5	2.5	24	62	209	554	145	180	323	62	31	14	8.7
6	2.5	18	54	472	448	135	232	275	59	31	14	8.3
7	2.5	11	45	1080	377	124	518	237	57	29	14	8.3
8	2.5	8.1	38	3200	328	294	605	208	56	29	13	8.2
9	2.5	45	33	9290	280	3920	560	187	54	28	14	7.8
10	2.5	49	30	3850	244	2430	477	169	53	27	13	7.8
11	2.3	24	33	2200	219	2080	398	158	52	26	13	7.8
12	2.4	16	80	2860	200	1750	360	156	50	26	13	7.8
13	2.7	12	137	5190	207	2140	490	220	49	26	12	8.3
14	3.1	10	143	5680	197	6400	431	188	53	26	12	8.2
15	3.3	14	209	2670	174	3640	406	178	72	25	12	7.8
16	3.5	19	169	1690	156	1660	377	165	59	25	12	8.2
17	3.7	24	178	1110	145	1040	325	152	52	23	12	8.3
18	3.7	29	154	805	141	946	290	141	51	22	12	8.3
19	3.9	21	125	620	130	831	257	132	48	21	11	8.3
20	3.7	17	104	506	123	2070	238	124	46	22	11	8.2
21	3.7	16	86	420	117	1980	210	117	44	22	11	7.7
22	4.0	14	72	387	111	2400	190	113	43	22	11	7.4
23	4.0	13	63	488	105	2240	173	107	42	23	10	7.3
24	3.9	15	78	905	100	1620	161	101	40	23	10	7.0
25	4.0	83	85	915	95	1110	151	97	38	23	10	7.3
26	4.0	117	75	1540	91	798	142	88	37	23	10	7.4
27	4.0	79	74	1930	87	602	150	80	36	23	9.9	7.0
28	5.3	65	121	1410	83	478	141	78	35	21	10	6.6
29	5.6	52	119	1150	---	394	273	76	34	19	10	6.6
30	5.6	40	105	1770	---	334	297	72	34	17	9.9	6.6
31	5.7	---	92	1710	---	289	---	70	---	17	9.4	---
TOTAL	107.2	862.8	2729	54404	9524	42307	8922	6029	1520	783	375.2	236.0
MEAN	3.46	28.8	88.0	1755	340	1365	297	194	50.7	25.3	12.1	7.87
MAX	5.7	117	209	9290	1660	6400	605	600	72	34	16	8.7
MIN	2.3	6.5	29	81	83	80	141	70	34	17	9.4	6.6
AC-FT	213	1710	5410	107900	18890	83920	17700	11960	3010	1550	744	468

11468500 NOYO RIVER NEAR FORT BRAGG, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	17.3	121	397	639	525	451	212	76.2	33.7	13.8	7.59	6.34
MAX	166	750	2293	1890	2113	1406	877	377	170	32.0	17.7	12.7
(WY)	1963	1974	1965	1953	1958	1983	1963	1990	1993	1953	1953	1983
MIN	2.97	5.29	9.25	16.6	18.1	32.4	11.7	9.50	3.88	1.90	1.35	2.16
(WY)	1979	1960	1977	1977	1977	1988	1977	1977	1977	1977	1977	1970

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1952 - 1995	
ANNUAL TOTAL	27014.3		127789.2			
ANNUAL MEAN	74.0		350		207	
HIGHEST ANNUAL MEAN					484	1983
LOWEST ANNUAL MEAN					10.9	1977
HIGHEST DAILY MEAN	2020	Feb 18	9290	Jan 9	20500	Dec 22 1964
LOWEST DAILY MEAN	2.3	Sep 21	2.3	Oct 11	.79	Sep 8 1977
ANNUAL SEVEN-DAY MINIMUM	2.4	Sep 18	2.5	Oct 6	1.0	Aug 16 1977
INSTANTANEOUS PEAK FLOW			12200	Jan 9	26600	Mar 29 1974
INSTANTANEOUS PEAK STAGE			23.93	Jan 9	27.14	Mar 29 1974
ANNUAL RUNOFF (AC-FT)	53580		253500		150100	
10 PERCENT EXCEEDS	139		927		513	
50 PERCENT EXCEEDS	23		62		32	
90 PERCENT EXCEEDS	2.7		6.8		5.1	

11469000 MATTOLE RIVER NEAR PETROLIA, CA

LOCATION.--Lat 40°18'42", long 124°15'48", in SE 1/4 NW 1/4 sec.11, T.2 S., R.2 W., Humboldt County, Hydrologic Unit 18010107, on right bank 0.2 mi upstream from Clear Creek, 1.5 mi southeast of Petrolia, and 1.7 mi upstream from North Fork.

DRAINAGE AREA.--240 mi^2.

PERIOD OF RECORD.--October 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912-13. WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 40 ft above sea level, from topographic map. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi upstream at datum 7.48 ft higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 350 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft^3/s, Dec. 22, 1955, gage height, 29.60 ft, site and datum then in use, from rating curve extended above 26,000 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 17 ft^3/s, Sept. 5, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1200	*58,700	*24.48	Mar. 9	1130	32,000	18.38
Jan. 30	1100	20,700	15.07	Mar. 14	1115	31,900	18.37

Minimum daily, 21 ft^3/s, Oct. 4-13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	46	469	1700	13700	496	813	e1200	294	140	63	39
2	22	78	626	1570	e9000	595	708	e1100	286	139	59	40
3	22	76	493	1580	e8000	916	631	e1050	277	135	57	40
4	21	85	405	1540	e4000	1040	571	e1000	264	129	55	40
5	21	697	323	2550	e3400	938	e530	e980	259	117	55	40
6	21	237	306	3280	e2600	851	e600	967	246	123	55	40
7	21	109	291	14800	e2300	781	e1000	892	234	123	54	39
8	21	64	245	22500	e1900	2410	e5600	815	232	123	53	39
9	21	1460	215	45300	e1500	21100	e3400	771	222	123	52	39
10	21	602	201	22400	e1300	12300	e2800	758	211	120	52	38
11	21	170	547	18400	e1050	11900	e2490	723	209	120	53	38
12	21	87	1520	17700	e900	6650	e4770	720	203	117	53	38
13	21	57	1360	18800	e860	7200	e4000	1040	195	117	52	37
14	23	43	2070	19700	e900	23100	e2600	868	238	110	51	37
15	25	247	1960	9560	e840	10700	e2200	766	514	98	49	36
16	25	401	4420	5630	e830	4460	e1980	705	355	98	48	36
17	23	1060	4750	3450	792	2970	e1720	656	278	92	47	36
18	23	622	3200	2240	840	3220	e1600	604	257	92	47	36
19	23	294	2100	1590	798	3120	e1500	563	243	94	46	35
20	23	228	1470	1200	756	7840	e1300	533	220	93	45	35
21	23	183	1130	913	715	7390	e1200	506	202	89	43	33
22	22	128	916	1590	675	9860	e1100	484	190	89	42	33
23	22	98	760	1720	636	6930	e1000	451	181	89	41	33
24	22	208	972	1720	610	5080	e980	430	174	85	40	33
25	22	1950	882	1900	583	3570	e900	408	167	81	40	35
26	22	1330	738	2950	557	2580	e810	383	161	79	40	34
27	25	777	1280	3130	534	1920	e900	364	154	76	39	35
28	40	603	2670	5860	517	1500	e790	348	150	72	39	37
29	48	436	1720	5120	---	1230	e910	336	147	68	40	35
30	47	332	1290	15500	---	1040	e880	325	145	65	40	35
31	37	---	1120	14100	---	908	---	310	---	64	40	---
TOTAL	771	12708	40449	269993	61093	164595	50283	21056	6908	3160	1490	1101
MEAN	24.9	424	1305	8709	2182	5310	1676	679	230	102	48.1	36.7
MAX	48	1950	4750	45300	13700	23100	5600	1200	514	140	63	40
MIN	21	43	201	913	517	496	530	310	145	64	39	33
AC-FT	1530	25210	80230	535500	121200	326500	99740	41760	13700	6270	2960	2180

e Estimated.

11469000 MATTOLE RIVER NEAR PETROLIA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	244	1459	2847	3572	2987	2294	1205	547	213	83.3	51.3	62.6
MAX	1900	7159	8340	8928	10710	7929	5225	1842	1058	191	164	237
(WY)	1951	1974	1956	1970	1958	1983	1963	1960	1993	1993	1983	1977
MIN	23.8	41.8	39.7	135	243	187	166	151	68.9	31.3	22.9	22.0
(WY)	1988	1960	1977	1977	1977	1988	1988	1970	1977	1977	1977	1970

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1912 - 1995	
ANNUAL TOTAL	250623		633607			
ANNUAL MEAN	687		1736		1291	
HIGHEST ANNUAL MEAN					2642	1983
LOWEST ANNUAL MEAN					157	1977
HIGHEST DAILY MEAN	14600	Jan 24	45300	Jan 9	55200	Dec 22 1964
LOWEST DAILY MEAN	21	Oct 4	21	Oct 4	17	Sep 5 1977
ANNUAL SEVEN-DAY MINIMUM	21	Oct 4	21	Oct 4	17	Sep 5 1977
INSTANTANEOUS PEAK FLOW			58700	Jan 9	90400	Dec 22 1955
INSTANTANEOUS PEAK STAGE			24.48	Jan 9	29.60	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	497100		1257000		934900	
10 PERCENT EXCEEDS	1510		3740		3260	
50 PERCENT EXCEEDS	246		383		273	
90 PERCENT EXCEEDS	24		35		36	

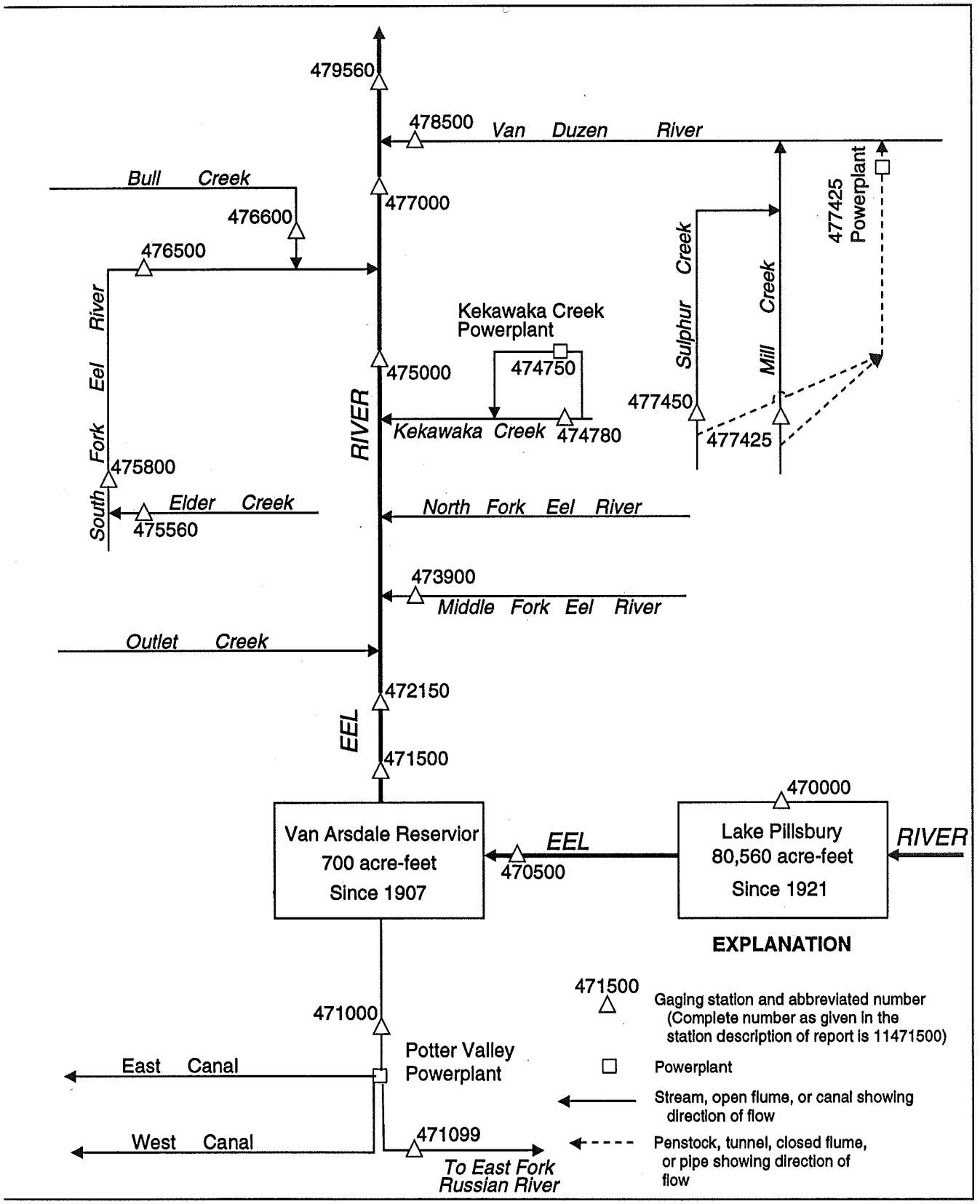


Figure 22. Diversions and storage in Eel River basin.

11470000 LAKE PILLSBURY NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'30", long 122°57'30", on line between secs.14 and 23, T.18 N., R.10 W., Lake County, Hydrologi Unit 18010103, Mendocino National Forest, at Scott Dam near right bank of Eel River, 0.3 mi downstream from Rice Fork, and 10.2 mi northeast of town of Potter Valley.
DRAINAGE AREA.--289 mi^2.

PERIOD OF RECORD.--October 1922 to September 1928 (daily gage heights only), October 1928 to current year. Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville."
GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 81.7 ft below sea level (river-profile survey) Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete overflow-type dam; storage began in December 1921. Beginning Oct. 1, 198 capacity based on 1984 resurvey. Usable capacity, 80,556 acre-ft between gage heights 1,822.4 ft, sill of outle gate, and 1,910.0 ft, top of spillway gates; dead storage, 87 acre-ft. Water is released down Eel River to Van Arsdale Reservoir, most of which is diverted through tunnel to Potter Valley Powerplant (station 11477100); part then used for irrigation and remainder flows into East Fork Russian River. Records given, including extremes, represent total contents at 2400 hours. See schematic diagram of Eel River basin.
COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 95,600 acre-ft, May 13, 16, 1925, gage height, 1,910.8 ft; maximu gage height, 1,911.84 ft, Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft, Dec. 9, 10, 1931, gage height, 1,822.5 ft.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 78,300 acre-ft, May 24, gage height, 1,908.96 ft; minimum, 23,700 acre-ft, Nov. 23-24, gage height, 1,876.17 ft.

Capacity table (elevation, in feet, and contents in acre-feet)
(Based on table provided by Pacific Gas & Electric Co., dated April 1984)

1,822.4	87	1,835	1,371	1,855	7,831	1,875	22,451	1,895	50,179
1,824	153	1,840	2,463	1,860	10,456	1,880	28,071	1,900	59,469
1,827	333	1,845	3,391	1,865	13,701	1,885	34,474	1,905	69,675
1,830	626	1,850	5,710	1,870	17,664	1,890	41,811	1,910	80,643

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31200	25300	25700	34500	64500	60000	61800	77300	78000	78000	75500	68900
2	31000	25100	25700	34700	63900	60300	61600	74900	78100	78000	75300	68700
3	30700	24900	28200	35100	63700	60800	61400	74200	78200	78000	75000	68500
4	30500	24900	29500	36000	63200	60500	61400	73700	78200	78000	74800	68300
5	30300	24900	29800	37800	62600	60400	61800	73400	78200	78000	74600	68100
6	30100	24800	30000	39800	61500	60300	64100	73400	78200	78000	74400	67800
7	29900	24700	29700	51100	61200	60300	65900	73600	78200	77900	74200	67600
8	29700	24600	29300	73400	61200	63300	65400	73600	78200	77900	74100	67400
9	29500	25000	28800	72100	60900	70100	64500	74100	78000	77800	73700	67200
10	29400	25100	28400	68300	60700	70300	63800	74800	78000	77800	73500	67000
11	29200	25000	28000	67300	60600	67400	63400	75300	77900	77700	73300	66700
12	29100	24900	27800	66800	60500	64900	63500	76200	77700	77600	73100	66500
13	28800	24700	27800	74300	60600	67100	63500	76500	77600	77600	72900	66200
14	28600	24500	28400	69200	60400	69500	64200	76000	77700	77500	72700	65900
15	28400	24500	28800	65700	60300	65700	65000	76200	78000	77300	72400	65700
16	28200	24400	29300	64000	60200	64100	65200	75900	78000	77300	72200	65500
17	28000	24400	29900	62900	60100	63000	66100	75700	78200	77100	72000	65200
18	27800	24200	30600	62300	60000	63300	67100	75900	78200	77500	71800	64900
19	27600	24100	31000	61800	60000	62800	68000	76300	78100	77400	71600	64700
20	27500	24000	31300	61400	59900	65800	69200	77100	78000	77300	71300	64500
21	27300	23900	31500	61100	59900	64300	70500	77800	78000	77200	71100	64200
22	27100	23800	31700	62400	60000	64400	71600	78200	78100	77100	70900	64000
23	26900	23700	31800	63200	60100	63700	72600	78200	78000	76900	70700	63700
24	26700	23700	32200	63400	60100	63100	73600	78300	77900	76800	70500	63500
25	26500	24800	32500	62800	60100	62700	74600	78100	77900	76600	70300	63200
26	26300	25100	32600	63500	60100	62500	75500	78000	78000	76500	70000	62900
27	26100	25400	33000	63500	60100	62400	76000	77900	78000	76300	70000	62700
28	26000	25700	33500	64400	60000	62300	75800	77800	78000	76100	69800	62500
29	25800	25800	33800	63600	---	62100	75500	77600	78000	76000	69600	62200
30	25600	25700	34100	65900	---	62000	74800	77600	78000	75900	69300	61900
31	25400	---	34300	64900	---	61900	---	77700	---	75600	69100	---
MAX	31200	25800	34300	74300	64500	70300	76000	78300	78200	78000	75500	68900
MIN	25400	23700	25700	34500	59900	60000	61400	73400	77600	75600	69100	61900
a	1877.71	1877.98	1884.87	1902.72	1900.29	1901.21	1907.40	1908.71	1908.84	1907.76	1904.73	1901.25
b	-6000	+300	+8600	+30600	-4900	+1900	+12900	+2900	+300	-2400	-6500	-7200

CAL YR 1994 MAX 57600 MIN 17000 b +12800
WTR YR 1995 MAX 78300 MIN 23700 b +36500
a Elevation in feet, at end of month.
b Change in contents, in acre-feet.

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'29", long 122°58'29", in SE 1/4 sec.15, T.18 N., R.10 W., Lake County, Hydrologic Unit 18010103, Mendocino National Forest, on left bank 0.4 mi upstream from Soda Creek, 0.7 mi downstream from Scott Dam, and 9.7 mi northeast of town of Potter Valley.

DRAINAGE AREA.--290 mi^2.

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as "South Eel River at Hullville," and October 1929 to September 1953, "at Hullville."

REVISED RECORDS.--WSP 1315-B: 1923(M), 1938(M). WSP 1395: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,740 ft above sea level, from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft higher.

REMARKS.--No estimated daily discharges. Flow regulated by Lake Pillsbury (station 11470000) 0.7 mi upstream. No diversion upstream from station. See schematic diagram of Eel River basin.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft^3/s, Dec. 22, 1964, gage height, 24.24 ft, from floodmarks, from rating curve extended above 37,000 ft^3/s; minimum daily, 0.1 ft^3/s, Sept. 8, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,300 ft^3/s, Jan. 9, gage height, 18.12 ft; minimum daily, 49 ft^3/s, Aug. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	104	161	117	4490	462	1650	4370	334	134	120	145
2	99	104	133	126	3710	519	1550	4090	336	119	122	150
3	157	106	118	126	2880	845	1440	2630	338	106	122	144
4	136	103	115	126	2360	885	1370	2120	340	109	122	144
5	90	103	115	126	2020	745	1120	1610	341	110	121	145
6	89	102	164	104	1720	637	1370	1410	339	110	119	144
7	92	101	363	111	1520	557	2810	1100	337	110	114	132
8	98	101	372	10000	1390	1020	3190	1110	336	110	117	134
9	92	104	376	24700	1260	14700	2760	860	336	109	121	134
10	90	102	380	12900	1140	11000	2290	634	336	113	122	135
11	100	102	382	8720	1040	9690	1830	650	336	114	121	135
12	91	102	383	8660	986	5720	1580	663	334	108	121	135
13	92	102	180	13400	946	5340	1710	969	334	109	121	135
14	100	101	103	16600	893	9840	1180	1220	336	113	121	132
15	100	103	102	7550	797	8030	962	1210	294	113	121	121
16	100	101	103	4160	723	4350	1100	1210	251	114	121	121
17	100	101	103	2850	664	3170	756	1030	252	114	121	125
18	99	100	103	2160	638	3100	537	873	252	114	121	133
19	99	100	103	1800	609	2750	592	670	252	112	121	132
20	99	99	94	1520	581	4560	396	419	253	111	122	132
21	99	98	93	1320	564	4640	177	427	214	110	121	132
22	99	98	106	1530	483	4010	192	562	186	112	121	132
23	100	82	115	2790	476	3620	214	789	194	118	121	130
24	100	81	117	3130	508	2960	220	790	195	118	121	129
25	100	83	116	2850	512	2610	227	790	172	118	121	126
26	100	81	87	2770	498	2370	230	746	145	120	121	127
27	101	82	55	3090	483	2210	520	649	147	120	121	127
28	102	81	51	3860	470	2100	1070	649	148	120	73	127
29	98	90	62	3700	---	2010	3400	646	135	120	49	127
30	102	128	64	5330	---	1890	2920	573	120	119	61	127
31	103	---	68	5210	---	1770	---	426	---	119	68	---
TOTAL	3127	2945	4887	151436	34341	118110	39363	35895	7923	3546	3509	3992
MEAN	101	98.2	158	4885	1226	3810	1312	1158	264	114	113	133
MAX	157	128	383	24700	4490	14700	3400	4370	341	134	122	150
MIN	89	81	51	104	470	462	177	419	120	106	49	121
AC-FT	6200	5840	9690	300400	68120	234300	78080	71200	15720	7030	6960	7920

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	221	279	730	1248	1375	1048	668	326	195	179	181	209
MAX	361	1851	4945	5684	6624	4536	3357	1184	438	329	334	335
(WY)	1963	1974	1965	1970	1986	1983	1982	1983	1993	1959	1959	1961
MIN	19.1	13.3	27.6	35.8	7.27	11.8	15.4	34.4	50.3	64.5	65.0	34.4
(WY)	1978	1934	1960	1944	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1923 - 1995	
ANNUAL TOTAL	54024		409074			
ANNUAL MEAN	148		1121		551	
HIGHEST ANNUAL MEAN					1443	1983
LOWEST ANNUAL MEAN					85.4	1977
HIGHEST DAILY MEAN	400	Mar 17	24700	Jan 9	45300	Dec 22 1964
LOWEST DAILY MEAN	51	Aug 31	49	Aug 29	.10	Sep 8 1924
ANNUAL SEVEN-DAY MINIMUM	72	Dec 25	72	Dec 25	.43	Sep 6 1924
INSTANTANEOUS PEAK FLOW			30300	Jan 9	56300	Dec 22 1964
INSTANTANEOUS PEAK STAGE			18.12	Jan 9	24.24	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	107200		811400		399400	
10 PERCENT EXCEEDS	242		2940		1090	
50 PERCENT EXCEEDS	107		145		232	
90 PERCENT EXCEEDS	91		99		88	

11471000 POTTER VALLEY POWERHOUSE INTAKE NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°22'00", long 123°07'35", in SW 1/4 SW 1/4 sec.31, T.18 N., R.11 W., Mendocino County, Hydrologic Unit 18010103, in penstock of powerhouse of Pacific Gas & Electric Co., 1.5 mi southwest of Van Arsdale Dam, and 3.2 mi northwest of town of Potter Valley.

PERIOD OF RECORD.--December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as Snow Mountain Water and Power Co.'s Tailrace near Potter Valley. October 1931 to September 1984, published as Potter Valley Powerhouse Tailrace near Potter Valley.

REVISED RECORDS.--WSP 1395: 1950. WDR CA-89-2: 1988.

GAGE.--Acoustic flowmeter in penstock of powerplant. Elevation of gage is 1,440 ft above sea level, from topographic map. Prior to Dec. 11, 1985, water-stage recorder and Parshall flume. See WSP 1929 for history of changes prior to Apr. 12, 1950.

REMARKS.--No estimated daily discharges. Water is diverted from Eel River above Van Arsdale Dam. After passing through powerhouse, part is used for irrigation in Potter Valley and remainder flows into East Fork Russian River. See schematic diagram of Eel River basin.

COOPERATION.--Records collected by Pacific Gas & Electric Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD (1922 TO CURRENT YEAR).--Maximum daily discharge, 351 ft^3/s, Oct. 31, 1982; no flow at times in several years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	95	.00	1.5	110	95	74	110	106	127	126	61
2	97	95	77	76	110	95	76	110	106	95	126	124
3	100	97	71	82	112	98	76	121	107	127	126	124
4	79	97	123	80	113	98	74	126	104	91	126	124
5	88	97	103	92	123	98	.00	127	104	91	127	123
6	88	97	80	92	107	3.0	.00	127	104	126	126	123
7	88	97	83	92	121	35	.00	126	103	126	124	123
8	88	97	51	76	118	7.6	123	127	104	126	124	123
9	86	97	50	1.5	123	6.1	124	126	107	126	124	123
10	86	126	51	1.5	121	.00	123	104	104	126	124	123
11	88	109	51	.00	121	.00	123	104	106	123	124	124
12	86	103	53	.00	121	.00	124	109	104	124	124	124
13	88	101	76	1.5	115	.00	123	109	104	124	124	123
14	86	98	76	1.5	115	.00	123	101	106	124	127	123
15	95	98	91	.00	89	.00	123	113	106	123	127	123
16	98	98	80	.00	.00	.00	123	113	103	126	123	104
17	97	101	79	1.5	.00	.00	104	113	104	126	118	107
18	97	123	80	.00	1.5	76	51	116	104	123	118	126
19	95	106	80	.00	86	76	119	110	104	123	118	126
20	97	106	79	.00	85	74	119	89	103	110	123	121
21	97	103	79	85	85	74	116	1.5	104	124	123	121
22	97	103	74	113	85	76	118	79	95	126	124	119
23	97	100	76	113	118	79	116	97	94	115	124	119
24	97	80	73	113	110	77	104	97	95	124	124	119
25	97	82	77	113	109	76	110	101	127	124	123	123
26	97	124	74	113	109	76	112	103	127	126	121	124
27	97	126	.00	113	109	76	101	103	126	124	126	124
28	100	103	.00	113	101	76	112	103	123	124	124	123
29	89	.00	.00	113	---	76	110	103	126	124	57	124
30	95	.00	.00	113	---	76	109	103	129	127	61	124
31	95	---	.00	112	---	76	---	103	---	103	61	---
TOTAL	2882	2859.00	1887.00	1813.00	2717.50	1599.70	2910.00	3274.5	3239	3728	3647	3592
MEAN	93.0	95.3	60.9	58.5	97.1	51.6	97.0	106	108	120	118	120
MAX	100	126	123	113	123	98	124	127	129	127	127	126
MIN	79	.00	.00	.00	.00	.00	.00	1.5	94	91	57	61
AC-FT	5720	5670	3740	3600	5390	3170	5770	6490	6420	7390	7230	7120

11471000 POTTER VALLEY POWERHOUSE INTAKE NEAR POTTER VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	187	193	209	224	242	243	231	213	177	159	155	178
MAX	321	311	311	316	325	324	326	330	325	314	320	314
(WY)	1991	1963	1982	1982	1982	1993	1951	1982	1982	1953	1953	1967
MIN	.000	9.70	3.10	15.4	11.7	.000	18.9	39.0	38.5	11.0	2.28	2.67
(WY)	1960	1934	1934	1944	1977	1950	1977	1977	1920	1920	1920	1920

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1910 - 1995	
ANNUAL TOTAL	44387.00		34148.70			
ANNUAL MEAN	122		93.6		201	
HIGHEST ANNUAL MEAN					305	1967
LOWEST ANNUAL MEAN					84.0	1920
HIGHEST DAILY MEAN	313	Feb 20	129	Jun 30	351	Oct 31 1982
LOWEST DAILY MEAN	.00	Nov 29	.00	Nov 29	.00	Jul 31 1910
ANNUAL SEVEN-DAY MINIMUM	22	Dec 25	.00	Mar 10	.00	Aug 7 1913
ANNUAL RUNOFF (AC-FT)	88040		67730		145700	
10 PERCENT EXCEEDS	243		125		311	
50 PERCENT EXCEEDS	97		104		215	
90 PERCENT EXCEEDS	80		2.4		57	

11471099 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°21'42", long 123°07'38", in SW 1/4 NW 1/4 sec.6, T.17 N., R.11 W., Mendocino County, Hydrologic Unit 18010103, 100 ft downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi southwest of Van Arsdale Dam, and 2.9 mi northwest of town of Potter Valley.

PERIOD OF RECORD.--October 1987 to current year. October 1931 to September 1984, record published for Potter Valley Powerhouse Intake (station 11471000) not equivalent because diversion for irrigation is included.

GAGE.--Discharge computed as difference between Potter Valley Powerhouse Intake (station 11471000) and the combined flows of Potter Valley Irrigation District East Canal (station 11471105) and Potter Valley Irrigation District West Canal (station 11471106). Elevation of tailrace is 1,020 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Flow represents inflow into the Russian River basin after passing through powerhouse. See schematic diagrams of Eel and Russian River basins.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 326 ft^3/s, Mar. 16, 1993; no flow Apr. 4, 5, and July 18-20, 1990; Nov. 15-19, 1993 and many days in 1995.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	94	.00	1.3	107	95	74	109	93	100	88	36
2	82	94	75	75	107	95	76	110	92	74	89	91
3	80	96	69	81	109	98	76	120	94	100	89	95
4	61	96	122	79	110	98	74	126	87	88	85	104
5	71	96	102	91	119	98	.00	127	79	79	85	103
6	71	96	79	91	104	2.8	.00	127	80	94	84	103
7	75	96	83	91	118	34	.00	126	85	94	82	107
8	81	95	51	73	115	7.1	123	127	95	91	82	99
9	80	94	50	.30	120	4.0	124	126	101	89	82	93
10	80	125	51	1.1	118	.00	123	103	90	89	84	98
11	82	108	50	.00	118	.00	123	103	95	90	88	99
12	74	102	52	.00	118	.00	124	108	89	95	87	99
13	76	100	75	.00	112	.00	123	108	83	97	86	96
14	76	97	75	.50	114	.00	123	100	87	95	86	92
15	86	97	91	.00	89	.00	123	112	92	87	89	98
16	90	96	80	.00	.00	.00	123	112	90	87	91	79
17	91	97	79	1.3	.00	.00	104	112	95	86	89	80
18	91	119	80	.00	1.3	76	50	115	101	84	86	99
19	89	103	80	.00	86	76	119	109	101	89	85	100
20	86	103	79	.00	85	73	119	88	90	76	89	96
21	77	99	79	83	85	74	116	1.1	86	90	89	93
22	85	100	74	113	85	76	118	78	78	90	93	90
23	85	98	76	113	118	79	116	97	90	74	93	83
24	80	77	73	113	110	77	104	97	78	82	91	85
25	81	79	77	113	109	76	110	101	88	83	85	104
26	88	122	74	112	109	75	112	103	87	85	80	101
27	91	125	.00	113	109	76	101	103	84	82	93	87
28	99	103	.00	113	101	76	112	103	84	83	102	84
29	88	.00	.00	113	---	76	110	103	90	85	46	87
30	94	.00	.00	111	---	75	109	103	98	89	46	85
31	94	---	.00	111	---	76	---	100	---	63	45	---
TOTAL	2567	2807.00	1876.00	1793.50	2676.30	1592.90	2909.00	3257.1	2682	2690	2589	2766
MEAN	82.8	93.6	60.5	57.9	95.6	51.4	97.0	105	89.4	86.8	83.5	92.2
MAX	99	125	122	113	120	98	124	127	101	100	102	107
MIN	61	.00	.00	.00	.00	.00	.00	1.1	78	63	45	36
AC-FT	5090	5570	3720	3560	5310	3160	5770	6460	5320	5340	5140	5490

11471099 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	191	163	165	185	212	236	189	168	137	102	97.8	137
MAX	311	245	292	291	300	323	320	316	291	160	117	282
(WY)	1991	1991	1989	1989	1990	1993	1993	1993	1993	1993	1994	1990
MIN	79.3	90.1	60.5	35.8	45.0	51.4	53.7	97.0	59.0	60.1	81.5	66.4
(WY)	1989	1988	1995	1991	1991	1995	1990	1988	1994	1994	1988	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1988 - 1995	
ANNUAL TOTAL	39491.00		30205.80			
ANNUAL MEAN	108		82.8		165	
HIGHEST ANNUAL MEAN					236	1993
LOWEST ANNUAL MEAN					82.8	1995
HIGHEST DAILY MEAN	312	Feb 23	127	May 5	326	Mar 16 1993
LOWEST DAILY MEAN	.00	Nov 29	.00	Nov 29	.00	Apr 4 1990
ANNUAL SEVEN-DAY MINIMUM	22	Dec 25	.00	Mar 10	.00	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	78330		59910		119500	
10 PERCENT EXCEEDS	241		113		314	
50 PERCENT EXCEEDS	90		89		120	
90 PERCENT EXCEEDS	53		2.2		67	

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°23'19", long 123°06'54", in NE 1/4 sec.30, T.18 N., R.11 W, Mendocino County, Hydrologic Unit 18010103, on left bank 1,000 ft downstream from Van Arsdale Dam and 4.6 mi north of town of Potter Valley.

DRAINAGE AREA.--349 mi^2.

PERIOD OF RECORD.--November 1909 to September 1922 (combined monthly discharge only, of Eel River at this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley), October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Van Arsdale Dam, near Potter Valley.

REVISED RECORDS.--WSP 1315-B: 1913, 1920-23, 1925-27. WSP 1395: 1923(M), 1938.

GAGE.--Water-stage recorder. Elevation of gage is 1,400 ft above sea level, from topographic map. Nov. 18, 1909, to Mar. 3, 1927, recorder in reservoir 800 ft upstream from Van Arsdale Dam at different datum. Oct. 1, 1927, to Feb. 28, 1937, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Flow regulated by Lake Pillsbury (station 11470000) 11 mi upstream. Low flows may be further regulated at Van Arsdale Dam by calibrated gates in dam and fish ladder. Water is diverted from Van Arsdale Reservoir through tunnel to Potter Valley Powerhouse Intake (station 11471000), after which part is used for irrigation and remainder flows into East Fork Russian River (see station 11471099). Records given represent only flow in the Eel River. See schematic diagram of Eel River basin.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,100 ft^3/s, Dec. 22, 1964, gage height, 33.9 ft from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,800 ft^3/s, Jan. 9, gage height, 27.19 ft; minimum daily, 6.7 ft^3/s, Oct. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	13	129	126	5710	435	1750	5260	277	15	9.5	8.3
2	7.2	12	91	97	4680	497	1600	5130	274	28	10	8.3
3	21	11	159	112	3420	828	1450	2870	274	11	10	8.3
4	111	15	162	176	2590	786	1370	2290	274	33	9.3	8.3
5	7.2	16	84	317	2070	681	1170	1630	273	47	7.9	8.3
6	7.2	16	87	321	1730	580	1520	1440	272	9.8	7.9	8.3
7	7.1	16	257	1430	1490	539	3300	1010	270	9.8	7.9	8.3
8	7.3	13	289	10600	1270	1090	3780	996	264	9.8	7.8	8.3
9	7.3	43	287	24700	1100	14000	3120	1060	263	9.7	7.8	8.3
10	7.2	11	289	13300	952	11400	2410	569	262	13	7.9	8.3
11	7.2	11	300	9180	843	10500	1920	573	260	11	8.0	8.3
12	7.2	11	311	8950	769	7610	1630	581	258	11	8.0	8.3
13	7.0	11	199	12500	803	7300	1830	851	257	8.7	8.0	8.2
14	7.3	11	142	16600	783	11900	1310	1100	281	8.9	7.9	8.3
15	7.2	11	128	8710	748	9990	917	1160	288	8.9	7.9	8.0
16	7.1	11	131	5130	701	5910	1050	1110	208	8.8	8.0	18
17	7.2	11	128	3660	661	4020	857	958	206	8.8	8.6	13
18	7.2	11	136	2830	599	3750	573	739	207	8.9	8.0	9.7
19	7.2	11	108	2190	531	3170	552	647	201	16	8.0	14
20	7.2	11	85	1820	510	5700	475	413	199	8.9	7.9	20
21	7.1	11	71	1430	506	5990	242	452	176	15	7.9	16
22	7.1	11	72	1540	443	5310	233	459	132	8.8	7.9	16
23	7.2	11	74	3380	414	4710	246	650	147	8.8	7.9	16
24	7.2	12	120	4030	440	3660	248	643	89	8.8	8.0	13
25	6.7	144	105	3660	441	3060	241	653	96	8.8	8.0	11
26	7.2	23	119	3540	427	2680	238	616	46	8.8	8.0	8.4
27	17	11	95	4080	421	2440	383	524	47	9.1	8.0	11
28	12	63	102	5040	416	2280	847	519	45	8.6	8.0	14
29	10	97	101	4780	---	2170	3790	514	37	8.0	7.8	10
30	10	97	95	6690	---	2030	3690	479	9.6	7.9	7.9	10
31	10	---	96	6650	---	1890	---	379	---	8.9	8.2	---
TOTAL	363.2	756	4552	167569	35468	136906	42742	36275	5892.6	387.5	253.9	324.2
MEAN	11.7	25.2	147	5405	1267	4416	1425	1170	196	12.5	8.19	10.8
MAX	111	144	311	24700	5710	14000	3790	5260	288	47	10	20
MIN	6.7	11	71	97	414	435	233	379	9.6	7.9	7.8	8.0
AC-FT	720	1500	9030	332400	70350	271600	84780	71950	11690	769	504	643

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	12.0	131	696	1305	1449	1036	563	162	23.7	5.08	5.53	5.26
MAX	153	2389	5249	6293	8904	5492	3863	1174	233	13.4	54.1	27.9
(WY)	1963	1974	1965	1970	1986	1983	1982	1983	1993	1990	1980	1959
MIN	.86	1.30	1.78	2.00	3.62	2.00	2.00	2.00	1.07	1.06	1.09	1.10
(WY)	1953	1953	1937	1924	1977	1924	1924	1924	1931	1931	1931	1931

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1923 - 1995	
ANNUAL TOTAL	21224.6		431489.4			
ANNUAL MEAN	58.1		1182		440	
HIGHEST ANNUAL MEAN					1546	1983
LOWEST ANNUAL MEAN					3.46	1977
HIGHEST DAILY MEAN	403	Feb 17	24700	Jan 9	49500	Dec 22 1964
LOWEST DAILY MEAN	6.3	Jun 1	6.7	Oct 25	.00	Sep 13 1953
ANNUAL SEVEN-DAY MINIMUM	6.6	Jun 1	7.1	Oct 19	.16	Dec 5 1965
INSTANTANEOUS PEAK FLOW			28800	Jan 9	64100	Dec 22 1964
INSTANTANEOUS PEAK STAGE			27.19	Jan 9	33.90	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	42100		855900		318900	
10 PERCENT EXCEEDS	126		3670		1050	
50 PERCENT EXCEEDS	18		132		8.9	
90 PERCENT EXCEEDS	7.2		7.9		2.0	

11472150 EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°37'30", long 123°20'25", in SW 1/4 SW 1/4 sec.32, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010103, on left bank 1,100 ft upstream from Outlet Creek and 6.3 mi south of Dos Rios.

DRAINAGE AREA.--528 mi^2.

PERIOD OF RECORD.--October 1966 to December 1994 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,001.28 ft above sea level.

REMARKS.--No estimated daily discharge. Records fair. Flow partly regulated by Lake Pillsbury (station 11470000) 40 mi upstream and by diversion through Potter Valley Powerhouse Intake (station 11471000). See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,100 ft^3/s, Feb. 17, 1986, gage height, 35.54 ft, from rating curve extended above 26,000 ft^3/s on basis of slope-area measurement at gage height 33.64 ft; no flow for many days in 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 45.52 ft, from information by local resident, discharge, 100,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October 1994 to December 1994, 1,690 ft^3/s, Dec. 14, gage height, 5.15 ft; minimum daily during period, 6.7 ft^3/s, Oct. 1-4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	8.2	204	---	---	---	---	---	---	---	---	---
2	6.7	8.6	188	---	---	---	---	---	---	---	---	---
3	6.7	8.6	438	---	---	---	---	---	---	---	---	---
4	6.7	11	899	---	---	---	---	---	---	---	---	---
5	86	25	321	---	---	---	---	---	---	---	---	---
6	34	30	235	---	---	---	---	---	---	---	---	---
7	15	27	251	---	---	---	---	---	---	---	---	---
8	10	21	388	---	---	---	---	---	---	---	---	---
9	8.7	63	381	---	---	---	---	---	---	---	---	---
10	8.8	91	373	---	---	---	---	---	---	---	---	---
11	15	53	402	---	---	---	---	---	---	---	---	---
12	11	25	795	---	---	---	---	---	---	---	---	---
13	7.7	18	789	---	---	---	---	---	---	---	---	---
14	14	15	889	---	---	---	---	---	---	---	---	---
15	9.5	19	1020	---	---	---	---	---	---	---	---	---
16	7.2	34	921	---	---	---	---	---	---	---	---	---
17	7.6	60	764	---	---	---	---	---	---	---	---	---
18	7.6	61	659	---	---	---	---	---	---	---	---	---
19	7.4	44	518	---	---	---	---	---	---	---	---	---
20	7.4	33	366	---	---	---	---	---	---	---	---	---
21	7.4	27	281	---	---	---	---	---	---	---	---	---
22	7.4	24	236	---	---	---	---	---	---	---	---	---
23	7.0	22	215	---	---	---	---	---	---	---	---	---
24	6.9	22	345	---	---	---	---	---	---	---	---	---
25	6.9	318	413	---	---	---	---	---	---	---	---	---
26	6.9	365	294	---	---	---	---	---	---	---	---	---
27	6.9	185	300	---	---	---	---	---	---	---	---	---
28	6.9	186	476	---	---	---	---	---	---	---	---	---
29	6.9	229	381	---	---	---	---	---	---	---	---	---
30	12	192	320	---	---	---	---	---	---	---	---	---
31	10	---	288	---	---	---	---	---	---	---	---	---
TOTAL	368.9	2225.4	14350	---	---	---	---	---	---	---	---	---
MEAN	11.9	74.2	463	---	---	---	---	---	---	---	---	---
MAX	86	365	1020	---	---	---	---	---	---	---	---	---
MIN	6.7	8.2	188	---	---	---	---	---	---	---	---	---
AC-FT	732	4410	28460	---	---	---	---	---	---	---	---	---

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1994, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	26.9	528	1421	2726	2374	1992	836	261	75.8	16.4	10.6	9.54
MAX	102	4033	4854	10530	11430	6998	5330	1423	666	65.5	57.3	22.0
(WY)	1980	1974	1982	1970	1986	1983	1982	1983	1993	1993	1980	1986
MIN	3.72	10.4	8.76	26.4	34.1	82.0	21.2	19.2	5.28	.080	.031	3.27
(WY)	1967	1979	1977	1977	1977	1977	1977	1977	1977	1977	1977	1970

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		WATER YEARS 1967 - 1994	
ANNUAL TOTAL	80529.6			
ANNUAL MEAN	221		850	
HIGHEST ANNUAL MEAN			2221	1983
LOWEST ANNUAL MEAN			18.4	1977
HIGHEST DAILY MEAN	3440	Feb 17	62900	Feb 17 1986
LOWEST DAILY MEAN	5.5	Aug 18	.00	Jul 7 1977
ANNUAL SEVEN-DAY MINIMUM	5.9	Aug 17	.00	Jul 7 1977
INSTANTANEOUS PEAK FLOW			70100	Feb 17 1986
INSTANTANEOUS PEAK STAGE			35.54	Feb 17 1986
ANNUAL RUNOFF (AC-FT)	159700		616100	
10 PERCENT EXCEEDS	506		2160	
50 PERCENT EXCEEDS	84		57	
90 PERCENT EXCEEDS	6.7		6.5	

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°42'23", long 123°19'27", in NE 1/4 SE 1/4 sec.5, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010104, on right bank 0.6 mi upstream from Eastman Creek, 1.7 mi southeast of Dos Rios, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--745 mi^2.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 901.58 ft above sea level.

REMARKS.--Records poor. No regulation or diversion upstream from station. See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,100 ft^3/s, Feb. 17, 1986, gage height, 27.41 ft, from rating curve extended above 52,000 ft^3/s; minimum daily, 0.39 ft^3/s, Sept. 1, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	unknown	*65,000	*24.03	Mar. 9	1330	49,100	21.76
Jan. 14	unknown	57,800	23.05				

Minimum daily, 0.91 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.91	13	e465	e702	e14000	e922	3230	10900	1290	e488	87	e29
2	.92	17	e579	e795	e9980	e965	3250	6820	1220	e455	81	e28
3	1.2	18	e651	e672	e6500	e1820	3220	4760	1150	e416	77	e27
4	1.4	19	e1650	e767	e4980	e2160	3210	3890	1080	e400	72	e26
5	2.0	25	e936	e1720	e4120	e1620	3250	3390	1000	e357	70	e26
6	1.8	50	e627	e2900	e3500	e1340	6640	3030	895	e328	e63	e25
7	2.0	e76	e552	e7120	e3020	e1180	10200	2740	817	e332	e59	e25
8	1.5	e92	e471	e18400	e2680	e1820	7480	2530	760	e303	e57	e24
9	2.3	e132	e441	e56000	e2420	e24600	5360	2450	712	e280	e55	e23
10	3.0	e212	e399	e30000	e2240	21200	4190	2410	684	e265	e55	e22
11	3.4	e282	e408	e21700	e2040	16600	3650	2230	666	e254	e55	e22
12	3.6	e212	e771	e22100	e1840	8940	3410	2150	637	e246	e52	e22
13	3.9	e126	e1090	e24200	e1830	9600	5050	2430	602	e266	e51	e21
14	3.5	e82	e885	e33200	e1840	23600	3890	2140	620	e314	e49	e21
15	3.8	e64	e1500	e18500	e1580	14100	3360	2200	1120	262	e49	e21
16	4.9	e97	e1600	e9940	e1420	7510	3060	2160	1180	236	e48	e20
17	5.7	e309	e1940	e6620	e1320	5110	2790	2090	985	215	e48	e20
18	6.4	e369	e1760	e5020	e1320	6350	2680	2110	1050	199	e47	e20
19	6.7	e218	e1610	e4080	e1280	5130	2420	2120	994	204	e46	e20
20	6.7	e147	e1060	e3420	e1200	12800	2490	2100	914	208	e46	e19
21	6.7	e151	e819	e2920	e1160	8850	2300	2060	868	193	e44	e19
22	6.8	e147	e666	e2750	e1140	8340	2180	1960	844	205	e44	e19
23	7.4	e128	e579	e4350	e1090	6680	2090	2080	825	177	e40	e18
24	7.9	e113	e648	e4620	e1060	5170	2300	1930	806	153	e38	e18
25	7.9	e885	e800	e4250	e1040	4450	2480	1850	785	135	e36	e18
26	8.3	e1210	e600	e4500	e998	4040	2430	1730	753	116	e34	e17
27	8.6	e642	e540	e5620	e960	3730	2590	1650	733	104	e33	e17
28	9.0	e753	e812	e6100	e940	3590	2600	1540	693	98	e32	e17
29	9.3	e609	e810	e6220	---	3470	7400	1470	e549	92	e31	e17
30	10	e468	e648	e11800	---	3330	7550	1400	e485	87	e30	e16
31	11	---	e565	e12800	---	3270	---	1340	---	82	e29	---
TOTAL	158.53	7666	26882	333786	77498	222287	116750	83660	25717	7470	1558	637
MEAN	5.11	256	867	10770	2768	7171	3892	2699	857	241	50.3	21.2
MAX	11	1210	1940	56000	14000	24600	10200	10900	1290	488	87	29
MIN	.91	13	399	672	940	922	2090	1340	485	82	29	16
AC-FT	314	15210	53320	662100	153700	440900	231600	165900	51010	14820	3090	1260

e Estimated.

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	106	1216	2351	4099	3360	3426	2049	1216	393	80.4	24.8	24.0
MAX	475	6823	7270	13540	12870	8622	6632	3852	1744	262	62.3	172
(WY)	1980	1974	1984	1970	1986	1983	1982	1983	1993	1993	1993	1986
MIN	5.11	28.5	30.5	94.3	172	384	333	241	82.5	13.2	4.33	1.04
(WY)	1995	1991	1977	1977	1977	1977	1977	1977	1977	1977	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	203837.19		904069.53			
ANNUAL MEAN	558		2477		1522	
HIGHEST ANNUAL MEAN					3351	1983
LOWEST ANNUAL MEAN					121	1977
HIGHEST DAILY MEAN	5670	Jan 23	56000	Jan 9	74000	Feb 17 1986
LOWEST DAILY MEAN	.39	Sep 1	.91	Oct 1	.39	Sep 1 1994
ANNUAL SEVEN-DAY MINIMUM	.42	Aug 28	1.5	Oct 1	.42	Aug 28 1994
INSTANTANEOUS PEAK FLOW			65000	Jan 9	93100	Feb 17 1986
INSTANTANEOUS PEAK STAGE			24.03	Jan 9	27.41	Feb 17 1986
ANNUAL RUNOFF (AC-FT)	404300		1793000		1102000	
10 PERCENT EXCEEDS	1590		6270		3720	
50 PERCENT EXCEEDS	327		771		339	
90 PERCENT EXCEEDS	1.3		17		15	

11474780 KEKAWAKA CREEK BELOW KEKAWAKA CREEK POWERHOUSE DIVERSION, NEAR ZENIA, CA

LOCATION.--Lat 40°06'37", long 123°27'59", in SW 1/4 SE 1/4 sec.14, T.4 S., R.6 E., Trinity County, Hydrologic Unit 18010105, on left bank approximately 200 ft downstream from diversion dam, 3.6 mi upstream from confluence with Eel River, and 6.7 mi south of Zenia.

DRAINAGE AREA.--20.7 mi^2.

PERIOD OF RECORD.--January 1990 to current year.

GAGE.--Water-stage recorder, and 120° V-notch weir. Elevation of gage is 1,480 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Water is diverted from creek upstream from gage to Kekawaka Creek Powerplant (station 11474750). See station 11474781 for records of combined discharge of creek and powerplant. See schematic diagram of Eel River basin.

COOPERATION.--Records provided by STS Hydro Power Ltd., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Creek only, maximum discharge, 1,910 ft^3/s, Jan. 9, 1995, gage height, 8.80 ft; no flow, Sept. 3-13, 1992.
Combined flow: Maximum discharge, 1,910 ft^3/s, Jan. 9, 1995; no flow, Sept. 3-13, 1992.

EXTREMES FOR CURRENT YEAR.--Creek only, maximum discharge, 1,910 ft^3/s, Jan. 9, gage height, 8.80 ft; minimum daily, .10 ft^3/s, Oct. 1.
Combined flow: Maximum discharge, 1,910 ft^3/s, Jan. 9; minimum daily, 0.10 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	1.5	4.0	3.7	447	3.5	28	158	3.3	5.6	1.9	1.2
2	.30	1.4	4.1	3.6	236	3.6	14	92	3.3	5.4	1.8	1.2
3	.20	1.0	16	3.6	138	33	8.6	45	3.3	5.1	1.8	1.3
4	.20	1.3	4.8	3.7	82	6.9	55	20	3.3	5.0	1.8	1.3
5	.20	2.8	3.9	123	43	4.6	34	11	3.3	4.7	1.7	1.3
6	.20	1.8	4.1	124	16	4.1	97	7.1	3.3	4.5	1.7	1.2
7	.30	1.5	4.1	466	6.4	3.9	158	4.9	3.3	4.4	1.8	1.2
8	.40	1.4	3.9	951	5.9	116	178	3.7	3.3	4.4	1.8	1.1
9	.30	8.7	3.8	1370	31	e900	136	3.6	3.3	4.5	1.6	1.0
10	.30	5.5	3.8	557	3.5	e700	86	3.7	3.4	4.4	1.6	1.0
11	.30	2.9	3.8	480	3.7	e458	48	13	3.4	4.3	1.9	1.0
12	.40	2.2	3.9	410	3.7	e327	75	4.2	3.3	4.8	1.8	.90
13	.50	1.7	3.9	622	4.6	e227	143	4.4	3.3	4.6	1.6	.90
14	.60	1.8	7.2	553	3.9	e870	73	3.7	3.4	4.2	1.5	.90
15	.60	3.3	3.9	339	3.6	408	52	3.6	3.5	3.8	1.5	.90
16	.60	8.0	18	188	3.5	166	32	3.4	3.4	3.5	1.5	1.1
17	.60	43	5.9	116	3.6	100	17	3.6	3.4	3.2	1.6	1.1
18	.60	24	14	66	3.6	104	12	3.5	3.4	3.5	1.6	1.0
19	.60	9.4	4.3	35	3.6	63	7.6	3.4	3.4	3.6	1.5	.90
20	.60	22	3.9	12	11	318	9.7	3.4	3.3	3.2	1.3	.80
21	.60	21	3.7	20	3.4	218	6.1	3.4	3.3	3.1	1.2	.70
22	.60	7.3	3.6	82	3.5	195	4.5	3.4	3.3	3.2	1.2	.70
23	.60	3.8	3.6	116	3.5	154	4.1	3.3	3.3	3.1	1.2	.70
24	.60	3.6	3.7	102	3.5	125	3.8	3.3	3.3	3.0	1.3	.80
25	.60	37	3.7	66	3.5	120	3.5	3.3	3.3	3.2	1.4	1.0
26	.60	3.7	3.6	121	3.5	118	3.6	3.4	3.3	3.2	1.3	1.2
27	.70	4.2	3.7	117	5.0	112	13	3.4	5.1	3.0	1.3	1.3
28	1.3	4.4	3.7	139	6.6	103	5.0	3.3	6.1	2.5	1.3	1.3
29	1.0	4.1	3.6	123	---	84	146	3.4	5.8	2.3	1.3	1.3
30	.90	4.1	3.6	378	---	60	88	3.4	5.7	2.4	1.3	1.2
31	.80	---	3.6	420	---	39	---	3.3	---	2.1	1.3	---
TOTAL	16.20	238.4	161.4	8110.6	1086.1	6144.6	1541.5	432.1	109.4	117.8	47.4	31.50
MEAN	.52	7.95	5.21	262	38.8	198	51.4	13.9	3.65	3.80	1.53	1.05
MAX	1.3	43	18	1370	447	900	178	158	6.1	5.6	1.9	1.3
MIN	.10	1.0	3.6	3.6	3.4	3.5	3.5	3.3	3.3	2.1	1.2	.70
AC-FT	32	473	320	16090	2150	12190	3060	857	217	234	94	62

e Estimated.

11474780 KEKAWAKA CREEK BELOW KEKAWAKA CREEK POWERHOUSE DIVERSION, NEAR ZENIA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.81	3.20	13.5	89.7	34.8	50.6	13.6	11.4	5.73	2.15	.76	.48
MAX	1.29	7.95	44.0	262	53.9	198	51.4	21.1	14.2	4.09	1.88	1.05
(WY)	1994	1995	1993	1995	1993	1995	1995	1990	1993	1993	1993	1995
MIN	.52	1.31	3.48	5.08	8.02	5.12	3.36	3.59	1.90	.51	.036	.008
(WY)	1995	1991	1991	1991	1991	1994	1991	1994	1992	1994	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1990 - 1995	
ANNUAL TOTAL	3117.90		18037.00			
ANNUAL MEAN	8.54		49.4		19.9	
HIGHEST ANNUAL MEAN					49.4	1995
LOWEST ANNUAL MEAN					6.47	1991
HIGHEST DAILY MEAN	238	Feb 17	1370	Jan 9	1370	Jan 9 1995
LOWEST DAILY MEAN	.06	Sep 30	.10	Oct 1	.00	Sep 3 1992
ANNUAL SEVEN-DAY MINIMUM	.07	Sep 24	.21	Oct 1	.00	Sep 3 1992
INSTANTANEOUS PEAK FLOW			1910	Jan 9	1910	Jan 9 1995
INSTANTANEOUS PEAK STAGE			8.80	Jan 9	8.80	Jan 9 1995
ANNUAL RUNOFF (AC-FT)	6180		35780		14410	
10 PERCENT EXCEEDS	7.8		123		26	
50 PERCENT EXCEEDS	3.3		3.6		3.2	
90 PERCENT EXCEEDS	.11		.90		.20	

11474781 KEKAWAKA CREEK BELOW KEKAWAKA CREEK POWERHOUSE DIVERSION, NEAR ZENIA, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	1.5	40	54	521	16	104	236	10	5.6	1.9	1.2
2	.30	1.4	39	44	310	26	84	169	10	5.4	1.8	1.2
3	.20	1.0	75	44	212	97	72	123	10	5.1	1.8	1.3
4	.20	1.3	62	47	156	67	72	91	9.8	5.0	1.8	1.3
5	.20	2.8	34	192	117	48	70	77	9.7	4.7	1.7	1.3
6	.20	1.8	27	197	89	38	150	66	9.4	4.5	1.7	1.2
7	.30	1.5	25	529	73	33	229	57	9.2	4.4	1.8	1.2
8	.40	1.4	18	951	72	136	256	50	8.9	4.4	1.8	1.1
9	.30	8.7	14	1370	67	900	213	48	8.6	4.5	1.6	1.0
10	.30	5.5	13	557	50	700	162	41	8.5	4.4	1.6	1.0
11	.30	2.9	18	512	45	500	125	43	8.4	4.3	1.9	1.0
12	.40	2.2	32	484	41	400	150	39	8.0	4.8	1.8	.90
13	.50	1.7	28	622	55	300	217	40	7.9	4.6	1.6	.90
14	.60	1.8	47	563	46	910	149	34	12	4.2	1.5	.90
15	.60	3.3	42	413	41	444	129	30	19	3.8	1.5	.90
16	.60	8.0	88	262	37	240	108	27	11	3.5	1.5	1.1
17	.60	43	64	182	37	174	87	26	11	3.2	1.6	1.1
18	.60	24	86	138	36	177	76	23	12	3.5	1.6	1.0
19	.60	9.4	58	107	31	136	67	21	10	3.6	1.5	.90
20	.60	22	41	81	30	394	73	19	9.2	3.2	1.3	.80
21	.60	21	30	70	26	296	59	18	8.4	3.1	1.2	.70
22	.60	12	24	151	24	273	51	18	7.8	3.2	1.2	.70
23	.60	7.3	20	190	22	232	46	16	7.4	3.1	1.2	.70
24	.60	13	40	176	21	203	41	16	7.1	3.0	1.3	.80
25	.60	94	32	140	19	197	36	15	6.8	3.2	1.4	1.0
26	.60	39	25	195	18	195	34	13	6.4	3.2	1.3	1.2
27	.70	45	30	191	17	188	49	13	7.5	3.0	1.3	1.3
28	1.3	45	52	213	18	179	42	12	6.1	2.5	1.3	1.3
29	1.0	27	38	197	---	160	223	12	5.8	2.3	1.3	1.3
30	.90	29	30	452	---	138	164	11	5.7	2.4	1.3	1.2
31	.80	---	34	494	---	117	---	11	---	2.1	1.3	---
TOTAL	16.20	477.5	1206	9818	2231	7914	3338	1415	271.6	117.8	47.4	31.50
MEAN	.52	15.9	38.9	317	79.7	255	111	45.6	9.05	3.80	1.53	1.05
MAX	1.3	94	88	1370	521	910	256	236	19	5.6	1.9	1.3
MIN	.10	1.0	13	44	17	16	34	11	5.7	2.1	1.2	.70
AC-FT	32	947	2390	19470	4430	15700	6620	2810	539	234	94	62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

MEAN	.81	4.85	29.5	119	76.1	94.8	41.1	26.4	14.9	2.33	.76	.48
MAX	1.29	15.9	73.7	317	108	255	111	50.5	45.8	5.16	1.88	1.05
(WY)	1994	1995	1993	1995	1993	1995	1995	1993	1993	1993	1993	1995
MIN	.52	1.31	3.48	6.26	17.1	27.1	7.49	5.78	1.90	.51	.036	.008
(WY)	1995	1991	1991	1991	1991	1994	1990	1992	1992	1994	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1990 - 1995	
ANNUAL TOTAL	7531.09		26884.00			
ANNUAL MEAN	20.6		73.7		35.3	
HIGHEST ANNUAL MEAN					73.7	1995
LOWEST ANNUAL MEAN					14.0	1991
HIGHEST DAILY MEAN	278	Jan 23	1370	Jan 9	1370	Jan 9 1995
LOWEST DAILY MEAN	.06	Sep 30	.10	Oct 1	.00	Sep 3 1992
ANNUAL SEVEN-DAY MINIMUM	.07	Sep 24	.21	Oct 1	.00	Sep 3 1992
INSTANTANEOUS PEAK FLOW			1910	Jan 9	1910	Jan 9 1995
ANNUAL RUNOFF (AC-FT)	14940		53320		25570	
10 PERCENT EXCEEDS	55		197		88	
50 PERCENT EXCEEDS	6.5		16		5.3	
90 PERCENT EXCEEDS	.11		.90		.20	

11475000 EEL RIVER AT FORT SEWARD, CA

LOCATION.--Lat 40°13'05", long 123°37'54", in SE 1/4 NE 1/4 sec.8, T.3 S., R.5 E., Humboldt County, Hydrologic Unit 18010105, on right bank at downstream side of bridge, 1.0 mi southeast of Fort Seward, 1.9 mi upstream from Dobbyn Creek, and 11.8 mi northeast of Garberville.

DRAINAGE AREA.--2,107 mi^2.

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 217.26 ft above sea level. Prior to Dec. 22, 1964, at site 7.5 mi upstream at datum 46.55 ft higher. Feb. 2 to Sept. 30, 1965, at site 7.7 mi upstream at datum 49.42 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow slightly regulated by Lake Pillsbury (station 11470000) 99 mi upstream and by diversion through Potter Valley Powerhouse Intake (station 11471000). See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft^3/s, Dec. 22, 1964, gage height, 82.6 ft, from floodmarks, present site and datum, 87.2 ft, from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft^3/s on basis of slope-area measurement at gage height 72.5 ft; minimum daily, 1.2 ft^3/s, Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 41,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0845	*287,000	*57.34	Mar. 14	2015	121,000	37.47
Jan. 31	1715	66,200	28.59	Mar. 20	1830	57,500	27.25
Mar. 9	1845	166,000	43.60				

Minimum daily, 11 ft^3/s, Oct. 3-5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	37	1550	2810	55900	3690	10200	22400	2120	618	163	81
2	12	41	1930	3180	39900	3860	9470	23800	1950	576	155	81
3	11	49	2170	2690	26000	7280	8690	16600	1860	527	147	81
4	11	56	5500	3070	19900	8650	8010	13100	1780	506	141	81
5	11	83	3120	6860	16500	6470	7610	10600	1700	452	135	76
6	12	109	2090	11600	14000	5360	9890	8930	1610	415	131	76
7	12	143	1840	28500	12100	4730	20500	7490	1500	420	123	78
8	25	184	1570	73600	10700	7270	23100	6220	1430	384	119	78
9	52	329	1470	224000	9660	98400	19700	5580	1350	350	114	76
10	40	825	1330	120000	8940	85700	15300	5250	1280	331	114	76
11	32	705	1360	89600	8170	75700	12700	4530	1260	317	114	76
12	26	420	2570	88400	7350	47500	11100	4310	1240	308	109	74
13	22	273	3620	96900	7320	41500	15100	5470	1200	333	106	72
14	19	207	2950	133000	7370	86700	12400	5040	1220	393	102	72
15	18	214	5000	73800	6300	75600	10100	4940	1670	335	102	72
16	22	324	5330	39900	5690	37900	9290	5140	2140	299	100	70
17	24	1030	6450	26500	5270	25600	8240	4640	1550	272	100	69
18	22	1230	5870	20100	5280	24400	7260	4240	1390	248	98	71
19	25	725	5370	16300	5110	22200	6240	3920	1470	238	96	69
20	26	490	3550	13700	4810	39000	5920	3680	1300	237	95	69
21	24	503	2730	11700	4660	41300	5470	3310	1170	248	91	69
22	23	491	2220	11000	4550	37100	4580	3210	1100	248	91	64
23	23	427	1930	17400	4360	33500	4110	3240	1020	245	91	62
24	23	376	2160	18500	4220	25600	3900	3320	951	237	89	62
25	23	2950	3200	17000	4170	20700	3800	3180	914	214	85	62
26	26	4040	2400	18000	3990	17900	3630	3000	850	205	83	61
27	26	2140	2160	22500	3840	15800	3740	2840	823	203	83	61
28	30	2510	3250	24400	3760	14400	4310	2630	768	197	82	60
29	31	2030	3240	24900	---	13400	10900	2500	704	186	82	59
30	31	1560	2590	47300	---	12200	19200	2400	660	174	82	59
31	31	---	2260	51400	---	11100	---	2290	---	169	81	---
TOTAL	726	24501	92780	1338610	309820	950510	294460	197800	39980	9885	3304	2117
MEAN	23.4	817	2993	43180	11060	30660	9815	6381	1333	319	107	70.6
MAX	52	4040	6450	224000	55900	98400	23100	23800	2140	618	163	81
MIN	11	37	1330	2690	3760	3690	3630	2290	660	169	81	59
AC-FT	1440	48600	184000	2655000	614500	1885000	584100	392300	79300	19610	6550	4200

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	403	3034	8515	12560	12060	9748	5241	2255	672	141	53.9	56.0
MAX	4938	18740	56050	43180	47700	30660	23040	7449	4194	482	199	359
(WY)	1963	1974	1965	1995	1986	1995	1982	1983	1993	1983	1983	1986
MIN	20.5	49.4	45.5	222	434	1071	476	356	131	18.4	3.27	9.57
(WY)	1965	1960	1977	1991	1977	1988	1977	1977	1977	1977	1977	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1955 - 1995	
ANNUAL TOTAL	626845.0		3264493			
ANNUAL MEAN	1717		8944		4530	
HIGHEST ANNUAL MEAN					10350	1983
LOWEST ANNUAL MEAN					260	1977
HIGHEST DAILY MEAN	22400	Jan 24	224000	Jan 9	434000	Dec 22 1964
LOWEST DAILY MEAN	8.1	Aug 26	11	Oct 3	1.2	Sep 13 1977
ANNUAL SEVEN-DAY MINIMUM	8.1	Aug 30	12	Oct 1	1.4	Sep 7 1977
INSTANTANEOUS PEAK FLOW			287000	Jan 9	561000	Dec 22 1964
INSTANTANEOUS PEAK STAGE			57.34	Jan 9	82.60	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	1243000		6475000		3282000	
10 PERCENT EXCEEDS	4530		22400		11400	
50 PERCENT EXCEEDS	825		1930		701	
90 PERCENT EXCEEDS	13		59		35	

11475560 ELDER CREEK NEAR BRANSCOMB, CA
(Hydrologic Benchmark Station)

LOCATION.--Lat 39°43'47", long 123°38'34", in NW 1/4 NE 1/4 sec.29, T.22 N., R.16 W., Mendocino County, Hydrologic Unit 18010106, on right bank 0.2 mi upstream from mouth and 5.3 mi north of Branscomb. Rain gage: lat 39°43'50", long 123°38'07", in NW 1/4 NW 1/4 sec.28, T.22 N., R.16 W., elevation, 1,440 ft at site 0.5 mi east of gaging station.

DRAINAGE AREA.--6.50 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and one recording and storage-type precipitation gage. Datum of gage is 1,391.08 ft above sea level.

REMARKS.--Records fair. No regulation; small diversion upstream from station for domestic use. See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft^3/s, Mar. 29, 1974, gage height, 9.77 ft, from rating curve extended above 660 ft^3/s on basis of slope-area measurements at gage heights 9.40 and 11.41 ft; minimum daily, 0.27 ft^3/s, Sept. 10-15, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 11.41 ft, from floodmarks, discharge, 3,660 ft^3/s by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0400	*1,270	*7.84	Mar. 9	0945	640	6.57
Jan. 13	1845	888	7.13	Mar. 14	1315	696	6.70

Minimum daily, 0.70 ft^3/s, Oct. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	e1.9	6.7	17	199	13	51	84	10	4.8	2.5	1.6
2	.74	e2.2	6.1	17	169	16	47	77	10	4.7	2.4	1.6
3	.70	e2.3	8.0	17	123	26	43	64	9.6	4.6	2.3	1.6
4	.71	e2.9	9.2	19	89	25	40	54	9.3	4.5	2.3	1.5
5	.75	e5.5	8.0	60	67	24	38	46	9.0	4.3	2.3	1.5
6	.79	e3.5	7.8	71	56	22	67	40	8.7	4.2	2.2	1.4
7	.79	e2.5	7.0	213	48	21	160	36	8.4	4.2	2.2	1.4
8	.79	e2.0	6.3	361	43	48	151	33	8.1	4.1	2.2	1.3
9	.79	e10	5.8	789	37	388	119	30	7.9	4.1	2.1	1.2
10	.80	4.6	5.4	402	34	253	91	28	7.6	4.0	2.1	1.2
11	.82	2.7	7.9	266	31	239	70	26	7.5	4.0	2.2	1.2
12	.85	2.1	15	309	28	203	64	27	7.2	4.0	2.1	1.2
13	.84	1.7	15	585	31	218	71	27	7.1	4.0	2.1	1.1
14	.87	1.6	21	591	27	502	64	25	9.2	3.8	2.0	1.1
15	.97	3.4	21	311	25	319	60	23	10	3.6	2.0	1.1
16	1.0	3.8	41	214	23	190	54	22	7.8	3.5	1.9	1.2
17	1.0	7.2	37	143	23	120	48	21	7.3	3.4	2.0	1.1
18	1.0	4.8	33	101	23	125	43	20	7.2	3.4	2.0	1.1
19	1.1	3.4	27	73	21	106	39	19	6.9	3.3	1.9	1.0
20	1.1	3.0	22	61	20	209	37	18	6.6	3.3	1.9	.99
21	1.1	2.7	19	53	19	203	33	17	6.3	3.2	1.8	.97
22	1.1	2.4	16	54	18	194	31	16	6.1	3.3	1.7	.96
23	1.0	2.2	14	60	17	168	28	15	5.9	3.2	1.7	.96
24	1.0	4.0	17	76	16	126	27	15	5.7	3.2	1.7	.98
25	1.0	22	14	75	15	98	25	14	5.5	3.1	1.7	.99
26	1.1	11	13	105	15	77	23	13	5.4	3.0	1.7	.98
27	1.3	12	14	124	14	67	25	13	5.2	2.9	1.7	1.0
28	1.6	12	17	147	13	62	24	12	5.1	2.8	1.7	1.0
29	1.5	9.0	16	133	---	59	53	12	5.0	2.7	1.7	1.0
30	e1.6	7.3	16	228	---	57	48	11	4.9	2.7	1.7	.99
31	e1.6	---	16	210	---	54	---	11	---	2.6	1.6	---
TOTAL	31.06	155.7	482.2	5885	1244	4232	1674	869	220.5	112.5	61.4	35.22
MEAN	1.00	5.19	15.6	190	44.4	137	55.8	28.0	7.35	3.63	1.98	1.17
MAX	1.6	22	41	789	199	502	160	84	10	4.8	2.5	1.6
MIN	.70	1.6	5.4	17	13	13	23	11	4.9	2.6	1.6	.96
AC-FT	62	309	956	11670	2470	8390	3320	1720	437	223	122	70
a	0.36	11.97	9.40	40.01	2.14	28.28	10.27	2.28	1.29	0.04	0	0.03

e Estimated.
a Precipitation, in inches.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.32	20.8	45.4	66.5	55.1	55.4	25.5	11.1	5.68	2.33	1.33	1.13
MAX	8.72	132	135	210	173	147	91.9	28.0	31.6	5.84	2.49	2.36
(WY)	1980	1974	1971	1970	1986	1983	1982	1995	1993	1993	1990	1986
MIN	.57	1.16	1.04	2.32	3.40	5.45	3.01	2.13	1.35	.67	.48	.51
(WY)	1988	1979	1977	1977	1977	1988	1977	1977	1977	1977	1977	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1968 - 1995	
ANNUAL TOTAL	3519.82		15002.58			
ANNUAL MEAN	9.64		41.1		24.3	
HIGHEST ANNUAL MEAN					54.4	1974
LOWEST ANNUAL MEAN					2.12	1977
HIGHEST DAILY MEAN	98	Feb 17	789	Jan 9	1470	Jan 16 1974
LOWEST DAILY MEAN	.68	Sep 21	.70	Oct 3	.27	Sep 10 1981
ANNUAL SEVEN-DAY MINIMUM	.68	Sep 21	.75	Oct 1	.27	Sep 9 1981
INSTANTANEOUS PEAK FLOW			1270	Jan 9	2280	Mar 29 1974
INSTANTANEOUS PEAK STAGE			7.84	Jan 9	9.77	Mar 29 1974
ANNUAL RUNOFF (AC-FT)	6980		29760		17580	
10 PERCENT EXCEEDS	22		119		64	
50 PERCENT EXCEEDS	5.2		9.2		5.1	
90 PERCENT EXCEEDS	.81		1.1		.95	

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.
CHEMICAL DATA: Water years 1968 to current year.
WATER TEMPERATURE: Water years 1968-79.
SEDIMENT DATA: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1967 to September 1979.
SUSPENDED-SEDIMENT DISCHARGE: October 1973 to September 1975.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
DEC										
14...	1230	25	106	8.0	7.0	1.7	725	11.3	98	43
MAR										
22...	1515	195	76	7.4	8.0	1.8	716	10.9	98	K4
JUN										
13...	1315	7.2	118	8.1	11.0	0.20	727	10.3	98	K1
SEP										
19...	1230	1.1	144	8.2	13.0	0.20	723	9.5	95	K5

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3
DEC										
14...	20	38	0	10	3.2	5.8	24	0.4	0.60	58
MAR										
22...	120	30	0	7.6	2.6	4.7	25	0.4	0.50	44
JUN										
13...	K2	46	0	12	3.8	6.9	24	0.4	0.60	65
SEP										
19...	17	53	0	14	4.3	8.0	25	0.5	0.60	79

DATE	CARBONATE WATER DIS IT FIELD MG/L AS CO3	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)
DEC										
14...	0	48	1.9	2.5	<0.10	12	50	65	0.07	<0.010
MAR										
22...	0	36	1.4	1.9	<0.10	15	55	56	0.08	0.010
JUN										
13...	0	54	2.3	2.3	0.10	15	72	75	0.10	<0.010
SEP										
19...	0	64	2.7	2.7	<0.10	14	84	85	0.11	<0.010

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)
DEC										
14...	<0.050	<0.015	<0.20	0.040	0.030	0.020	30	12	<3	25
MAR										
22...	<0.050	0.020	<0.20	0.020	<0.010	0.020	40	10	<3	30
JUN										
13...	<0.050	<0.015	<0.20	0.030	<0.010	0.020	10	14	<3	4
SEP										
19...	<0.050	<0.015	<0.20	0.020	0.020	0.020	10	17	<3	6

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
DEC										
14...	<4	1	<10	<1	<1	<1.0	92	<6	--	--
MAR										
22...	<4	<1	<10	<1	<1	<1.0	76	<6	--	<0.01
JUN										
13...	<4	<1	<10	<1	<1	<1.0	120	<6	--	--
SEP										
19...	<4	<1	<10	<1	<1	<1.0	140	<6	0.05	0.01

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DEPTH AT SAMPLE LOC-ATION, TOTAL (FEET)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC											
14...*	1634	1.08	9.00	107	8.0	7.0	725	11.2	97	6	76
14...*	1642	1.61	15.5	106	8.0	7.0	725	11.2	97	6	79
14...*	1650	1.93	19.5	106	8.0	7.0	725	11.1	96	6	80
SEP											
19...*	1135	0.70	3.30	144	8.1	13.0	723	9.4	94	1	--
19...*	1140	0.73	5.20	144	8.1	13.0	723	9.5	95	1	--
19...*	1145	0.90	6.80	144	8.1	13.0	723	9.5	95	1	--

* Instantaneous discharge at the time of cross-sectional measurement: Dec. 14, 24 ft^3/s; Sept. 19, 1.1 ft^3/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC						
14...	1230	25	7.0	4	0.27	89
14...	1640	24	7.0	6	0.39	78
MAR						
22...	1515	195	8.0	6	3.2	83
JUN						
13...	1315	7.2	11.0	1	0.02	--
SEP						
19...	1130	1.1	13.0	1	0.00	--
19...	1230	1.1	13.0	1	0.00	--

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA

LOCATION.--Lat 39°52'29", long 123°43'10", in NE 1/4 SE 1/4 sec.3, T.23 N., R.17 W., Mendocino County, Hydrologic Unit 18010106, on right bank near Standish Hickey State Park, 0.2 mi upstream from Rock Creek, and 0.7 mi northwest of Leggett.

DRAINAGE AREA.--248 mi^2.

PERIOD OF RECORD.--October 1965 to June 30, 1995. Stage only July 1, 1995 to Sept. 30, 1995.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 691.32 ft above sea level. Prior to July 29, 1988, at datum 2.00 ft higher.

REMARKS.--Records good including estimated daily discharges. No regulation or diversion upstream from station. See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft^3/s, Jan. 4, 1966, gage height, 27.4 ft, from floodmarks, present datum, from rating curve extended above 21,000 ft^3/s on basis of slope-area measurement at gage height 28.13 ft; minimum daily, 7.3 ft^3/s, Aug. 4-6, 12, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 28.13 ft, from floodmarks, present datum, discharge, 78,700 ft^3/s, by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0500	*33,100	*18.82	Mar. 9	1115	16,200	13.37
Jan. 13	1930	24,000	16.16	Mar. 14	1415	17,600	13.92
Jan. 30	0915	13,300	12.13	Mar. 20	1000	10,800	11.01

Minimum daily, 12 ft^3/s, Oct. 1-2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	30	213	681	8230	359	1140	3060	241	---	---	---
2	12	35	206	592	5460	414	1010	2350	231	---	---	---
3	13	30	252	521	3690	918	907	1860	224	---	---	---
4	13	37	472	559	2700	903	817	1540	214	---	---	---
5	13	108	304	2290	2120	732	771	1280	208	---	---	---
6	13	105	281	2570	1760	642	1450	1100	200	---	---	---
7	13	71	272	e8600	1510	578	4010	949	190	---	---	---
8	13	51	225	e12000	1340	1860	3660	835	185	---	---	---
9	13	366	197	22800	1150	12200	2800	769	179	---	---	---
10	13	280	177	11100	1010	7350	2170	702	176	---	---	---
11	13	132	207	8090	904	7550	1780	664	175	---	---	---
12	13	95	729	8480	817	5680	1620	658	167	---	---	---
13	13	76	710	15900	978	6330	2850	e1150	164	---	---	---
14	13	65	800	15100	882	12900	2000	e794	188	---	---	---
15	14	96	764	9440	725	8080	1790	e699	286	---	---	---
16	14	164	e2450	5730	648	4290	1630	645	220	---	---	---
17	14	354	e2210	3890	624	2930	1340	e590	187	---	---	---
18	14	261	e1170	2940	671	3720	1190	e538	184	---	---	---
19	14	155	e990	2390	599	2810	1030	500	173	---	---	---
20	14	127	673	2030	562	7410	1010	463	162	---	---	---
21	14	122	521	1790	536	5910	866	438	156	---	---	---
22	14	106	418	1950	500	7090	766	422	147	---	---	---
23	14	94	352	2350	471	6190	698	e393	140	---	---	---
24	14	135	511	2770	448	4640	638	e369	134	---	---	---
25	14	1270	482	2360	429	3480	586	352	128	---	---	---
26	15	726	379	3570	409	2690	544	e332	126	---	---	---
27	16	467	362	3720	390	2220	666	e316	121	---	---	---
28	23	512	731	4650	374	1910	618	302	118	---	---	---
29	25	327	563	3720	---	1660	2290	e290	114	---	---	---
30	25	247	473	9690	---	1440	1570	e278	113	---	---	---
31	25	---	436	7380	---	1260	---	262	---	---	---	---
TOTAL	463	6644	18530	179653	39937	126146	44217	24900	5251	---	---	---
MEAN	14.9	221	598	5795	1426	4069	1474	803	175	---	---	---
MAX	25	1270	2450	22800	8230	12900	4010	3060	286	---	---	---
MIN	12	30	177	521	374	359	544	262	113	---	---	---
AC-FT	918	13180	36750	356300	79220	250200	87700	49390	10420	---	---	---

CAL YR 1994 TOTAL 128054 MEAN 351 MAX 4970 MIN 12 AC-FT 254000

e Estimated

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	1.24	1.24	.92	.91	---	---
2	---	---	---	---	---	---	1.24	1.24	.91	.88	---	---
3	---	---	---	---	---	---	1.24	1.21	.88	.88	---	---
4	---	---	---	---	---	---	1.21	1.18	.88	.86	---	---
5	---	---	---	---	---	---	1.18	1.17	.86	.85	---	---
6	---	---	---	---	---	---	1.17	1.16	.86	.85	---	---
7	---	---	---	---	---	---	1.15	1.14	.85	.84	---	---
8	---	---	---	---	---	---	1.15	1.14	.85	.84	.70	.69
9	---	---	---	---	---	---	1.14	1.13	.84	.82	.69	.69
10	---	---	---	---	---	---	1.13	1.13	.83	.82	.69	.68
11	---	---	---	---	---	---	1.13	1.13	.83	.82	.68	.68
12	---	---	---	---	---	---	1.13	1.13	.83	.82	.68	.67
13	---	---	---	---	---	---	1.13	1.12	.82	.81	.67	.67
14	---	---	---	---	---	---	1.11	1.09	.82	.81	.67	.67
15	---	---	---	---	---	---	1.09	1.05	.81	.80	.67	.66
16	---	---	---	---	---	---	1.06	1.03	.80	.79	.66	.66
17	---	---	---	---	---	---	1.03	1.01	.79	.78	.67	.66
18	---	---	---	---	---	---	1.03	1.01	.78	.77	.67	.66
19	---	---	---	---	---	---	1.03	1.02	.78	.77	.66	.66
20	---	---	---	---	---	---	1.03	1.02	.77	.77	.66	.65
21	---	---	---	---	---	---	1.02	1.02	.77	.75	.65	.64
22	---	---	---	---	---	---	1.02	1.02	.75	.74	.64	.64
23	---	---	---	---	---	---	1.03	1.02	.75	.74	.64	.64
24	---	---	---	---	---	---	1.03	1.03	.74	.73	.64	.64
25	---	---	---	---	---	---	1.03	1.00	.73	.72	.65	.64
26	---	---	---	---	---	---	1.01	1.00	.74	.72	.64	.64
27	---	---	---	---	---	---	1.00	.97	.73	.72	.65	.64
28	---	---	---	---	---	---	.97	.95	---	---	.65	.65
29	---	---	---	---	---	---	.95	.94	---	---	.65	.65
30	---	---	---	---	---	---	.94	.92	---	---	.65	.65
31	---	---	---	---	---	---	.93	.92	---	---	---	---
MONTH	---	---	---	---	---	---	1.24	.92	---	---	---	---

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA

LOCATION.--Lat 40°10'55", long 123°46'30", in NW 1/4 sec.30, T.3 S., R.4 E., Humboldt County, Hydrologic Unit 18010106, on right bank 0.5 mi upstream from Rocky Glen Creek, 4.3 mi southeast of Miranda, and 20 mi upstream from mouth.

DRAINAGE AREA.--537 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.
TEMPERATURE DATA: Water years 1960-83.
SEDIMENT DATA: Water year 1981.
REVISED RECORDS.--WSP 1395: Drainage area. WSP 2129: 1955.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 217.57 ft above sea level. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft upstream at datum 0.8 ft higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Occasional storage and release for recreational use during summer months at Benbow Reservoir, capacity, 1,060 acre-ft, 16 mi upstream. No diversion upstream from station. See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft^3/s, Dec. 22, 1964, gage height, 46.0 ft, from floodmarks, from rating curve extended above 53,000 ft^3/s on basis of slope-area measurement at gage height 42.7 ft; minimum observed, 9 ft^3/s, Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0900	*81,100	*31.29	Mar. 9	1330	43,000	23.47
Jan. 13	2230	65,700	28.40	Mar. 14	1745	45,500	24.06
Jan. 30	1445	29,200	19.87	Mar. 20	1445	20,500	17.23

Minimum daily, 22 ft^3/s, Oct. 5-7, 13, 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	46	527	1270	19800	803	2070	4240	491	188	95	54
2	23	53	523	1330	12800	880	1850	3920	469	194	92	53
3	23	55	541	1210	8090	1460	1680	3000	456	171	86	52
4	23	59	726	1240	5690	1850	1540	2470	444	185	66	52
5	22	190	669	2690	4330	1460	1470	2110	438	189	81	53
6	22	193	572	4980	3520	1260	2330	1880	417	185	81	53
7	22	160	544	14300	2930	1140	7510	1680	405	179	79	52
8	23	124	474	27600	2590	2260	7240	1520	394	179	75	50
9	23	585	410	62900	2180	21600	5610	1420	377	180	61	50
10	23	752	371	29200	1890	18700	4090	1340	369	176	67	50
11	23	348	459	19800	1680	18900	3220	1270	371	177	69	146
12	23	198	1320	18300	1520	12800	3020	1230	356	166	76	191
13	22	138	1600	32200	1650	12500	5090	1710	344	129	73	76
14	23	111	1410	41800	1670	32500	3730	1460	392	160	70	47
15	22	171	1630	20300	1390	21400	3170	1260	689	169	69	45
16	23	334	3600	11700	1260	10500	2870	1190	568	130	57	44
17	23	736	4050	7550	1200	6740	2440	1100	449	132	54	44
18	24	724	2990	5440	1210	7040	2180	1020	409	132	59	43
19	24	409	2250	4280	1170	5590	1930	951	387	133	61	43
20	24	286	1600	3580	1110	14600	1840	891	358	131	61	42
21	25	246	1240	3040	1070	13000	1690	839	333	127	60	41
22	24	206	1010	3070	1030	15100	1530	809	319	132	58	40
23	25	172	866	3920	993	13600	1410	765	302	135	57	40
24	25	189	1210	4930	924	9930	1310	716	287	131	58	38
25	25	1610	1200	4500	898	7070	1220	681	273	130	57	40
26	26	1840	950	5730	876	5320	1140	647	262	127	56	41
27	28	1040	1180	7380	854	4170	1230	615	248	123	54	41
28	31	978	1880	8420	822	3500	1270	587	240	113	55	41
29	32	755	1500	7310	---	3010	2830	566	235	89	53	41
30	37	552	1200	21000	---	2640	2880	542	228	95	54	40
31	36	---	1060	18800	---	2360	---	515	---	96	54	---
TOTAL	772	13260	39562	399770	85147	273683	81390	42944	11310	4583	2048	1643
MEAN	24.9	442	1276	12900	3041	8828	2713	1385	377	148	66.1	54.8
MAX	37	1840	4050	62900	19800	32500	7510	4240	689	194	95	191
MIN	22	46	371	1210	822	803	1140	515	228	89	53	38
AC-FT	1530	26300	78470	792900	168900	542900	161400	85180	22430	9090	4060	3260

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	276	1515	4044	5330	4698	3633	1858	694	306	113	61.8	61.5
MAX	3332	10130	17260	17530	16640	13000	8425	2370	1754	276	131	221
(WY)	1963	1974	1965	1970	1986	1983	1982	1990	1993	1993	1983	1986
MIN	20.0	25.0	74.6	207	284	304	176	122	52.7	20.4	18.0	29.1
(WY)	1940	1940	1977	1977	1977	1988	1977	1977	1977	1977	1977	1949

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	265647		956112			
ANNUAL MEAN	728		2619		1872	
HIGHEST ANNUAL MEAN					4393	1983
LOWEST ANNUAL MEAN					156	1977
HIGHEST DAILY MEAN	10600	Jan 24	62900	Jan 9	161000	Dec 22 1964
LOWEST DAILY MEAN	22	Aug 21	22	Oct 5	10	Aug 30 1964
ANNUAL SEVEN-DAY MINIMUM	22	Sep 23	23	Oct 1	14	Jul 30 1977
INSTANTANEOUS PEAK FLOW			81100	Jan 9	199000	Dec 22 1964
INSTANTANEOUS PEAK STAGE			31.29	Jan 9	46.00	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	526900		1896000		1356000	
10 PERCENT EXCEEDS	1620		6860		4860	
50 PERCENT EXCEEDS	293		566		340	
90 PERCENT EXCEEDS	23		41		46	

11476600 BULL CREEK NEAR WEOTT, CA

LOCATION.--Lat 40°21'05", long 124°00'10", in SW 1/4 NW 1/4 sec.30, T.1 S., R.2 E., Humboldt County, Hydrologic Unit 18010106, on left bank 0.2 mi downstream from Albee Creek, 4.5 mi northwest of Weott, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--28.1 mi^2.

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 269.36 ft above sea level. Prior to Dec. 22, 1964, water-stage recorder, and Jan. 14 to Aug. 10, 1965, nonrecording gage at site 150 ft downstream at datum 8.90 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Minor diversions upstream from station for domestic and recreational use. See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft^3/s, Dec. 22, 1964, gage height, 20.6 ft, from floodmarks, site and datum then in use, from rating curve extended above 2,100 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.25 ft^3/s, Sept. 27, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1130	*6,400	*11.86	Mar. 9	unknown	unknown	unknown
Jan. 13	unknown	unknown	unknown	Mar. 14	unknown	4,060	9.86
Jan. 31	unknown	unknown	unknown				

Minimum daily, 0.36 ft^3/s, Oct. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	11	48	148	e1200	41	e120	136	32	e14	6.6	2.5
2	.71	8.5	47	137	e800	55	e110	127	31	e13	6.4	2.4
3	.60	5.8	43	151	e580	e110	e100	120	30	e13	6.4	2.4
4	.47	14	39	149	e450	e100	e90	114	29	e13	6.3	2.4
5	.46	26	35	206	e350	e95	e82	111	28	e13	6.1	2.2
6	.47	15	37	257	e260	e90	e200	105	27	e12	5.9	2.1
7	.48	12	34	1310	e200	e130	e680	99	26	e12	5.8	2.1
8	.46	9.2	32	2240	165	e400	e460	92	26	e12	5.9	2.0
9	.37	79	30	e3700	142	e1900	e390	92	e25	e11	5.8	1.9
10	.36	28	29	e1800	125	e1300	e330	84	e24	e11	5.8	1.8
11	.39	18	50	e1900	113	e1100	e300	82	e23	e11	6.0	1.9
12	.51	15	82	e2000	104	e860	e500	85	e22	e10	5.7	1.9
13	.58	12	77	e3100	108	e1300	e380	94	e25	e10	5.6	1.7
14	.91	11	144	e1600	96	e2500	e320	82	e35	e9.8	5.3	1.6
15	1.5	24	138	e950	87	e900	e280	77	e50	9.4	5.2	1.7
16	1.4	32	300	e600	81	e540	e250	72	e45	9.1	5.3	1.8
17	1.3	79	224	e420	77	e420	e220	68	e34	8.7	5.0	1.8
18	1.4	48	244	e320	72	e450	e210	64	e31	8.8	4.7	1.8
19	1.4	32	189	e240	68	e400	e190	60	e29	8.8	4.5	1.7
20	1.3	28	152	e170	64	e900	e170	57	e26	8.5	4.1	1.5
21	1.2	23	120	e190	60	e880	148	54	e24	8.4	3.5	1.4
22	1.2	20	100	e230	57	e790	134	52	e23	8.6	3.3	1.3
23	1.3	18	86	e230	54	e820	122	49	e20	8.4	3.3	1.3
24	1.3	31	119	e310	51	e600	112	47	e19	8.1	3.1	1.3
25	1.3	97	103	e360	49	e420	103	44	e18	8.0	3.3	1.5
26	1.3	72	92	e450	46	e320	96	41	e17	8.1	3.2	1.7
27	2.4	57	138	e550	44	e230	108	40	e17	7.8	2.9	1.7
28	7.4	47	183	e620	42	e190	96	38	e16	7.5	2.9	2.1
29	4.6	40	155	e550	---	e170	108	36	e16	7.2	2.8	2.3
30	3.5	36	132	e900	---	e150	102	34	e14	7.3	2.6	2.0
31	3.1	---	124	e1400	---	e130	---	33	---	7.0	2.6	---
TOTAL	44.43	948.5	3326	27188	5545	18291	6511	2289	782	304.5	145.9	55.8
MEAN	1.43	31.6	107	877	198	590	217	73.8	26.1	9.82	4.71	1.86
MAX	7.4	97	300	3700	1200	2500	680	136	50	14	6.6	2.5
MIN	.36	5.8	29	137	42	41	82	33	14	7.0	2.6	1.3
AC-FT	88	1880	6600	53930	11000	36280	12910	4540	1550	604	289	111

e Estimated.

11476600 BULL CREEK NEAR WEOTT, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	14.0	117	252	319	285	241	120	41.3	17.2	6.63	3.55	3.08
MAX	160	683	705	901	1056	717	526	137	88.0	14.5	10.0	12.8
(WY)	1963	1974	1978	1978	1986	1983	1963	1963	1993	1993	1983	1986
MIN	.72	3.61	3.67	10.5	13.8	16.0	11.2	10.3	4.84	1.81	.70	.50
(WY)	1988	1994	1977	1977	1977	1988	1988	1988	1977	1977	1992	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	20591.47		65431.13			
ANNUAL MEAN	56.4		179		118	
HIGHEST ANNUAL MEAN					287	1983
LOWEST ANNUAL MEAN					9.72	1977
HIGHEST DAILY MEAN	804	Jan 24	3700	Jan 9	4900	Jan 16 1974
LOWEST DAILY MEAN	.25	Sep 27	.36	Oct 10	.25	Sep 27 1994
ANNUAL SEVEN-DAY MINIMUM	.29	Sep 22	.43	Oct 5	.29	Sep 22 1994
INSTANTANEOUS PEAK FLOW			6400	Jan 9	6520	Dec 22 1964
INSTANTANEOUS PEAK STAGE			11.86	Jan 9	20.60	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	40840		129800		85230	
10 PERCENT EXCEEDS	141		450		303	
50 PERCENT EXCEEDS	27		38		22	
90 PERCENT EXCEEDS	1.0		1.7		2.1	

11477000 EEL RIVER AT SCOTIA, CA
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 40°29'30", long 124°05'55", in SW 1/4 sec.5, T.1 N., R.1 E., Humboldt County, Hydrologic Unit 18010105, near center of span in left pier of A.S. Murphy Memorial Bridge on State Highway 283, 0.5 mi north of Scotia, and 6 mi upstream from Van Duzen River.
DRAINAGE AREA.--3,113 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to current year. Monthly discharge only for some periods and yearly estimates for 1915-16, published in WSP 1315-B.
REVISED RECORDS.--WSP 931: 1938. WSP 1315-B: 1914-15(M), 1917(M), 1927-28(M), 1936(M), 1939(M). WSP 1345: Drainage area. WSP 1715: 1959.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 35.50 ft above sea level. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Low flow slightly regulated by Lake Pillsbury (station 11470000) 138 mi upstream since December 1921 and by diversion through Potter Valley Powerhouse Intake (station 11471000). See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft^3/s, Dec. 23, 1964, gage height, 72.0 ft, from floodmarks, from rating curve extended above 220,000 ft^3/s on basis of maximum flow at upstream stations; minimum observed, 10 ft^3/s, Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 72,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	unknown	*368,000	*51.30	Mar. 15	0115	187,000	37.84
Jan. 30	2230	112,000	29.90	Mar. 21	0100	84,300	26.78
Mar. 9	2230	202,000	39.19				

Minimum daily, 55 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	125	2690	5090	97900	4510	14700	29400	3500	1040	349	156
2	56	131	3100	6090	73200	4830	13400	38000	3320	969	337	157
3	57	134	3240	5590	43800	6570	12300	26500	3150	923	323	155
4	57	151	4890	5390	30700	11400	11300	20000	3050	868	310	153
5	57	254	5460	7370	23600	8820	10700	16700	2940	841	283	148
6	56	423	3610	19400	18900	7320	13100	14100	2800	790	274	146
7	56	417	3060	38700	15400	6470	32000	12400	2660	761	267	146
8	56	401	2710	e114000	e13100	8740	41000	10600	2530	757	258	152
9	57	1020	2380	e284000	11600	114000	34700	9670	2410	729	251	162
10	57	1940	2140	e229000	10000	127000	25600	9210	2300	690	240	160
11	63	1690	2100	126000	8850	118000	20200	8140	2220	667	230	158
12	77	1150	3620	122000	8070	81300	17400	7600	2150	670	229	185
13	74	807	5920	109000	7980	62100	25600	8840	2090	650	230	255
14	78	591	5660	217000	8500	121000	23300	9340	2100	645	224	238
15	74	616	7320	129000	7570	135000	18600	8120	2570	706	216	171
16	71	1020	9330	67100	6860	62200	16900	8300	3180	669	215	151
17	67	2870	14200	40900	6440	39100	15100	7660	2820	605	209	142
18	66	3200	11200	29700	6260	33300	13800	7080	2410	569	197	138
19	70	2250	10500	23400	6210	33600	12100	6450	2350	552	194	137
20	71	1550	7330	19200	5830	51700	11300	6160	2230	532	192	136
21	70	1360	5630	16500	5600	69900	10900	5640	2000	525	187	134
22	72	1200	4550	15600	5500	62500	9310	5370	1840	531	180	131
23	74	1050	3860	23200	5350	60800	8450	5140	1720	532	177	130
24	75	966	4360	27600	5150	45900	7920	5260	1590	525	179	127
25	75	2980	5510	27300	5100	34600	7630	5020	1500	517	176	131
26	76	8060	4960	26300	4960	28500	7430	4850	1430	483	170	127
27	77	4850	4370	37200	4780	24400	7520	4550	1330	458	166	127
28	87	3990	7250	36100	4630	21700	8370	4290	1250	439	163	132
29	89	3960	7020	41100	---	19700	11800	4040	1160	414	158	129
30	95	3030	5720	70400	---	17800	30000	3870	1090	378	153	125
31	98	---	4890	90700	---	16000	---	3710	---	360	155	---
TOTAL	2163	52186	168580	2009930	451840	1438760	492430	316010	67690	19795	6892	4539
MEAN	69.8	1740	5438	64840	16140	46410	16410	10190	2256	639	222	151
MAX	98	8060	14200	284000	97900	135000	41000	38000	3500	1040	349	255
MIN	55	125	2100	5090	4630	4510	7430	3710	1090	360	153	125
AC-FT	4290	103500	334400	3987000	896200	2854000	976700	626800	134300	39260	13670	9000

e Estimated.

11477000 EEL RIVER AT SCOTIA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	693	5199	13620	19480	19420	14300	8896	3649	1261	337	150	144
MAX	10910	38690	84420	69950	77680	51150	39190	11570	7511	920	422	735
(WY)	1963	1974	1965	1970	1958	1983	1982	1912	1993	1993	1983	1986
MIN	50.5	59.3	168	659	389	946	703	278	75.7	25.1	22.1	19.4
(WY)	1930	1930	1977	1977	1920	1924	1924	1924	1924	1924	1924	1924

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1911 - 1995	
ANNUAL TOTAL	1141894		5030815			
ANNUAL MEAN	3128		13780		7207	
HIGHEST ANNUAL MEAN					17300	1983
LOWEST ANNUAL MEAN					563	1977
HIGHEST DAILY MEAN	45900	Jan 24	284000	Jan 9	648000	Dec 23 1964
LOWEST DAILY MEAN	54	Sep 22	55	Oct 1	12	Aug 12 1924
ANNUAL SEVEN-DAY MINIMUM	56	Sep 26	56	Oct 1	14	Aug 10 1924
INSTANTANEOUS PEAK FLOW			368000	Jan 9	752000	Dec 23 1964
INSTANTANEOUS PEAK STAGE			51.30	Jan 9	72.00	Dec 23 1964
ANNUAL RUNOFF (AC-FT)	2265000		9979000		5222000	
10 PERCENT EXCEEDS	7300		34600		17500	
50 PERCENT EXCEEDS	1550		3180		1370	
90 PERCENT EXCEEDS	60		128		102	

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to September 1995 (discontinued).
CHEMICAL DATA: Water years 1952-75, 1977, 1979 to September 1995 (discontinued).
BIOLOGICAL DATA: Water year 1979-81.
SPECIFIC CONDUCTANCE: Water years 1979-81.
WATER TEMPERATURE: Water years 1958-82.
SEDIMENT DATA: Water years 1955 to September 1995 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1979 to September 1981.
WATER TEMPERATURE: October 1957 to June 1982.
SUSPENDED-SEDIMENT DISCHARGE: October 1957 to September 1980.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)
NOV												
02...	1300	126	303	8.4	13.0	0.30	764	10.7	101	K10	K7	140
JAN												
05...	1140	6420	160	7.7	8.0	8.8	753	11.0	94	K20	43	71
MAR												
01...	1300	4570	185	8.0	11.5	8.2	758	10.2	94	K3	16	77
MAY												
03...	1100	27200	128	8.3	12.5	140	763	9.7	91	K96	K130	56
JUL												
19...	1150	553	267	8.3	22.0	0.80	762	8.8	101	K2	98	120
SEP												
20...	1345	131	309	8.3	22.5	0.20	760	9.4	109	K6	K2	130

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV												
02...	4	38	11	9.3	12	0.3	1.2	159	4	137	19	7.8
JAN												
05...	6	19	5.7	6.0	15	0.3	0.70	79	0	65	12	3.7
MAR												
01...	2	21	6.0	5.1	12	0.3	0.80	92	0	75	11	2.7
MAY												
03...	2	15	4.5	3.6	12	0.2	0.80	66	0	54	5.5	1.2
JUL												
19...	7	33	8.7	7.2	12	0.3	1.2	136	0	112	15	4.5
SEP												
20...	8	37	10	8.9	13	0.3	1.4	154	0	126	18	6.6

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)
NOV												
02...	<0.10	9.1	181	178	0.25	<0.010	<0.050	<0.015	<0.20	0.010	<0.010	<0.010
JAN												
05...	<0.10	9.9	99	96	0.13	<0.010	<0.050	<0.015	<0.20	0.030	<0.010	<0.010
MAR												
01...	<0.10	11	110	103	0.15	<0.010	<0.050	<0.015	<0.20	<0.010	<0.010	0.010
MAY												
03...	<0.10	12	85	76	0.12	<0.010	<0.050	<0.015	<0.20	0.050	0.040	0.030
JUL												
19...	0.10	11	150	148	0.20	<0.010	<0.050	0.020	<0.20	<0.010	0.010	<0.010
SEP												
20...	<0.10	9.4	172	168	0.23	<0.010	<0.050	<0.015	<0.20	<0.010	<0.010	<0.010

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
NOV												
02...	<10	88	<3	9	<4	12	<10	<1	<1	<1.0	440	<6
JAN												
05...	60	39	<3	58	<4	3	<10	2	<1	<1.0	230	<6
MAR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	220	39	5	480	<4	12	<10	3	<1	<1.0	180	<6
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	<10	85	<3	8	<4	5	<10	<1	<1	<1.0	420	<6

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB											
28...*	1305	7.90	51.0	184	8.0	11.5	761	10.3	95	27	88
28...*	1335	7.00	89.0	184	8.0	11.5	761	10.3	95	31	75
28...*	1405	2.10	213	184	8.0	11.5	761	9.9	91	46	54
28...*	1435	3.80	323	184	8.0	11.5	761	10.0	92	35	62
28...*	1505	3.60	396	184	8.0	11.5	761	9.2	85	32	68
SEP											
20...*	1225	1.30	60.0	308	8.3	22.5	760	9.8	114	2	--
20...*	1230	1.70	91.0	309	8.3	22.0	760	9.4	108	1	--
20...*	1235	2.70	113	309	8.3	22.0	760	9.4	108	1	--
20...*	1240	2.40	127	309	8.3	22.0	760	9.5	109	1	--
20...*	1245	2.00	147	309	8.3	22.5	760	9.6	111	1	--

* Instantaneous streamflow at the time of cross-sectional measurement: Feb 28, 4,630 ft^3/s: Sept. 20, 133 ft^3/s.

11477000 EEL RIVER AT SCOTIA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
02...	1300	126	13.0	1	0.34	85
JAN						
05...	0945	6220	8.0	26	437	78
FEB						
28...	1400	4670	11.5	34	429	66
MAR						
01...	1300	4570	11.5	27	333	69
MAY						
03...	1100	27200	12.5	628	46100	62
JUL						
19...	1150	553	22.0	2	3.0	78
SEP						
20...	1237	133	22.5	1	0.36	86
20...	1345	131	22.5	1	0.35	78

11477425 MILL CREEK BELOW DIVERSION DAM, NEAR DINSMORE, CA

LOCATION.--Lat 40°27'52", long 123°35'59", in NE 1/4 SW 1/4 sec.15, T.1 N., R.5 E., Humboldt County, Hydrologic Unit 18010105, on left bank 1.9 mi south-southeast of Dinsmore.

DRAINAGE AREA.--0.74 mi^2.

PERIOD OF RECORD.--October 1990 to current year.

GAGE.--Water-stage recorder and 90° V-notch weir. Elevation of gage is 3,660 ft above sea level, from topographic map.

REMARKS.--Records of fishery release normally are computed only during periods of diversion to power house. Flow over spillway bypasses this station. See schematic diagram of Eel River basin.

COOPERATION.--Records provided by North Coast Hydroelectric, under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.35	.33	.35	.33	.35	.33	---	---	---	---
2	---	---	.33	.33	.29	.33	.35	.31	---	---	---	---
3	---	---	.31	.33	.27	.35	.33	.29	---	---	---	---
4	---	---	.31	.31	.00	.35	.33	.29	---	---	---	---
5	---	---	.31	.33	.00	.33	.35	.29	---	---	---	---
6	---	---	.31	.00	.00	.35	.35	.29	---	---	---	---
7	---	---	.29	.00	.35	.35	.29	.29	---	---	---	---
8	---	---	.29	.00	.35	.44	.00	.27	---	---	---	---
9	---	.31	.31	.00	.35	.54	.00	.27	---	---	---	---
10	---	---	.35	.00	.33	.49	.33	.27	---	---	---	---
11	---	---	.35	.00	.33	.46	.33	.27	---	---	---	---
12	---	---	.35	.00	.33	.44	.33	.27	---	---	---	---
13	---	---	.35	.00	.33	.44	.33	.29	---	---	---	---
14	---	---	.35	.00	.33	.51	.33	.29	.29	---	---	---
15	---	---	.35	.44	.33	.49	.31	.29	.29	---	---	---
16	---	---	.35	.44	.33	.46	.31	.27	.27	---	---	---
17	---	---	.33	.40	.33	.44	.31	.27	.27	---	---	---
18	---	---	.33	.37	.33	.46	.31	.27	.29	---	---	---
19	---	---	.33	.37	.33	.44	.31	.27	.33	---	---	---
20	---	.38	.33	.35	.33	.51	.31	.27	---	---	---	---
21	---	---	.33	.37	.33	.46	.31	.27	---	---	---	---
22	---	---	.33	.37	.33	.44	.31	.27	---	---	---	---
23	---	---	.33	.37	.33	.42	.31	.27	---	---	---	---
24	---	.35	.33	.37	.33	.42	.31	.29	---	---	---	---
25	---	.35	.33	.40	.33	e.38	.31	---	---	---	---	---
26	---	---	.33	.40	.33	e.35	.29	---	---	---	---	---
27	---	.40	.35	.40	.33	.31	.29	---	---	---	---	---
28	---	.35	.37	.40	.33	.33	.31	---	---	---	---	---
29	---	.33	.33	.35	---	.33	.33	---	---	---	---	---
30	---	e.34	.33	.34	---	.35	.33	---	---	---	---	---
31	---	---	.33	.35	---	.35	---	---	---	---	---	---
TOTAL	---	---	10.27	8.12	8.23	12.65	8.96	---	---	---	---	---
MEAN	---	---	.33	.26	.29	.41	.30	---	---	---	---	---
MAX	---	---	.37	.44	.35	.54	.35	---	---	---	---	---
MIN	---	---	.29	.00	.00	.31	.00	---	---	---	---	---
AC-FT	---	---	20	16	16	25	18	---	---	---	---	---

e Estimated.

11477450 SULPHUR CREEK BELOW DIVERSION DAM, NEAR DINSMORE, CA

LOCATION.--Lat 40°27'50", long 123°36'15", in NW 1/4 SW 1/4 sec.15, T.1 N., R.5 E., Humboldt County, Hydrologic Unit 18010105, on right bank 2 mi south-southeast of Dinsmore.

DRAINAGE AREA.--1.06 mi^2.

PERIOD OF RECORD.--October 1990 to current year.

GAGE.--Water-stage recorder and 90° V-notch weir. Elevation of gage is 3,660 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records of fishery release normally are computed only during periods of diversion to power house. Flow over spillway bypasses this station. See Schematic diagram of Eel River basin.

COOPERATION.--Records provided by North Coast Hydroelectric, under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.60	.54	.63	.44	.54	.46	---	---	---	---
2	---	---	.54	.54	.54	.46	.51	.46	---	---	---	---
3	---	---	.49	.54	.49	.49	.49	.40	---	---	---	---
4	---	---	.49	.54	.46	.46	.46	.35	---	---	---	---
5	---	---	.46	.56	.44	.49	.51	.33	---	---	---	---
6	---	---	.46	.60	.42	.46	.00	.29	---	---	---	---
7	---	---	.44	.00	.35	.44	.00	.27	---	---	---	---
8	---	---	.44	.00	.33	.44	.00	.27	---	---	---	---
9	---	.44	.46	.00	.31	.00	.00	.27	---	---	---	---
10	---	---	.54	.00	.31	.00	.51	.26	---	---	---	---
11	---	---	.54	.00	.31	.00	.54	.26	---	---	---	---
12	---	---	.54	.00	.31	.00	.56	.26	---	---	---	---
13	---	---	.54	.00	.31	.46	.63	.26	---	---	---	---
14	---	---	.54	.00	.31	.44	.60	.26	.27	---	---	---
15	---	---	.54	.00	.29	.00	.51	.27	.26	---	---	---
16	---	---	.56	.00	.29	.72	.49	.27	.26	---	---	---
17	---	---	.54	.49	.33	.66	.46	.27	.26	---	---	---
18	---	---	.56	.51	.31	.82	.44	.27	.26	---	---	---
19	---	---	.54	.49	.31	.72	.44	.26	.27	---	---	---
20	---	.40	.51	.49	.35	.95	.44	.26	---	---	---	---
21	---	---	.49	.44	.44	.56	.44	.00	---	---	---	---
22	---	---	.49	.46	.44	.51	.44	.00	---	---	---	---
23	---	---	.49	.54	.42	.49	.44	.00	---	---	---	---
24	---	.00	.51	.54	.42	.40	.46	.00	---	---	---	---
25	---	.00	.49	.51	.42	.31	.56	---	---	---	---	---
26	---	---	.49	.54	.42	.27	.56	---	---	---	---	---
27	---	.51	.56	.51	.42	.44	.56	---	---	---	---	---
28	---	.44	.56	.51	.44	.49	.56	---	---	---	---	---
29	---	.44	.54	.49	---	.51	.46	---	---	---	---	---
30	---	.51	.51	.60	---	.56	.37	---	---	---	---	---
31	---	---	.51	.66	---	.54	---	---	---	---	---	---
TOTAL	---	---	15.97	11.10	10.82	13.53	12.98	---	---	---	---	---
MEAN	---	---	.52	.36	.39	.44	.43	---	---	---	---	---
MAX	---	---	.60	.66	.63	.95	.63	---	---	---	---	---
MIN	---	---	.44	.00	.29	.00	.00	---	---	---	---	---
AC-FT	---	---	32	22	21	27	26	---	---	---	---	---

11477475 MILL CREEK BELOW SULPHUR CREEK, AT DINSMORE, CA

LOCATION.--Lat 40°28'59", long 123°36'28", in SE 1/4 NE 1/4 sec.9, T.1 N., R.5 E., Humboldt County, Hydrologic Unit 18010105, on right bank 300 ft downstream of confluence of Mill and Sulphur Creeks and 0.6 mi south of Dinsmore.

DRAINAGE AREA.--3.11 mi^2.

PERIOD OF RECORD.--October 1990 to current year.

REVISED RECORDS.--WDR CA-94-1: 1991(M)

GAGE.--Water-stage recorder and V-notch weir. Elevation of gage is 2,550 ft above sea level, from topographic map.

REMARKS.--Record of creek only includes water retained in Mill and Sulphur Creeks for fishery enhancement plus any additional water not diverted for power development at Mill and Sulphur Creek Powerplant (station 11477400). Combined flow includes flow to powerplant and represents all flow from drainage area. See station 11477476 for records of combined discharge of creek and powerplant. See schematic diagram of Eel River basin.

COOPERATION.--Records provided by North Coast Hydroelectric, under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown ft^3/s, Jan. 9, 1995, gage height, 3.64 ft; no flow for many days.
Combined flow, maximum daily discharge, 200 ft^3/s, Jan. 9, 1995; no flow for many days.

EXTREMES FOR CURRENT YEAR.--Creek only, maximum discharge, unknown ft^3/s, Jan. 9, gage height, 3.64 ft; no flow for many days.
Combined flow, maximum daily discharge, 200 ft^3/s, Jan. 9; no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	18	12	48	2.6	17	34	1.9	1.1	.14	.00
2	.00	.00	14	11	35	3.8	13	22	1.7	1.1	.11	.00
3	.00	.00	8.2	11	20	9.4	10	16	1.7	1.1	.09	.00
4	.00	9.4	6.2	14	10	7.5	9.0	14	1.6	.93	.09	.00
5	.00	.30	5.3	25	7.5	6.2	17	12	1.5	.72	.07	.00
6	.00	.30	4.5	26	6.0	5.9	41	11	1.4	.72	.07	.00
7	.00	.21	4.0	66	4.8	5.6	57	10	1.4	.72	.97	.00
8	.00	.17	3.6	e107	4.3	29	41	8.5	1.4	.66	.07	.00
9	.00	2.6	3.6	e190	3.8	e120	26	7.8	1.2	.66	.07	.00
10	.00	1.7	4.0	66	3.4	52	19	7.2	1.1	.60	.07	.00
11	.00	1.5	4.5	62	3.2	55	16	6.8	1.2	.60	.07	.00
12	.00	1.4	5.1	60	2.9	41	24	7.8	1.1	.66	.07	.00
13	.00	1.1	4.8	59	3.2	43	41	10	1.1	.66	.07	.00
14	.00	1.0	7.2	63	3.2	89	22	8.5	2.8	.66	.07	.00
15	.00	1.5	7.5	44	3.2	47	15	7.2	2.9	.60	.07	.00
16	.00	3.2	22	29	3.2	34	11	5.1	2.4	.60	.07	.00
17	.00	2.3	16	16	4.5	22	9.0	4.5	2.5	.60	.07	.00
18	.00	2.8	27	12	4.3	30	7.8	4.3	2.4	.54	.07	.00
19	.00	1.9	15	11	3.6	27	7.2	4.0	3.4	.48	.00	.00
20	.00	4.3	11	9.7	3.6	63	8.2	3.8	3.8	.48	.00	.00
21	.00	4.0	9.7	8.2	3.4	45	7.8	3.6	3.2	.48	.00	.00
22	.00	3.2	7.5	18	3.2	40	7.2	3.2	2.3	.42	.00	.00
23	.00	2.8	7.8	23	3.2	34	6.2	2.8	2.3	.42	.00	.00
24	.00	29	13	20	2.9	25	6.8	2.8	2.1	.36	.00	.00
25	.00	26	10	18	2.8	23	5.9	2.8	1.9	.36	.00	.00
26	.00	9.7	9.4	23	2.6	22	5.3	2.6	1.7	.30	.00	.00
27	.00	12	12	25	2.6	16	6.2	2.4	1.5	.30	.00	.00
28	.00	10	12	36	2.6	12	6.2	2.3	1.4	.25	.00	.00
29	.00	8.5	9.4	35	---	14	20	2.1	1.2	.25	.00	.00
30	.00	6.5	7.8	51	---	16	15	2.1	1.1	.21	.00	.00
31	.00	---	8.2	50	---	17	---	2.0	---	.21	.00	---
TOTAL	0.00	147.38	298.3	1200.9	201.0	957.0	497.8	233.2	57.2	17.75	2.31	0.00
MEAN	.000	4.91	9.62	38.7	7.18	30.9	16.6	7.52	1.91	.57	.075	.000
MAX	.00	29	27	190	48	120	57	34	3.8	1.1	.97	.00
MIN	.00	.00	3.6	8.2	2.6	2.6	5.3	2.0	1.1	.21	.00	.00
AC-FT	.00	292	592	2380	399	1900	987	463	113	35	4.6	.00

e Estimated.

11477475 MILL CREEK BELOW SULPHUR CREEK, AT DINSMORE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.036	1.56	4.69	13.9	8.59	14.2	8.03	3.67	1.06	.29	.027	.000
MAX	.13	4.91	9.62	38.7	12.6	30.9	16.6	7.52	1.91	.57	.075	.001
(WY)	1993	1995	1995	1995	1992	1995	1995	1995	1995	1995	1995	1993
MIN	.000	.078	1.25	3.62	4.16	5.28	3.04	1.35	.28	.077	.000	.000
(WY)	1991	1994	1991	1991	1991	1994	1994	1992	1992	1994	1992	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	1340.01		3612.84			
ANNUAL MEAN	3.67		9.90		4.66	
HIGHEST ANNUAL MEAN					9.90	1995
LOWEST ANNUAL MEAN					2.78	1991
HIGHEST DAILY MEAN	29	Jan 23	190	Jan 9	190	Jan 9 1995
LOWEST DAILY MEAN	.00	Jul 27	.00	Oct 1	.00	Oct 1 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 27	.00	Oct 1	.00	Oct 1 1990
INSTANTANEOUS PEAK FLOW			unknown	Jan 9	unknown	Jan 9 1995
INSTANTANEOUS PEAK STAGE			3.64	Jan 9	3.64	Jan 9 1995
ANNUAL RUNOFF (AC-FT)	2660		7170		3380	
10 PERCENT EXCEEDS	9.7		28		13	
50 PERCENT EXCEEDS	2.4		2.9		1.4	
90 PERCENT EXCEEDS	.00		.00		.00	

11477476 MILL CREEK BELOW SULPHUR CREEK, AT DINSMORE, CA--Continued

MILL CREEK AND MILL AND SULPHUR CREEK POWERPLANT
COMBINED DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e13	19	59	3.8	23	46	1.9	1.1	.14	.00
2	.00	.00	e13	16	47	8.5	23	34	1.7	1.1	.11	.00
3	.00	.00	e39	15	32	17	21	27	1.7	1.1	.09	.00
4	.00	9.4	e30	24	22	13	21	21	1.6	.93	.09	.00
5	.00	.30	e8.8	37	16	11	29	18	1.5	.72	.07	.00
6	.00	.30	e7.6	37	14	9.5	54	16	1.4	.72	.07	.00
7	.00	.21	e6.5	72	11	9.9	70	14	1.4	.72	.97	.00
8	.00	.17	e5.6	e110	10	39	53	12	1.4	.66	.07	.00
9	.00	e27	e4.7	e200	8.6	e130	38	12	1.2	.66	.07	.00
10	.00	1.7	e4.2	78	7.3	64	31	11	1.1	.60	.07	.00
11	.00	1.5	e5.8	74	6.6	67	28	10	1.2	.60	.07	.00
12	.00	1.4	e10	72	5.8	53	36	12	1.1	.66	.07	.00
13	.00	1.1	e9.1	71	6.1	55	53	16	1.1	.66	.07	.00
14	.00	1.0	e15	75	5.6	100	34	13	4.3	.66	.07	.00
15	.00	1.5	e14	56	5.2	59	27	10	6.2	.60	.07	.00
16	.00	3.2	e42	41	5.1	46	20	7.6	3.8	.60	.07	.00
17	.00	2.3	e22	27	7.7	34	18	6.5	3.4	.60	.07	.00
18	.00	2.8	e43	23	11	40	17	6.5	3.5	.54	.07	.00
19	.00	1.9	e30	19	9.2	38	15	5.8	4.7	.48	.00	.00
20	.00	e4.3	e14	20	7.9	68	16	5.2	3.8	.48	.00	.00
21	.00	4.0	e42	15	6.7	48	15	4.7	3.2	.48	.00	.00
22	.00	3.2	e9.0	28	6.1	44	14	4.1	2.3	.42	.00	.00
23	.00	2.8	e7.3	35	5.6	39	12	3.5	2.3	.42	.00	.00
24	.00	e31	e13	32	5.2	31	12	3.0	2.1	.36	.00	.00
25	.00	e13	e11	30	4.7	27	6.4	2.8	1.9	.36	.00	.00
26	.00	9.7	e9.0	35	4.3	27	9.2	2.6	1.7	.30	.00	.00
27	.00	e15	e13	37	4.1	21	10	2.4	1.5	.30	.00	.00
28	.00	e15	e18	48	3.7	19	12	2.3	1.4	.25	.00	.00
29	.00	e8.4	e15	47	---	21	32	2.1	1.2	.25	.00	.00
30	.00	e10	13	62	---	23	26	2.1	1.1	.21	.00	.00
31	.00	---	13	61	---	22	---	2.0	---	.21	.00	---
TOTAL	0.00	172.18	500.6	1516	337.5	1187.7	775.6	335.2	66.7	17.75	2.31	0.00
MEAN	.000	5.74	16.1	48.9	12.1	38.3	25.9	10.8	2.22	.57	.075	.000
MAX	.00	31	43	200	59	130	70	46	6.2	1.1	.97	.00
MIN	.00	.00	4.2	15	3.7	3.8	6.4	2.0	1.1	.21	.00	.00
AC-FT	.00	342	993	3010	669	2360	1540	665	132	35	4.6	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

MEAN	.036	1.73	6.94	18.4	13.5	19.8	13.2	5.28	1.14	.29	.027	.000
MAX	.13	5.74	16.1	48.9	18.4	38.3	25.9	10.8	2.22	.57	.075	.001
(WY)	1993	1995	1995	1995	1992	1995	1995	1995	1995	1995	1995	1993
MIN	.000	.078	1.25	4.65	6.60	10.4	4.10	1.35	.28	.077	.000	.000
(WY)	1991	1994	1991	1991	1991	1994	1994	1992	1992	1994	1992	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1991 - 1995	
ANNUAL TOTAL	2145.81		4911.54			
ANNUAL MEAN	5.88		13.5		6.67	
HIGHEST ANNUAL MEAN					13.5	1995
LOWEST ANNUAL MEAN					4.23	1991
HIGHEST DAILY MEAN	43	Dec 18	200	Jan 9	200	Jan 9 1995
LOWEST DAILY MEAN	.00	Jul 27	.00	Oct 1	.00	Oct 1 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 27	.00	Oct 1	.00	Oct 1 1990
ANNUAL RUNOFF (AC-FT)	4260		9740		4830	
10 PERCENT EXCEEDS	16		39		22	
50 PERCENT EXCEEDS	2.5		4.1		1.4	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA

LOCATION.--Lat 40°28'50", long 123°53'23", in NE 1/4 SE 1/4 sec.12, T.1 N., R.2 E., Humboldt County, Hydrologic Unit 18010105, on left bank at downstream side of bridge on State Highway 36, 0.9 mi upstream from Grizzly Creek, and 5 mi west of Bridgeville.

DRAINAGE AREA.--222 mi^2.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1735: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 358.18 ft above sea level. Prior to Oct. 1, 1965, at site 2.4 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No storage or large diversion upstream from station. See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft^3/s, Dec. 22, 1964, gage height, 24.0 ft, from floodmarks, present site and datum, from rating curve extended above 20,000 ft^3/s on basis of slope-area measurement at gage height 21.3 ft, former site and datum; minimum daily, 4.4 ft^3/s, Sept. 28, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0600	*43,700	*19.72	Mar. 9	1130	32,500	16.81
Jan. 31	unknown	15,900	11.13	Mar. 14	1445	26,900	14.95

Minimum daily, 6.2 ft^3/s, several days in October.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	11	1140	1120	e11000	458	1450	2760	222	93	29	14
2	8.0	14	1180	1080	e7000	690	1380	2120	211	88	27	14
3	8.0	15	856	921	e4500	1660	1330	1590	203	84	27	14
4	8.0	15	673	902	e2700	1280	1300	1330	190	80	27	13
5	8.0	30	515	1500	e2000	1120	1500	1180	182	77	25	13
6	8.0	30	513	1810	e1500	964	4130	1060	175	73	24	13
7	8.0	34	453	8720	e1200	871	9070	965	163	72	23	13
8	8.0	31	371	15500	1110	2700	6340	884	155	70	23	13
9	8.0	367	309	29200	1000	21700	4000	838	145	69	22	12
10	8.0	306	269	12800	912	12100	2830	826	138	69	22	12
11	8.0	135	314	11100	844	10900	2220	763	143	67	21	11
12	8.1	85	554	11300	792	6310	2390	764	132	69	21	11
13	8.4	65	526	e10000	851	6130	4270	1030	123	74	21	11
14	8.2	54	661	e13500	808	18400	2630	886	149	70	20	12
15	6.2	81	802	e18000	722	9160	2090	768	388	64	20	12
16	6.2	307	1970	e9500	695	5660	1810	705	298	59	20	12
17	6.2	1350	1710	e5800	683	4690	1570	650	212	54	19	12
18	6.2	556	2040	e4100	825	6700	1470	593	270	50	19	12
19	6.2	268	1400	e3500	745	6500	1290	549	309	49	19	12
20	6.2	368	896	e2750	692	10200	1440	504	249	50	18	13
21	6.2	439	549	e2500	653	5100	1280	474	211	47	18	12
22	6.2	264	573	e2300	614	4070	1140	444	183	46	16	13
23	6.2	191	622	e2100	580	3200	1060	415	164	44	15	13
24	6.2	354	1020	e2750	558	2480	993	386	149	44	15	13
25	6.2	2380	936	e2500	531	2110	929	361	137	43	15	13
26	6.2	1010	728	e2600	503	1950	855	335	127	42	14	14
27	6.5	895	998	e2800	482	1810	899	312	117	41	e14	14
28	9.2	930	1450	e3100	469	1750	914	293	110	38	e14	15
29	11	634	1070	e4100	---	1710	1670	274	102	36	e14	15
30	11	606	871	e5000	---	1590	1660	254	97	34	e14	16
31	11	---	739	e12000	---	1510	---	233	---	32	14	---
TOTAL	235.8	11825	26708	204853	44969	155473	65910	24546	5454	1828	610	387
MEAN	7.61	394	862	6608	1606	5015	2197	792	182	59.0	19.7	12.9
MAX	11	2380	2040	29200	11000	21700	9070	2760	388	93	29	16
MIN	6.2	11	269	902	469	458	855	233	97	32	14	11
AC-FT	468	23450	52980	406300	89200	308400	130700	48690	10820	3630	1210	768

e Estimated.

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	158	920	1792	2220	1982	1638	926	442	142	36.2	17.3	20.6
MAX	1464	5476	6046	6608	6232	5015	3255	1139	821	98.0	82.4	144
(WY)	1963	1974	1956	1995	1958	1995	1963	1953	1993	1953	1983	1986
MIN	7.20	16.8	18.8	103	156	172	131	109	40.4	12.2	5.89	5.72
(WY)	1988	1960	1977	1977	1977	1988	1977	1985	1987	1977	1977	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	141523.8		542798.8			
ANNUAL MEAN	388		1487		853	
HIGHEST ANNUAL MEAN					1610	1974
LOWEST ANNUAL MEAN					95.7	1977
HIGHEST DAILY MEAN	4830	Jan 24	29200	Jan 9	33900	Dec 22 1964
LOWEST DAILY MEAN	5.9	Aug 30	6.2	Oct 15	4.4	Sep 28 1992
ANNUAL SEVEN-DAY MINIMUM	5.9	Aug 30	6.2	Oct 15	4.6	Aug 13 1977
INSTANTANEOUS PEAK FLOW			43700	Jan 9	48700	Dec 22 1964
INSTANTANEOUS PEAK STAGE			19.72	Jan 9	24.00	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	280700		1077000		618100	
10 PERCENT EXCEEDS	1110		4030		2110	
50 PERCENT EXCEEDS	182		368		177	
90 PERCENT EXCEEDS	6.9		12		12	

11479560 EEL RIVER AT FERNBRIDGE, CA

LOCATION.--Lat 40°36'57", long 124°12'06", in SW 1/4 NE 1/4 sec.29, T.3 N., R.1 W, Humboldt County, Hydrologic Unit 18010105, on right bank downstream from bridge on county road at Fernbridge.

DRAINAGE AREA.--3,614 mi^2.

PERIOD OF RECORD.--October 1989 to current year. Records prior to October 1989 are in the files of the California Department of Water Resources.

GAGE.--Water-stage recorder. Datum of gage is 3.64 ft above sea level.

REMARKS.--No estimated daily discharges. Data is collected for flood-warning purposes only. Figures given represent only those days when the gage height was above 0.56 ft. Gage put back in service Oct. 13, 1994. See schematic diagram of Eel River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 25.31 ft, Jan. 9, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.31 ft, Jan. 9.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	.57	.57	2.29	1.37	3.17	2.38	14.16	13.82	3.92	3.88
2	---	---	.72	.57	3.01	1.98	3.64	2.93	13.82	11.19	4.29	3.88
3	---	---	.79	.57	2.74	1.85	3.20	2.70	11.19	9.42	5.36	4.29
4	---	---	.57	.56	3.43	1.83	2.90	2.63	9.42	8.23	6.05	5.36
5	---	---	1.69	.56	3.46	2.17	5.05	2.71	8.23	7.45	5.71	5.21
6	---	---	1.74	.58	2.17	1.65	7.21	5.05	7.45	6.88	5.21	4.84
7	---	---	.66	.58	1.79	1.34	13.97	6.80	6.88	6.44	4.84	4.59
8	---	---	.58	.56	1.34	1.02	18.17	13.97	6.44	6.15	7.52	4.53
9	---	---	.56	.56	1.02	.85	25.31	18.17	6.15	5.84	19.94	7.52
10	---	---	1.11	.56	.85	.68	24.37	17.92	5.84	5.55	19.88	14.58
11	---	---	.61	.56	.92	.61	17.92	16.06	5.55	5.34	16.47	15.10
12	---	---	.56	.56	2.30	.90	16.54	15.39	5.34	5.16	15.10	11.82
13	---	---	.56	.56	3.04	2.30	18.02	13.70	5.30	5.16	12.37	11.31
14	---	---	.56	.55	3.24	2.62	21.79	18.02	5.36	5.27	19.00	12.37
15	---	---	.55	.55	3.86	3.24	19.03	14.12	5.27	4.94	19.11	13.73
16	---	---	.91	.55	5.90	3.73	14.12	11.12	4.94	4.74	13.73	10.65
17	---	---	3.06	.75	6.43	5.53	11.12	9.37	4.74	4.63	10.65	9.06
18	---	---	2.63	1.51	5.62	5.21	9.37	8.21	4.64	4.62	9.55	8.88
19	---	---	1.51	.71	5.40	4.52	8.21	7.44	4.63	4.53	9.83	8.57
20	---	---	.86	.57	4.52	3.45	7.44	6.91	4.53	4.41	13.23	8.57
21	---	---	.84	.57	3.45	2.71	6.91	6.46	4.41	4.33	13.35	11.62
22	---	---	.57	.57	2.71	2.16	6.84	6.39	4.33	4.30	12.01	11.62
23	---	---	.57	.56	2.20	1.77	7.96	6.84	4.30	4.22	12.02	11.07
24	---	---	.56	.56	3.12	1.77	8.37	7.96	4.22	4.14	11.07	9.77
25	.57	.57	3.51	.56	3.14	2.95	8.37	7.92	4.14	4.12	9.77	8.79
26	.57	.57	4.57	3.51	3.07	2.34	8.57	7.73	4.12	4.04	8.79	8.14
27	.57	.57	3.55	2.67	3.38	2.10	9.84	8.57	4.04	3.97	8.14	7.66
28	.57	.57	2.67	2.32	4.65	3.38	9.94	8.84	3.97	3.92	7.66	7.30
29	.57	.57	2.42	1.82	4.05	3.50	10.09	9.33	---	---	7.30	7.00
30	.57	.57	1.87	1.39	3.68	2.83	14.40	9.31	---	---	7.00	6.71
31	.57	.57	---	---	3.16	2.39	14.44	12.99	---	---	6.71	6.46

11479560 EEL RIVER AT FERNBRIDGE, CA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.46	6.26	9.33	7.30	3.44	3.35	2.31	2.27	1.55	1.48	1.25	1.23
2	6.26	6.05	9.53	8.26	3.35	3.27	2.27	2.22	1.51	1.39	1.25	1.21
3	6.05	5.84	8.26	6.99	3.27	3.22	2.22	2.14	1.49	1.46	1.25	1.21
4	5.84	5.69	6.99	6.43	3.22	3.17	2.15	2.08	1.48	1.44	1.26	1.13
5	5.74	5.64	6.44	6.02	3.17	3.13	2.10	2.09	1.46	1.44	1.26	1.23
6	6.75	5.74	6.02	5.73	3.13	3.06	2.09	2.05	1.44	1.38	1.24	1.20
7	10.52	6.75	5.73	5.46	3.06	2.99	2.05	2.02	1.42	1.39	1.24	1.15
8	10.55	9.77	5.46	5.17	2.99	2.92	2.02	1.98	1.42	1.38	1.23	1.20
9	9.77	8.48	5.17	5.08	2.92	2.86	2.00	1.99	1.41	1.33	1.22	1.20
10	8.48	7.53	5.08	4.97	2.87	2.81	1.99	1.96	1.40	1.33	1.22	1.22
11	7.53	6.91	4.97	4.75	2.82	2.80	1.96	1.92	1.40	1.35	1.22	1.19
12	7.30	6.64	4.75	4.69	2.80	2.77	1.92	1.92	1.37	1.30	1.22	1.18
13	8.65	7.30	5.30	4.74	2.77	2.74	1.92	1.89	1.36	1.30	1.31	1.22
14	8.53	7.24	5.35	4.96	2.81	2.74	1.91	1.84	1.36	1.33	1.33	1.31
15	7.24	6.77	4.96	4.79	3.33	2.81	1.93	1.89	1.36	1.29	1.33	1.26
16	6.78	6.48	4.92	4.79	3.47	3.33	1.93	1.91	1.35	1.26	1.26	1.16
17	6.49	6.19	4.82	4.65	3.47	3.13	1.91	1.79	1.34	1.33	1.22	1.20
18	6.20	5.91	4.65	4.49	3.13	3.02	1.80	1.78	1.33	1.26	1.20	1.15
19	5.91	5.65	4.49	4.34	3.07	3.03	1.78	1.74	1.32	1.26	1.19	1.16
20	5.72	5.62	4.34	4.26	3.07	2.96	1.74	1.74	1.31	1.28	1.18	1.11
21	5.67	5.47	4.26	4.09	2.96	2.83	1.74	1.73	1.30	1.27	1.18	1.13
22	5.47	5.18	4.09	4.03	2.83	2.75	1.73	1.72	1.30	1.26	1.17	1.15
23	5.18	4.99	4.03	3.94	2.75	2.68	1.72	1.72	1.29	1.25	1.16	1.12
24	4.99	4.84	4.08	3.94	2.68	2.60	1.72	1.71	1.28	1.25	1.16	1.12
25	4.84	4.74	3.97	3.88	2.60	2.56	1.71	1.71	1.28	1.24	1.17	1.13
26	4.74	4.65	3.90	3.81	2.56	2.51	1.71	1.67	1.27	1.25	1.17	1.12
27	4.77	4.64	3.81	3.73	2.51	2.45	1.67	1.63	1.27	1.23	1.16	1.08
28	4.88	4.77	3.73	3.63	2.45	2.40	1.65	1.62	1.27	1.15	1.16	1.10
29	6.77	4.83	3.63	3.56	2.41	2.35	1.63	1.53	1.26	1.23	1.16	1.16
30	8.16	6.77	3.56	3.50	2.35	2.31	1.60	1.55	1.26	1.22	1.16	1.11
31	---	---	3.50	3.44	---	---	1.57	1.52	1.26	1.21	---	---

11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION.--Lat 40°17'04", long 123°20'03", in NW 1/4 NE 1/4 sec.24, T.2 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, on left bank on downstream side of Zenia Road Bridge, (revised) 500 ft downstream from unnamed creek, 0.4 mile downstream from Tompkins Creek, and 6.1 mi southwest of Forest Glen.

DRAINAGE AREA.--93.8 mi^2.

PERIOD OF RECORD.--June 1980 to current year. Discharge measurements only September to December 1971, July 1972, June to September 1977.

REVISED RECORDS.--WDR CA-80-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,700 ft above sea level, from topographic map. June 28 to Sept. 30, 1990, nonrecording gage 400 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft^3/s, Feb. 17, 1986, gage height, 11.39 ft in gage, 12.94 ft from crest-stage gage, from rating curve extended above 5,000 ft^3/s, maximum gage height 13.10 ft, Jan. 20, 1993; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0445	*9,810	*11.86	Mar. 9	1215	6,850	9.91
Jan. 13	1715	7,210	10.15	Mar. 14	1530	5,370	8.93
Jan. 31	1545	4,750	8.48	Mar. 20	1015	3,410	7.41

No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	199	159	3910	90	812	1600	58	19	4.1	.31
2	.00	.00	217	165	2050	133	755	1030	53	19	2.7	.35
3	.00	.00	173	163	1070	328	703	738	52	17	2.8	.19
4	.00	.00	174	165	712	325	653	606	50	16	2.6	.18
5	.00	.00	143	298	560	295	657	528	47	15	2.3	.18
6	.00	.00	126	448	460	249	1070	468	42	13	1.8	.17
7	.00	.00	108	2190	397	212	1700	405	42	13	1.7	.11
8	.00	.00	95	5270	361	560	1620	340	44	12	1.7	.07
9	.00	1.8	84	7980	309	4520	1280	318	43	12	1.5	.04
10	.00	.23	78	4540	260	3210	1040	284	40	12	1.5	.03
11	.00	.00	73	3940	233	3350	903	258	39	12	1.4	.01
12	.00	.00	86	3780	212	1910	848	246	38	13	1.3	.00
13	.00	.00	92	4590	201	1750	1070	266	36	15	1.2	.00
14	.00	.00	108	4770	183	4090	931	226	44	14	1.2	.00
15	.00	.00	126	2640	165	2670	830	198	104	12	1.0	.00
16	.00	.04	440	1410	163	1230	750	183	71	12	.99	.00
17	.00	2.2	480	896	163	805	673	162	55	11	.96	.00
18	.00	27	603	682	171	816	616	154	60	9.8	.89	.00
19	.00	26	413	570	163	655	561	140	61	9.8	.75	.00
20	.00	23	275	478	158	2300	563	132	48	9.7	.67	.00
21	.00	33	196	413	152	1730	515	129	43	8.6	.59	.00
22	.00	32	149	429	136	1300	471	115	39	8.0	.66	.00
23	.00	26	134	539	126	1010	436	122	36	7.6	.62	.00
24	.00	56	164	509	117	855	407	120	33	6.8	.54	.00
25	.00	303	159	465	112	815	381	106	31	6.8	.51	.00
26	.00	131	136	567	104	810	355	90	30	6.0	.50	.00
27	.00	106	128	747	100	820	384	88	27	6.0	.48	.00
28	.00	127	158	1520	94	852	387	81	24	5.0	.43	.00
29	.00	107	155	1260	---	880	1010	74	23	5.0	.42	.00
30	.00	99	145	3290	---	863	1060	68	21	4.4	.39	.00
31	.00	---	133	3610	---	838	---	63	---	4.1	.37	---
TOTAL	0.00	1100.27	5750	58483	12842	40271	23441	9338	1334	334.6	38.57	1.64
MEAN	.000	36.7	185	1887	459	1299	781	301	44.5	10.8	1.24	.055
MAX	.00	303	603	7980	3910	4520	1700	1600	104	19	4.1	.35
MIN	.00	.00	73	159	94	90	355	63	21	4.1	.37	.00
AC-FT	.00	2180	11410	116000	25470	79880	46500	18520	2650	664	77	3.3

11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7.47	190	371	499	544	522	269	111	48.7	7.71	1.27	1.19
MAX	57.6	741	1198	1887	2136	1299	878	301	229	25.0	4.87	12.2
(WY)	1990	1985	1982	1995	1986	1995	1982	1995	1993	1993	1993	1986
MIN	.000	.000	8.08	28.5	85.3	38.6	32.0	20.4	5.31	1.27	.000	.000
(WY)	1988	1994	1991	1991	1991	1988	1988	1987	1987	1985	1984	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1980 - 1995	
ANNUAL TOTAL	27124.99		152934.08			
ANNUAL MEAN	74.3		419		213	
HIGHEST ANNUAL MEAN					419	1995
LOWEST ANNUAL MEAN					61.4	1994
HIGHEST DAILY MEAN	841	Jan 23	7980	Jan 9	9660	Feb 17 1986
LOWEST DAILY MEAN	.00	Aug 3	.00	Oct 1	.00	Oct 8 1980
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 3	.00	Oct 1	.00	Sep 11 1982
INSTANTANEOUS PEAK FLOW			9810	Jan 9	15000	Feb 17 1986
INSTANTANEOUS PEAK STAGE			11.86	Jan 9	13.10	Jan 20 1993
ANNUAL RUNOFF (AC-FT)	53800		303300		154200	
10 PERCENT EXCEEDS	195		1030		560	
50 PERCENT EXCEEDS	32		84		30	
90 PERCENT EXCEEDS	.00		.00		.00	

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'08", long 123°25'56", in NW 1/4 NW 1/4 sec.19, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near center of Robert W. Matthews Dam on Mad River, 5.6 mi west of Forest Glen.

DRAINAGE AREA.--121 mi^2.

PERIOD OF RECORD.--October 1966 to current year. Records prior to October 1966 in files of Humboldt Bay Municipal Water District.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Humboldt Bay Municipal Water District).

REMARKS.--Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 48,000 acre-ft at elevation 2,654.0 ft, crest of spillway. Minimum pool capacity, 7,810 acre-ft at elevation 2,600 ft. Water is released down Mad River for municipal use. Records given represent total contents at 2400 hours.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 68,000 acre-ft, Feb. 17, 1986, elevation, 2,667.06 ft; minimum, 11,700 acre-ft, Oct. 24-28, 1977; minimum elevation, 2,607.13 ft, Oct. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 58,100 acre-ft, Jan. 9, elevation, 2,662.39 ft; minimum contents, 26,700 acre-ft, Nov. 22-23, elevation, 2,631.72 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Humboldt Bay Municipal Water District in 1977)

2,595	5,920	2,620	18,100	2,645	38,600
2,600	7,810	2,625	21,500	2,650	43,700
2,605	10,000	2,630	25,300	2,655	49,200
2,610	12,500	2,635	29,400	2,660	55,100
2,615	15,100	2,640	33,800	2,664	60,200

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32700	28400	29200	41600	54600	46600	50000	51200	45600	45900	43800	e40500
2	32500	28200	29700	42000	52800	46600	49700	50800	45600	45800	43700	e40400
3	32300	28100	30200	42400	51500	47100	49600	50200	45600	45800	43600	e40300
4	32200	28100	30600	42800	50700	47400	49400	49800	45700	45800	43500	e40200
5	32100	28000	30800	43600	50200	47700	49400	49500	45600	45700	43400	e40100
6	31900	27900	31000	44700	49800	47800	50500	49300	45600	45600	43300	e40000
7	31800	27700	30900	49700	49500	47900	51500	49000	45600	45500	43200	e39800
8	31600	27600	31000	55800	49300	50000	51600	49100	45600	45500	43100	e39700
9	31500	27700	31100	e58100	49200	55000	51100	49200	45600	45500	43000	e39600
10	31400	27600	31100	55200	49000	54700	50600	49200	45600	45400	42900	e39500
11	31200	27500	31200	55100	48800	53900	50200	49000	45600	45300	42800	e39400
12	31100	27300	31400	54500	48700	52500	50200	48800	45500	45300	42800	e39200
13	30900	27200	31600	57000	48700	52800	50400	48700	45600	45200	42700	e39000
14	30800	27100	32000	55600	48500	55600	50200	48500	45700	45200	42600	e38900
15	30700	27100	32300	53300	48400	53300	50000	48400	45900	45100	42500	e38700
16	30500	27000	33500	51800	48400	51700	49700	48300	46000	45000	42400	e38600
17	30400	27000	34700	50800	48300	50800	49500	48200	46000	44900	42300	e38400
18	30300	26900	36200	50200	48300	50700	49300	48000	46100	44900	42100	e38300
19	30100	26900	37200	49800	48200	50400	49100	47900	46100	44800	42000	e38100
20	30000	26800	37800	49600	48100	52700	49000	47700	46200	44800	42000	e38000
21	29800	26800	38200	49300	48000	52000	48900	47600	46200	44700	41800	e37800
22	29700	26700	38500	49500	47900	51300	48800	47400	46200	44600	41800	e37700
23	29600	26700	38700	49700	47800	50700	48700	47200	46100	44700	41600	e37600
24	29400	27000	39100	49600	47600	50200	48500	47000	46100	44500	e41500	e37400
25	29300	27800	39400	49500	47400	50100	48500	46800	46100	44400	e41400	e37300
26	29200	28100	39700	49700	47300	50000	48400	46500	46100	44300	e41200	e37100
27	29000	28300	39900	50100	47000	50000	48400	46300	46000	44200	e41100	e37000
28	28900	28500	40300	51400	46800	50000	48400	46000	46000	44200	e41000	e36800
29	28800	28600	40600	51400	---	50100	49700	45700	46000	44000	e40900	e36700
30	28600	28800	40900	53900	---	50000	50100	45500	46000	43900	e40800	e36500
31	28500	---	41200	54900	---	50000	---	45600	---	43800	e40700	---
MAX	32700	28800	41200	58100	54600	55600	51600	51200	46200	45900	43800	40500
MIN	28500	26700	29200	41600	46800	46600	48400	45500	45500	43800	40700	36500
a	2633.89	2634.26	2647.64	2659.85	2652.90	2655.73	2655.82	2651.81	2652.17	2650.13	2647.15	2642.88
b	-4300	+300	+12400	+13700	-8100	+3200	+100	-4500	+400	-2200	-3100	-4200

CAL YR 1994 MAX 49800 MIN 26700 b +3300
WTR YR 1995 MAX 58100 MIN 26700 b +3700

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.
e Estimated

11480410 MAD RIVER BELOW RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'16", long 123°26'06", in SW 1/4 SW 1/4 sec.18, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, 1,200 ft downstream from Robert W. Matthews Dam, and 5.8 mi west of Forest Glen.

DRAINAGE AREA.--121 mi^2.

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,560 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except for discharges below 10 ft^3/s, which are poor. Flow regulated by Ruth Reservoir (station 11480400) 1,200 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,800 ft^3/s, Feb. 17, 1986, gage height, 17.61 ft, from floodmarks, from rating curve extended above 8,800 ft^3/s; minimum daily, 5.6 ft^3/s, Mar. 2, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,700 ft^3/s, Jan. 9, gage height, 13.57 ft; minimum daily, 42 ft^3/s, June 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	64	65	69	5290	238	893	1560	61	45	45	58
2	71	63	63	69	3890	238	845	1720	61	43	45	58
3	71	63	63	69	2440	234	745	1290	60	45	45	58
4	71	64	63	68	1620	237	654	955	60	45	46	58
5	71	63	64	70	1140	238	609	757	60	44	47	57
6	70	63	63	122	872	237	892	623	59	51	46	57
7	70	63	63	292	705	237	1790	527	58	44	47	57
8	70	63	63	3670	599	391	2220	329	57	44	45	57
9	69	64	67	11300	519	4970	1970	322	57	44	46	57
10	69	64	63	8280	447	5530	1560	329	57	45	46	57
11	70	63	64	5420	394	5540	1220	366	55	44	46	69
12	69	63	64	5880	357	3920	1020	428	56	44	45	76
13	68	62	64	5860	340	3230	1200	395	54	44	45	74
14	68	62	65	8040	318	5760	1160	350	52	44	46	74
15	68	63	65	4840	295	5650	1010	312	52	44	52	74
16	68	63	66	2770	270	3050	859	284	51	44	56	73
17	68	63	66	1740	248	1900	729	265	51	45	56	73
18	67	63	67	1180	260	1550	624	249	51	44	56	73
19	67	63	67	896	251	1280	531	241	53	44	57	73
20	67	62	66	714	244	2370	499	242	55	44	57	73
21	67	62	66	586	239	2930	457	242	55	44	57	73
22	66	62	66	542	240	2270	417	243	55	44	57	73
23	66	63	66	676	238	1700	378	203	55	44	57	73
24	66	64	67	695	237	1230	348	241	55	47	56	74
25	66	66	66	644	236	1020	318	243	55	45	56	74
26	65	63	67	646	236	944	294	244	49	45	56	74
27	65	63	67	804	232	923	287	245	43	46	57	73
28	65	63	67	1450	231	942	289	246	42	46	57	73
29	65	63	67	1760	---	990	455	247	47	45	59	73
30	64	63	69	3470	---	996	928	160	46	45	58	73
31	64	---	69	4560	---	946	---	61	---	47	58	---
TOTAL	2103	1893	2028	77182	22388	61691	25201	13919	1622	1389	1602	2039
MEAN	67.8	63.1	65.4	2490	800	1990	840	449	54.1	44.8	51.7	68.0
MAX	72	66	69	11300	5290	5760	2220	1720	61	51	59	76
MIN	64	62	63	68	231	234	287	61	42	43	45	57
AC-FT	4170	3750	4020	153100	44410	122400	49990	27610	3220	2760	3180	4040

11480410 MAD RIVER BELOW RUTH RESERVOIR, NEAR FOREST GLEN, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	89.3	165	396	569	724	723	375	153	92.6	66.6	82.1	88.6
MAX	118	607	1738	2490	2993	1990	1426	449	408	89.3	103	101
(WY)	1984	1985	1982	1995	1986	1995	1982	1995	1993	1987	1990	1986
MIN	64.4	24.5	8.35	8.02	7.61	24.4	28.0	47.8	38.2	42.5	45.1	57.0
(WY)	1982	1993	1987	1992	1991	1988	1988	1987	1991	1982	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1981 - 1995	
ANNUAL TOTAL	38097.0		213057			
ANNUAL MEAN	104		584		292	
HIGHEST ANNUAL MEAN					591	1983
LOWEST ANNUAL MEAN					101	1991
HIGHEST DAILY MEAN	769	Mar 1	11300	Jan 9	13400	Feb 17 1986
LOWEST DAILY MEAN	9.5	May 3	42	Jun 28	5.6	Mar 2 1991
ANNUAL SEVEN-DAY MINIMUM	41	May 25	44	Jul 7	6.0	Feb 19 1991
INSTANTANEOUS PEAK FLOW			12700	Jan 9	17800	Feb 17 1986
INSTANTANEOUS PEAK STAGE			13.57	Jan 9	17.61	Feb 17 1986
ANNUAL RUNOFF (AC-FT)	75570		422600		211300	
10 PERCENT EXCEEDS	237		1550		686	
50 PERCENT EXCEEDS	63		69		92	
90 PERCENT EXCEEDS	43		46		36	

11481000 MAD RIVER NEAR ARCATA, CA

LOCATION.--Lat 40°54'35", long 124°03'35", in NW 1/4 NW 1/4 sec.15, T.6 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft upstream from bridge on U.S. Highway 299, 1.0 mi downstream from Warren Creek, and 2.8 mi northeast of Arcata.

DRAINAGE AREA.--485 mi^2.

PERIOD OF RECORD.--October 1910 to September 1913, August 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 2129: 1965(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 10.79 ft above sea level. December 1910 to September 1913, nonrecording gage at site 0.1 mi upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi upstream at datum 11.00 ft higher. July 24, 1956, to Aug. 10, 1992, water-stage recorder at different datums, at present site.

REMARKS.--Records fair including estimated daily discharges. Flow regulated by Ruth Reservoir (station 11480400), 68 mi upstream, beginning in July 1961. Water is diverted 0.5 mi upstream from station for municipal supply and industrial use in Humboldt Bay area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft^3/s, Dec. 22, 1964, gage height, 30.7 ft, prior datum, from high-water profile and flood-routing study; minimum daily, 0.10 ft^3/s, Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,100 ft^3/s, Jan. 9, gage height, 20.76 ft; minimum daily, 32 ft^3/s, Oct. 7, Sept. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	91	2140	1650	14400	629	3120	3940	386	210	58	40
2	46	98	2710	1670	10100	794	3140	4550	364	198	53	38
3	35	73	1720	1530	6230	1780	3160	3780	361	175	52	37
4	34	71	1250	1470	4400	1780	3170	3070	351	157	48	37
5	33	122	977	2000	3450	1620	3190	2660	352	148	50	34
6	35	134	951	3800	2790	1430	3970	2380	296	136	54	34
7	32	112	890	e9000	2380	1280	7170	2080	e270	128	58	33
8	35	106	776	e18000	2080	1440	7940	1820	e264	128	56	33
9	36	473	676	e32000	1800	11600	6580	1570	e258	121	56	33
10	36	546	622	e20000	1560	12400	5150	1860	e250	119	56	33
11	34	257	668	19000	1320	13100	4270	1620	e247	112	56	32
12	37	170	1070	17900	1130	10400	4210	1710	241	123	54	33
13	38	138	974	14600	1800	7840	7550	2640	241	122	46	35
14	46	124	838	19200	1700	12000	5620	2230	287	109	39	45
15	48	162	967	15900	1290	12800	4540	1790	857	103	39	47
16	44	905	5700	9980	1080	8360	3970	1540	649	94	40	49
17	40	2880	5200	7000	926	5720	3460	1350	450	89	43	48
18	42	1470	3940	5420	970	6160	3230	1180	654	86	50	45
19	41	702	2910	4600	896	5740	2780	1050	796	86	51	46
20	41	1020	2060	3920	e1010	10000	3180	950	764	89	51	45
21	40	1170	1560	3350	e980	9850	2880	884	587	88	49	45
22	40	721	1310	3280	e950	8980	2540	840	474	89	43	45
23	40	516	1190	4280	804	7230	2270	784	397	88	42	46
24	39	665	1780	4000	766	5750	2050	709	354	86	42	47
25	39	3490	1780	3770	734	4730	1790	693	323	86	41	55
26	38	2460	1520	4200	699	4230	1570	669	295	85	42	56
27	44	1660	2170	4820	673	3980	1700	642	271	77	39	60
28	68	1680	4220	6130	644	3840	1640	617	249	73	37	68
29	74	1150	2630	6280	---	3850	2030	585	227	71	37	67
30	56	990	2090	10600	---	3500	2560	561	213	69	36	59
31	50	---	1710	13800	---	3180	---	513	---	64	36	---
TOTAL	1321	24156	58999	273150	67562	185993	110430	51267	11728	3409	1454	1325
MEAN	42.6	805	1903	8811	2413	6000	3681	1654	391	110	46.9	44.2
MAX	74	3490	5700	32000	14400	13100	7940	4550	857	210	58	68
MIN	32	71	622	1470	644	629	1570	513	213	64	36	32
AC-FT	2620	47910	117000	541800	134000	368900	219000	101700	23260	6760	2880	2630
a	2681	2379	2374	2398	2332	2729	2194	2486	2467	2783	2719	2633

e Estimated.
a Diversion, in acre-feet, for municipal supply and industrial use; provided by Humboldt Bay Municipal Water District.

11481000 MAD RIVER NEAR ARCATA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1960, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	313	1081	2997	4588	4164	2438	1716	1167	358	97.2	40.3	39.3
MAX	2303	2903	9335	9175	9830	5054	3450	2669	1311	210	68.2	128
(WY)	1951	1954	1956	1953	1958	1957	1958	1953	1953	1953	1953	1912
MIN	22.0	32.0	136	852	1232	1028	489	277	104	36.6	19.2	18.2
(WY)	1953	1960	1960	1960	1955	1955	1951	1954	1959	1959	1959	1951

SUMMARY STATISTICS	WATER YEARS 1911 - 1960	
ANNUAL MEAN	1573	
HIGHEST ANNUAL MEAN	2377	1958
LOWEST ANNUAL MEAN	943	1955
HIGHEST DAILY MEAN	63100	Dec 22 1955
LOWEST DAILY MEAN	17	Sep 8 1951
ANNUAL SEVEN-DAY MINIMUM	17	Sep 4 1959
INSTANTANEOUS PEAK FLOW	77800	Dec 22 1955
INSTANTANEOUS PEAK STAGE	27.30	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	1139000	
10 PERCENT EXCEEDS	4010	
50 PERCENT EXCEEDS	400	
90 PERCENT EXCEEDS	31	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	217	1338	2640	3347	2840	2883	1768	658	231	56.8	44.6	65.9
MAX	2255	6671	10400	8847	9796	7150	6253	1654	1721	152	123	392
(WY)	1963	1974	1965	1970	1986	1975	1963	1995	1993	1964	1983	1986
MIN	21.3	52.6	29.8	135	138	194	165	122	31.2	8.40	7.04	15.0
(WY)	1993	1994	1977	1977	1977	1988	1988	1968	1974	1977	1977	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1963 - 1995	
ANNUAL TOTAL	273794		790794			
ANNUAL MEAN	750		2167		1335	
HIGHEST ANNUAL MEAN					2478	1974
LOWEST ANNUAL MEAN					151	1977
HIGHEST DAILY MEAN	6050	Feb 18	32000	Jan 9	58000	Dec 22 1964
LOWEST DAILY MEAN	24	Aug 15	32	Oct 7	.10	Aug 29 1977
ANNUAL SEVEN-DAY MINIMUM	27	Aug 13	33	Sep 6	.63	Aug 23 1977
INSTANTANEOUS PEAK FLOW			38100	Jan 9	81000	Dec 22 1964
INSTANTANEOUS PEAK STAGE			20.76	Jan 9	30.70	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	543100		1569000		967000	
10 PERCENT EXCEEDS	2150		5740		3670	
50 PERCENT EXCEEDS	346		709		265	
90 PERCENT EXCEEDS	35		40		30	

11481200 LITTLE RIVER NEAR TRINIDAD, CA

LOCATION.--Lat 41°00'40", long 124°04'50", in NE 1/4 sec.8, T.7 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 0.5 mi upstream from Coon Creek, 4.7 mi southeast of Trinidad, and 9.1 mi north of Arcata.

DRAINAGE AREA.--40.5 mi^2.

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1971, published as "at Crannell."

REVISED RECORDS.--WSP 2129: 1956-60. WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. No storage or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft^3/s, Mar. 18, 1975, gage height, 14.19 ft, from rating curve extended above 3,100 ft^3/s on basis of slope-area measurement at gage height 14.08 ft; minimum daily, 1.8 ft^3/s, Sept. 25-29, 1991.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 17-18, 1953, reached a stage of 15.7 ft, observed by an employee of Hammond Lumber Co.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	unknown	*4,350	*9.18				

Minimum daily, 3.4 ft^3/s, Oct. 1-13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	e15	e210	e170	e1300	55	118	240	42	34	15	9.3
2	3.4	e13	e300	e166	e875	81	104	222	42	34	14	8.9
3	3.4	e11	e245	e154	e690	233	95	168	42	32	14	8.6
4	3.4	e8.1	e200	e148	e520	265	89	138	42	30	14	8.6
5	3.4	e35	e160	e175	e400	236	137	122	44	29	13	8.6
6	3.4	e25	e135	e250	e290	188	248	105	39	28	14	8.5
7	3.4	e21	e145	e610	e215	143	666	97	36	27	13	8.0
8	3.4	e17	e130	e1300	e175	162	637	90	34	26	13	8.0
9	3.4	e85	e120	e2200	e140	730	458	94	33	26	12	8.0
10	3.4	e72	e111	e2000	121	641	309	108	36	26	12	7.7
11	3.4	e30	e160	771	110	592	236	100	47	25	12	7.6
12	3.4	e24	e210	1560	103	456	276	100	37	25	12	7.4
13	3.4	e18	e200	1200	279	373	779	204	34	25	12	7.4
14	4.5	e14	e190	1170	237	1270	429	135	51	23	12	7.4
15	5.2	e18	e180	936	168	857	324	110	126	22	11	7.4
16	5.2	e82	e770	729	137	503	270	98	74	21	11	7.4
17	4.8	e360	e590	655	120	338	219	91	56	20	11	7.5
18	4.7	e200	e560	e535	111	431	200	83	101	19	11	7.7
19	4.7	e130	e390	e425	98	375	167	79	118	19	10	6.8
20	4.7	e145	e295	e370	92	1190	213	74	110	19	10	6.6
21	4.7	e160	e235	e315	86	826	184	72	78	19	9.7	5.7
22	4.3	e130	e195	e290	81	1010	150	68	64	19	9.3	5.7
23	4.2	e108	e170	e310	76	855	128	64	55	19	9.3	5.7
24	4.2	e250	e225	e250	71	586	114	59	51	19	9.3	5.7
25	4.2	e650	e200	e220	67	420	103	56	47	19	8.7	9.1
26	4.2	e270	e170	e260	63	319	96	53	42	19	8.6	8.5
27	5.4	e260	e210	e310	61	251	111	53	39	19	8.6	7.9
28	39	e210	e440	e370	57	204	103	49	37	18	8.6	8.0
29	e21	e170	e340	e340	---	170	115	47	35	17	8.6	8.0
30	e11	e135	e250	e880	---	144	102	45	35	16	8.9	7.6
31	e6.7	---	e175	e1100	---	127	---	44	---	16	9.3	---
TOTAL	186.9	3666.1	7911	20169	6743	14031	7180	3068	1627	710	344.9	229.3
MEAN	6.03	122	255	651	241	453	239	99.0	54.2	22.9	11.1	7.64
MAX	39	650	770	2200	1300	1270	779	240	126	34	15	9.3
MIN	3.4	8.1	111	148	57	55	89	44	33	16	8.6	5.7
AC-FT	371	7270	15690	40010	13370	27830	14240	6090	3230	1410	684	455

e Estimated.

11481200 LITTLE RIVER NEAR TRINIDAD, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	28.6	164	302	328	284	264	139	74.2	33.4	13.0	8.24	7.91
MAX	202	849	1083	1145	816	819	521	271	167	31.4	23.3	28.4
(WY)	1963	1974	1965	1970	1986	1975	1963	1960	1993	1983	1983	1986
MIN	4.70	4.62	7.45	28.2	19.7	35.5	22.1	21.9	12.2	6.12	3.59	3.89
(WY)	1988	1994	1977	1977	1977	1988	1977	1987	1966	1959	1959	1987

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1956 - 1995	
ANNUAL TOTAL	30583.1		65866.2			
ANNUAL MEAN	83.8		180		137	
HIGHEST ANNUAL MEAN					240	1974
LOWEST ANNUAL MEAN					23.8	1977
HIGHEST DAILY MEAN	1020	Jan 24	2200	Jan 9	7860	Mar 18 1975
LOWEST DAILY MEAN	3.4	Sep 28	3.4	Oct 1	1.8	Sep 25 1991
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 28	3.4	Oct 1	1.9	Sep 24 1991
INSTANTANEOUS PEAK FLOW			4350	Jan 9	9830	Mar 18 1975
INSTANTANEOUS PEAK STAGE			9.18	Jan 9	14.19	Mar 18 1975
ANNUAL RUNOFF (AC-FT)	60660		130600		99040	
10 PERCENT EXCEEDS	210		476		356	
50 PERCENT EXCEEDS	35		79		34	
90 PERCENT EXCEEDS	4.7		7.4		5.8	

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA

LOCATION.--Lat 40°54'22", long 123°48'51", in SE 1/4 NE 1/4 sec.15, T.6 N., R.3 E., Humboldt County, Hydrologic Unit 18010102, on right bank 400 ft upstream from Lupton Creek and 9.1 mi east of town of Blue Lake.

DRAINAGE AREA.--67.7 mi^2.

PERIOD OF RECORD.--Water years 1973 to current year.
SURFACE WATER: Water years 1953-58, 1972-93.
CHEMICAL DATA: Water years 1974-75.
WATER TEMPERATURE: Water years 1973-92.
SEDIMENT DATA: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
SURFACE WATER: June 1953 to September 1958, October 1972 to September 1993.
WATER TEMPERATURE: October 1972 to September 1981, October 1981 to current year (storm season only).
SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1981, October 1981 to September 1992.

REMARKS.--Periodic total load sampling above 1,000 ft^3/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC						
16...	1515	1980	6.5	883	4720	58
16...	1710	1700	7.0	746	3420	60
16...	1720	1680	7.0	892	4050	49
JAN						
08...	1115	2750	7.0	1780	13200	57
08...	1305	2340	7.0	1460	9220	58
08...	1540	1910	7.0	1400	7220	52

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)
DEC									
16...	1540	1000	1100	0.250	0	1530	1550	10	4.0
16...	1605	1000	1100	0.250	0	1555	1610	10	4.0
JAN									
08...	1335	1000	1100	0.250	0	1330	1340	15	5.0
08...	1355	1000	1100	0.250	0	1350	1405	15	5.0
08...	1610	1000	1100	0.250	0	1600	1625	15	4.0
08...	1630	1000	1100	0.250	0	1630	1650	15	4.0

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COMPOSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
DEC									
16...	2	20	20	2.0	1940	6.5	12.6	805	1
16...	2	20	20	2.0	1900	6.5	7.5	805	2
JAN									
08...	2	17	17	3.0	2250	7.0	14.7	955	1
08...	2	17	17	3.0	2210	7.0	7.8	955	2
08...	2	21	21	2.0	1880	7.0	11.1	790	1
08...	2	21	21	2.0	1820	7.0	7.7	790	1

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, OCTOBER 1994 TO SEPTEMBER 1995

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 128 MM
DEC									
16...	6	17	31	47	62	78	92	96	100
16...	11	26	44	60	72	81	89	100	--
JAN									
08...	5	11	19	28	38	53	77	96	100
08...	9	21	34	47	62	80	94	100	--
08...	5	12	19	27	40	56	79	100	--
08...	4	13	25	38	52	73	90	97	100

11482500 REDWOOD CREEK AT ORICK, CA

LOCATION.--Lat 41°17'58", long 124°03'00", in NE 1/4 NE 1/4 sec.34, T.11 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank on U.S. Highway 101, 0.8 mi north of Orick, 300 ft downstream from Prairie Creek, and 3.7 mi upstream from mouth.
DRAINAGE AREA.--277 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1912-13.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 5.16 ft above sea level. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum. October 1953 to Apr. 16, 1987, at site 0.9 mi downstream at same datum. May 7, 1987, to Aug. 3, 1987, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft^3/s, Dec. 22, 1964, gage height, 24.0 ft, former site, from outside high-water marks; minimum daily, 2.1 ft^3/s, Oct. 20-22, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 18, 1953, reached a stage of 23.95 ft, former site, from floodmarks, discharge, 50,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1430	*18,600	*21.48	Mar. 20	1400	10,100	18.65
Jan. 31	2330	11,100	19.02				

Minimum daily, 6.5 ft^3/s, Oct. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	93	1550	1030	8950	264	1350	1580	362	205	79	34
2	8.1	90	1970	917	5440	331	1230	1830	349	200	73	34
3	8.1	65	1410	808	3590	709	1110	1530	339	187	71	32
4	7.6	52	1080	723	2700	885	1010	1330	333	178	67	31
5	7.2	216	844	940	2130	847	1040	1200	336	170	65	29
6	7.2	157	899	1830	1750	737	1640	1120	316	158	65	29
7	7.2	98	965	3640	1480	612	3390	1020	290	156	63	29
8	7.2	75	835	6110	1310	721	4620	925	277	155	61	27
9	7.2	531	720	14500	1130	5430	3740	915	257	151	58	27
10	7.0	461	652	13300	989	4610	2720	1130	270	153	58	25
11	6.5	203	732	9420	876	5320	2200	1010	308	155	58	25
12	6.7	136	1340	9960	817	4280	2100	984	262	151	57	25
13	6.7	106	1200	8170	1150	3420	5010	1540	246	151	57	24
14	7.4	88	1000	9970	1020	6310	3660	1300	298	146	53	23
15	8.5	143	947	9820	839	6750	2830	1140	639	138	52	22
16	8.6	1000	5060	6430	770	4130	2440	1020	498	130	50	22
17	8.6	2540	4590	4150	740	3050	2070	906	387	122	48	22
18	8.6	1380	3250	3080	830	4100	1910	825	442	113	46	22
19	8.6	641	2550	2460	716	3620	1670	766	537	112	45	22
20	8.6	841	1930	1960	639	7750	1850	712	534	109	44	22
21	8.6	889	1470	1560	583	6800	1720	659	461	108	42	20
22	8.6	558	1170	1440	525	6810	1530	627	401	106	40	19
23	8.6	413	967	1630	472	5840	1380	587	361	106	38	19
24	8.6	1470	1110	1310	427	4390	1260	548	326	107	37	19
25	11	4140	1060	1150	391	3420	1150	516	300	109	36	22
26	12	2350	972	1520	357	2820	1060	489	276	109	34	25
27	11	1810	1500	1680	319	2380	1090	464	254	105	34	28
28	75	1790	2840	2190	287	2030	1080	441	238	98	33	42
29	59	1200	1980	1990	---	1800	1130	421	226	93	40	40
30	43	919	1530	5690	---	1630	1070	400	205	88	38	38
31	26	---	1190	7860	---	1460	---	381	---	83	35	---
TOTAL	425.1	24455	49313	137238	41227	103256	60060	28316	10328	4152	1577	798
MEAN	13.7	815	1591	4427	1472	3331	2002	913	344	134	50.9	26.6
MAX	75	4140	5060	14500	8950	7750	5010	1830	639	205	79	42
MIN	6.5	52	652	723	287	264	1010	381	205	83	33	19
AC-FT	843	48510	97810	272200	81770	204800	119100	56160	20490	8240	3130	1580

11482500 REDWOOD CREEK AT ORICK, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	161	1091	2064	2428	2146	1968	1220	628	259	86.9	42.4	39.7
MAX	1559	5219	8981	6041	6320	5565	4026	1732	1213	194	91.6	149
(WY)	1963	1974	1965	1956	1986	1975	1963	1912	1993	1993	1968	1986
MIN	2.91	35.3	42.1	180	190	297	251	188	77.3	35.7	9.89	4.44
(WY)	1988	1960	1977	1977	1977	1988	1988	1987	1987	1987	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1911 - 1995	
ANNUAL TOTAL	209192.3		461145.1			
ANNUAL MEAN	573		1263		1007	
HIGHEST ANNUAL MEAN					1726	1974
LOWEST ANNUAL MEAN					192	1977
HIGHEST DAILY MEAN	5060	Dec 16	14500	Jan 9	43200	Dec 22 1964
LOWEST DAILY MEAN	6.5	Oct 11	6.5	Oct 11	2.1	Oct 20 1987
ANNUAL SEVEN-DAY MINIMUM	6.9	Oct 7	6.9	Oct 7	2.2	Oct 17 1987
INSTANTANEOUS PEAK FLOW			18600	Jan 9	50500	Dec 22 1964
INSTANTANEOUS PEAK STAGE			21.48	Jan 9	24.00	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	414900		914700		729300	
10 PERCENT EXCEEDS	1510		3600		2700	
50 PERCENT EXCEEDS	325		534		304	
90 PERCENT EXCEEDS	12		22		25	

11482500 REDWOOD CREEK AT ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to September 1980, October 1981 to current year (storm season only).
CHEMICAL DATA: Water years 1959-66, 1973-81.
WATER TEMPERATURE: Water years 1966 to current year.
SEDIMENT DATA: Water years 1955-56, 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1965 to September 1981, October 1981 to September 1992 (storm season only).
SUSPENDED-SEDIMENT DISCHARGE: March 1970 to September 1981, October 1981 to September 1992 (storm season only).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 9,610 mg/L, Mar. 18, 1975; minimum daily mean, 0 mg/L, Nov. 10-12, 1986, Apr. 20, 29, 30, 1987, several days during 1989-90, many days during 1991.
SEDIMENT LOAD: Maximum daily, 1,070,000 tons, Mar. 18, 1975; minimum daily, 0 tons, Nov. 10-12, 1986, Apr. 20, 29, 30, 1987, several days during 1989-90, many days during 1991.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN						
11...	1225	9230	9.5	940	23400	78
FEB						
01...	1245	8650	10.5	721	16800	70
01...	1510	8460	10.5	646	14800	70
MAR						
11...	1510	5140	9.5	515	7150	75
11...	1730	5360	9.5	523	7570	76

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	NUMBER OF SAMPLING POINTS (COUNT)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JAN							
11...	1535	1	9460	9.5	2	23	43
11...	1545	1	9460	9.5	--	2	3
11...	1600	1	9460	9.5	--	1	2
11...	1605	1	9460	9.5	--	2	7
11...	1610	1	9460	9.5	--	2	7

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JAN							
11...	48	54	85	100	--	--	--
11...	3	6	26	54	69	76	100
11...	2	4	12	28	54	84	100
11...	14	31	49	71	88	100	--
11...	20	47	73	89	100	--	--

11482500 REDWOOD CREEK AT ORICK, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)
JAN									
11...	1330	1000	1100	0.250	0	1300	1405	15	6.0
11...	1440	1000	1100	0.250	0	1410	1510	15	6.0
FEB									
01...	1330	1000	1100	0.250	0	1315	1340	10	10.0
01...	1410	1000	1100	0.250	0	1400	1420	10	10.0
01...	1545	1000	1100	0.250	0	1530	1600	10	10.0
01...	1630	1000	1100	0.250	0	1615	1645	10	10.0
MAR									
11...	1130	1000	1100	0.250	0	1115	1145	10	8.0
11...	1220	1000	1100	0.250	0	1205	1235	10	8.0
11...	1625	1000	1100	0.250	0	1610	1635	10	8.0
11...	1650	1000	1100	0.250	0	1640	1705	10	8.0

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COMPOSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN									
11...	2	49	49	1.50	9250	9.5	9.10	2850	1
11...	2	49	49	1.50	9380	9.5	10.3	2850	2
FEB									
01...	2	22	22	5.00	8550	10.5	18.5	3170	1
01...	2	22	22	5.00	8550	10.5	10.3	3170	2
01...	2	22	22	5.00	8400	10.5	17.9	4880	1
01...	2	22	22	5.00	8330	10.5	26.5	4880	1
MAR									
11...	2	21	21	1.00	4890	9.5	26.7	3970	1
11...	2	21	21	1.00	4850	9.5	20.6	3970	1
11...	2	21	21	2.50	5280	9.5	13.4	1850	2
11...	2	21	21	2.50	5280	9.5	8.60	1850	2

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 128 MM
JAN									
11...	5	18	34	48	63	79	96	96	100
11...	5	11	21	35	51	69	90	98	100
FEB									
01...	8	18	27	42	60	82	97	100	--
01...	10	20	30	43	60	81	96	100	--
01...	10	21	35	51	71	90	99	100	--
01...	6	15	22	34	55	81	96	100	--
MAR									
11...	4	9	18	32	50	70	90	100	--
11...	6	15	28	44	56	71	91	100	--
11...	12	26	36	48	64	78	94	100	--
11...	9	21	38	52	66	80	91	100	--

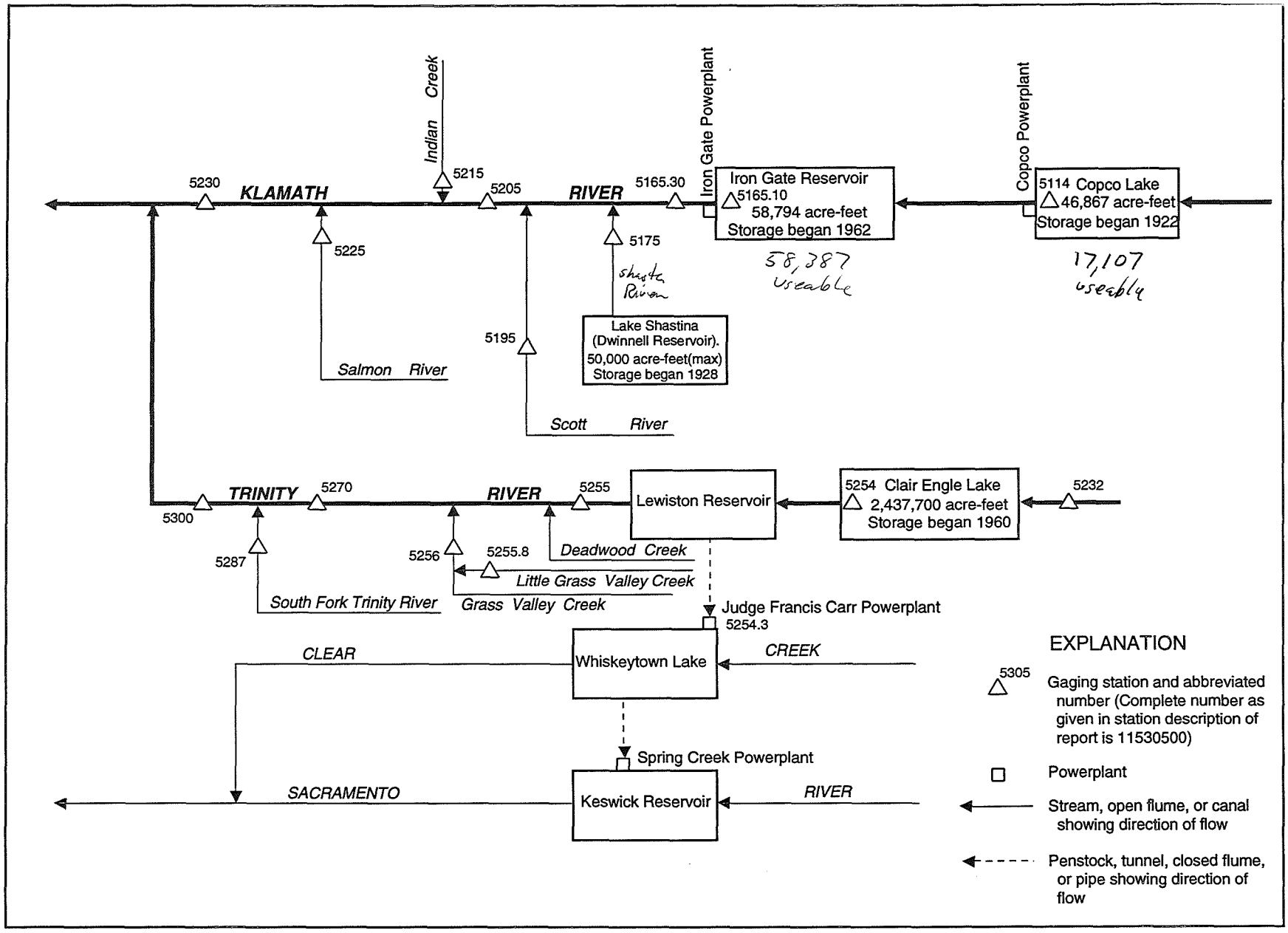


Figure 23. Diversions and storage in Klamath River and Trinity River basins.

RESERVOIRS IN KLAMATH RIVER BASIN, CA

11511400 COPCO LAKE NEAR COPCO.--Lat 41°58'46", long 122°20'00", in SE 1/4 SW 1/4 sec.29, T.48 N., R.4 W., Siskiyou County, Hydrologic Unit 18010206, 12.7 mi northeast of Hornbrook. DRAINAGE AREA, 4,300 mi^2, approximately (not including Lost River, Butte Creek, or Lower Klamath Lake basins). PERIOD OF RECORD, October 1967 to current year (monthend contents only). GAGE, pressure device and telemark read once daily. Datum of gage is sea level (levels by PacifiCorp, formerly Pacific Power and Light Co.). Monthend contents computed from capacity table provided by Pacific Power and Light Co., dated Aug. 25, 1964.

REMARKS.--Lake is formed by gravity-type dam completed in 1922. Usable capacity, 17,107 acre-ft between elevations 2,607.5 ft, top of tainter gates, and 2,588.5 ft, invert to powerplant intake. Dead storage 29,760 acre-ft below elevation 2,588.5 ft. Figures given represent total contents at 0800 hours. Lake is used for power generation. See schematic diagram of Klamath River and Trinity River basins.

COOPERATION.--Records were provided by PacifiCorp, formerly Pacific Power & Light Co., in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 46,818 acre-ft, June 24, 1969, elevation, 2,607.45 ft; minimum since first filling, 30,360 acre-ft, Aug. 19, 1971, elevation, 2,589.24 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents, 46,621 acre-ft, June 18, elevation, 2,607.25 ft; minimum, 39,342 acre-ft, Mar. 19, elevation, 2,599.60 ft.

11516510 IRON GATE RESERVOIR NEAR HORNBROOK.--Lat 41°55'58", long 122°26'06", in SW 1/4 SW 1/4 sec.9, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, 6.6 mi northeast of Hornbrook. DRAINAGE AREA, 4,573 mi^2, approximately (not including Lost River, Butte Creek, or Lower Klamath Lake basins). PERIOD OF RECORD, October 1967 to current year (monthend contents only). GAGE, pressure device and telemark read once daily. Datum of gage is sea level (levels by PacifiCorp, formerly Pacific Power and Light Co.). Monthend contents computed from capacity table provided by Pacific Power and Light Co., dated Feb. 15, 1960.

REMARKS.--Reservoir is formed by earth and rockfill dam completed in 1962. Usable capacity, 58,387 acre-ft, between elevations 2,328.0 ft, crest of spillway, and 2,184.75 ft, invert to diversion tunnel. Dead storage 407 acre-ft. Normal operating pool is from elevations 2,305.0 ft, capacity, 39,963 acre-ft, to 2,328.0 ft, capacity, 58,794 acre-ft. Figures given represent total contents at 0800 hours. Reservoir is used for power generation and recreation. See schematic diagram of Klamath River and Trinity River basins.

COOPERATION.--Records were provided by PacifiCorp, formerly Pacific Power and Light Co., in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 61,776 acre-ft, Mar. 3, 1972, elevation, 2,330.96 ft; minimum since first filling, 50,103 acre-ft, Dec. 9, 1968, elevation, 2,318.40 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents, 60,723 acre-ft, Mar. 18, elevation, 2,329.93 ft; minimum, 54,695 acre-ft, Dec. 12, elevation, 2,323.66 ft.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	11511400 COPCO LAKE			11516510 IRON GATE RESERVOIR		
Sept. 30	2,603.80	43,268	--	2,324.66	55,613	--
Oct. 31	2,601.40	41,005	-2,263	2,324.15	55,142	-471
Nov. 30	2,602.30	41,848	+843	2,324.08	55,170	+28
Dec. 31	2,601.75	41,332	-516	2,324.16	55,151	-19
CAL YR 1994	--	--	-280	--	--	-815
Jan. 31	2,605.56	44,953	+3,621	2,327.22	58,035	+2,884
Feb. 28	2,605.15	44,565	-388	2,325.30	56,210	-1,825
Mar. 31	2,600.40	40,078	-4,487	2,328.48	59,269	+3,059
Apr. 30	2,605.30	44,710	+4,632	2,328.26	59,051	-218
May 31	2,606.50	45,881	+1,171	2,326.57	57,411	-1,640
June 30	2,605.50	44,904	-977	2,326.25	57,106	-305
July 31	2,606.25	45,635	+731	2,326.20	57,058	-48
Aug. 31	2,604.50	43,938	-1,697	2,326.08	56,943	-115
Sept. 30	2,603.65	43,126	-812	2,325.52	56,417	-526
WTR YR 1995	--	--	-142	--	--	+804

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA

LOCATION.--Lat 41°55'41", long 122°26'35", in SE 1/4 NE 1/4 sec.17, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, on left bank 0.1 mi downstream from Bogus Creek, 0.6 mi downstream from Iron Gate Dam, and 5.9 mi northeast of Hornbrook.

DRAINAGE AREA.--4,630 mi^2, approximately (not including Lost River, Butte Creek, or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1960 to current year.
CHEMICAL DATA: Water years 1962-81.
WATER TEMPERATURE: Water years 1963-80.

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft above sea level (levels by PacifiCorp, formerly Pacific Power & Light Co.).

REMARKS.--No estimated daily discharges. Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft; Iron Gate Reservoir (station 11516510), other smaller reservoirs, and diversions upstream from station. See schematic diagram of Klamath River and Trinity River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft^3/s, Dec. 22, 1964, gage height, 13.63 ft, from rating curve extended above 15,000 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 389 ft^3/s, Aug. 25-28, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,380 ft^3/s, Mar. 18, gage height, 8.90 ft; minimum daily, 729 ft^3/s, July 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	919	962	890	962	2760	972	2530	2930	805	762	1030	1350
2	920	958	890	962	2090	1030	2570	4430	796	761	1030	1350
3	916	953	890	961	1630	1230	2650	4690	797	761	1030	1350
4	915	927	888	960	1210	1400	2730	4750	797	761	1030	1350
5	916	912	886	961	969	1630	2770	4910	801	762	1030	1350
6	916	907	888	961	966	1780	2920	5070	802	771	1040	1350
7	919	907	886	963	966	1490	3060	5020	786	762	1040	1350
8	922	907	921	969	962	1410	3580	4740	755	763	1040	1350
9	922	919	955	1000	960	1410	4000	4040	751	771	1040	1350
10	927	912	958	1180	984	1670	4130	4030	749	768	1050	1350
11	927	908	959	1540	986	2860	4110	4100	748	756	1040	1350
12	931	907	958	1610	984	2960	4250	4090	747	741	1040	1350
13	933	907	958	1410	985	3030	4970	4980	747	735	1040	1350
14	935	907	960	1770	985	3660	4740	5730	1080	733	1040	1340
15	938	907	960	2670	989	5620	4730	5760	1240	733	1040	1350
16	938	906	962	2390	972	7310	4770	4900	1490	731	1040	1350
17	944	908	964	1420	960	8740	4810	3890	1750	729	1040	1350
18	944	907	966	955	960	8630	4800	2990	1750	733	1040	1350
19	944	906	966	958	960	6440	3570	2440	1660	731	1040	1350
20	950	905	964	950	959	6290	2530	2200	1560	730	1040	1350
21	943	904	963	948	954	6620	2170	2170	1560	736	1050	1350
22	944	897	962	943	954	6570	2140	1830	1560	733	1040	1350
23	944	890	961	956	954	6460	2110	1470	1450	733	1040	1350
24	949	892	963	964	954	6270	2160	1470	1320	734	1040	1350
25	949	900	965	968	961	6320	2250	1400	1310	733	1040	1350
26	952	891	963	984	972	6310	2210	1240	1190	735	1040	1350
27	951	890	963	985	973	5750	2260	1100	901	733	1040	1350
28	954	890	973	999	971	5100	2270	1100	770	736	1040	1350
29	959	890	965	990	---	4560	2420	1110	760	736	1040	1350
30	957	890	963	1020	---	4290	2330	1100	762	736	1040	1350
31	962	---	961	1610	---	2750	---	1100	---	764	1070	---
TOTAL	29040	27266	29271	36919	30930	130562	96540	100780	32194	23103	32240	40490
MEAN	937	909	944	1191	1105	4212	3218	3251	1073	745	1040	1350
MAX	962	962	973	2670	2760	8740	4970	5760	1750	771	1070	1350
MIN	915	890	886	943	954	972	2110	1100	747	729	1030	1340
AC-FT	57600	54080	58060	73230	61350	259000	191500	199900	63860	45820	63950	80310

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1673	2165	2775	2795	2872	3555	2959	2011	1036	750	967	1303
MAX	3353	5254	6735	9489	9150	10780	6922	4973	2591	1429	1208	2052
(WY)	1985	1985	1984	1965	1965	1972	1971	1971	1983	1982	1965	1965
MIN	852	873	889	888	525	511	572	512	506	428	398	538
(WY)	1982	1992	1992	1992	1992	1992	1994	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	286281		609335			
ANNUAL MEAN	784		1669		2068	
HIGHEST ANNUAL MEAN					3657	1965
LOWEST ANNUAL MEAN					641	1992
HIGHEST DAILY MEAN	1380	Jan 1	8740	Mar 17	25000	Dec 22 1964
LOWEST DAILY MEAN	541	May 7	729	Jul 17	389	Aug 25 1992
ANNUAL SEVEN-DAY MINIMUM	563	May 2	731	Jul 14	390	Aug 24 1992
INSTANTANEOUS PEAK FLOW			9380	Mar 18	29400	Dec 22 1964
INSTANTANEOUS PEAK STAGE			8.90	Mar 18	13.63	Dec 22 1964
INSTANTANEOUS LOW FLOW					389	Aug 25 1992
ANNUAL RUNOFF (AC-FT)	567800		1209000		1498000	
10 PERCENT EXCEEDS	963		4100		3960	
50 PERCENT EXCEEDS	775		989		1390	
90 PERCENT EXCEEDS	569		766		729	

11517500 SHASTA RIVER NEAR YREKA, CA

OCATION.--Lat 41°49'23", long 122°35'40", in SE 1/4 NE 1/4 sec.24, T.46 N., R.7 W., Siskiyou County, Hydrologic Unit 18010207, on right bank 24 mi downstream from Lake Shastina, 0.5 mi upstream from mouth, and 7 mi north of Yreka.

RAINAGE AREA.--793 mi^2.

ERIOD OF RECORD.--October 1933 to December 1941, December 1944 to current year.
CHEMICAL DATA: Water years 1959-79.
WATER TEMPERATURE: Water years 1965-79.
SEDIMENT DATA: Water years 1955-56, 1958-62.

EVISED RECORDS.--WSP 1929: Drainage area.

AGE.--Water-stage recorder and concrete control. Elevation of gage is 2,000 ft above sea level, from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

EMARKS.--No estimated daily discharges. Records good. Low flow completely regulated by Lake Shastina (formerly Lake Dwinnell) beginning in 1928; storage limited to 50,000 acre-ft. Small powerplant, 5.6 miles upstream, has operated intermittently since summer of 1987. Many diversions upstream from station for irrigation. See schematic diagram of Klamath River and Trinity River basins.

XTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft^3/s, Dec. 22, 1964, gage height, 12.92 ft, in gage well, 13.85 ft, from floodmarks, from rating curve extended above 4,100 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 1.5 ft^3/s, Aug. 24, 1981, July 17, 1985.

XTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 630 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
an. 11	0100	1,010	5.83	Mar. 11	0945	*1,240	*6.43
eb. 1	1400	740	5.31	Mar. 23	1200	1,210	6.36

Minimum daily, 35 ft^3/s, Aug. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

AY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	123	135	140	688	155	308	355	114	178	79	61
2	112	131	134	139	594	225	297	369	119	155	73	56
3	99	138	132	139	437	353	264	369	118	145	69	55
4	96	146	134	139	351	320	251	371	118	134	62	48
5	95	154	134	140	300	248	245	373	118	126	52	47
6	91	152	134	141	269	220	274	397	124	122	45	54
7	92	149	134	140	247	208	313	445	145	106	35	56
8	92	146	133	148	232	205	422	403	157	112	38	65
9	94	155	132	209	224	218	405	339	142	145	48	64
0	96	157	132	553	217	467	349	333	125	181	48	59
1	98	152	133	847	211	1110	316	279	112	188	47	58
2	100	147	133	553	206	849	310	266	114	230	52	52
3	102	146	133	432	203	560	484	265	113	241	51	56
4	102	143	132	403	196	449	559	257	133	223	59	61
5	105	144	132	376	187	453	474	241	288	186	57	69
6	105	147	137	312	180	438	418	209	292	145	54	70
7	106	156	134	261	180	369	381	184	250	147	51	67
8	103	149	138	234	175	456	370	194	262	208	55	62
9	103	145	137	217	174	535	385	203	244	180	49	52
0	106	144	135	206	168	542	321	202	225	129	52	51
1	111	143	133	195	163	751	313	206	213	137	52	56
2	113	140	132	186	162	734	298	251	194	144	49	58
3	110	137	132	184	148	1020	277	230	167	148	53	62
4	113	139	134	182	147	1170	254	209	148	137	48	61
5	117	148	138	182	147	813	226	213	141	125	55	80
6	111	140	137	196	146	446	224	211	133	111	62	79
7	114	139	139	196	148	405	240	180	135	99	57	78
8	111	138	155	190	150	368	272	157	140	98	60	77
9	110	137	153	184	---	343	328	137	133	97	59	85
0	115	137	147	206	---	327	346	130	146	85	61	87
1	119	---	143	336	---	312	---	115	---	82	66	---
TAL	3210	4322	4221	7966	6650	15069	9924	8093	4863	4544	1698	1886
AN	104	144	136	257	237	486	331	261	162	147	54.8	62.9
X	119	157	155	847	688	1170	559	445	292	241	79	87
N	69	123	132	139	146	155	224	115	112	82	35	47
-FT	6370	8570	8370	15800	13190	29890	19680	16050	9650	9010	3370	3740

11517500 SHASTA RIVER NEAR YREKA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	151	195	276	321	332	308	201	131	97.0	42.7	38.2	74.5
MAX	351	361	1223	1179	1002	946	753	363	296	147	111	182
(WY)	1963	1985	1965	1974	1958	1983	1974	1941	1958	1995	1941	1978
MIN	90.7	117	120	110	133	97.7	31.8	24.5	17.9	10.1	8.35	26.7
(WY)	1989	1937	1937	1937	1934	1977	1992	1992	1955	1960	1939	1981

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1934 - 1995	
ANNUAL TOTAL	33297.6		72446			
ANNUAL MEAN	91.2		198		180	
HIGHEST ANNUAL MEAN					364	1974
LOWEST ANNUAL MEAN					77.9	1934
HIGHEST DAILY MEAN	202	Feb 19	1170	Mar 24	10400	Dec 23 1964
LOWEST DAILY MEAN	9.6	Jul 14	35	Aug 7	1.5	Aug 24 1981
ANNUAL SEVEN-DAY MINIMUM	12	Aug 15	45	Aug 5	5.5	Aug 9 1939
INSTANTANEOUS PEAK FLOW			1240	Mar 11	21500	Dec 22 1964
INSTANTANEOUS PEAK STAGE			6.43	Mar 11	12.92	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	66050		143700		130600	
10 PERCENT EXCEEDS	174		378		337	
50 PERCENT EXCEEDS	95		145		151	
90 PERCENT EXCEEDS	15		59		25	

11519500 SCOTT RIVER NEAR FORT JONES, CA

LOCATION.--Lat 41°38'27", long 123°00'50", in NE 1/4 NE 1/4 sec.29, T.44 N., R.10 W., Siskiyou County, Hydrologic Unit 18010208, on right bank 1.8 mi upstream from Snow Creek and 9.0 mi west of Fort Jones.

DRAINAGE AREA.--653 mi^2.

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only October to December 1941, published in WSP 1315-B.
CHEMICAL DATA: Water years 1959-79.
SEDIMENT DATA: Water years 1955-56.

REVISED RECORDS.--WSP 1445: 1942-43(M), 1946(M), 1948. WSP 1715: 1951-52(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,623.80 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1966, water-stage recorder 400 ft downstream at datum 2.00 ft higher.

REMARKS.--Records good. Diversions for irrigation of about 30,000 acres upstream from station. See schematic diagram of Klamath River and Trinity River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft^3/s, Dec. 22, 1964, gage height, 25.34 ft, from floodmarks, from rating curve extended above 15,000 ft^3/s on basis of slope-area measurement at 21.40 ft, site and datum then in use; minimum daily, 4.1 ft^3/s, Sept. 20, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	unknown	8,610	14.25	Feb. 1	0630	*11,400	*15.73
Jan. 14	1030	4,950	11.86	Mar. 10	0230	5,880	12.24

Minimum daily, 5.7 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	10	13	71	10900	952	1260	1930	2160	990	183	42
2	6.8	9.1	16	70	8180	1080	1220	2340	2160	888	171	44
3	7.1	8.9	24	68	4180	e1220	1170	2010	2090	877	159	38
4	7.1	9.8	32	66	3110	e1250	1180	1890	2000	792	149	39
5	6.9	9.8	34	72	2660	979	1260	1830	1870	708	142	41
6	7.6	9.3	39	76	2320	885	1690	1660	1530	623	139	40
7	8.6	9.1	45	84	2040	817	2310	1530	1290	586	134	40
8	9.3	8.9	37	e600	1800	830	2400	1470	1130	555	127	41
9	10	12	33	e7500	1580	2770	1990	1510	1030	659	125	45
10	10	10	32	e5500	1410	4570	1720	1540	1040	769	125	53
11	11	9.8	32	e3200	1300	4660	1620	1460	1160	620	126	53
12	11	9.7	33	2330	1200	2900	1690	1390	1180	575	104	53
13	11	9.7	33	2680	1140	2500	2280	1330	1160	621	96	53
14	11	11	32	4710	1030	2960	2070	1240	1250	551	92	53
15	11	11	32	3420	944	3870	1840	1260	1760	494	87	53
16	10	11	38	2150	883	2800	1680	1420	1480	461	80	52
17	10	12	66	1570	856	2310	1540	1610	1280	438	76	52
18	11	11	82	1260	999	3270	1430	1680	1320	488	71	e52
19	10	11	89	1060	1010	3540	1330	1730	1210	478	65	e52
20	10	11	88	923	1020	4260	1290	1890	1080	430	62	e52
21	10	11	83	814	1040	3840	1190	2150	999	388	62	e52
22	10	11	81	740	1040	3020	1130	2290	989	361	62	e52
23	10	11	76	717	1040	2590	1100	2260	1020	340	57	e52
24	10	12	74	755	1050	2200	1150	2130	1120	324	53	e52
25	9.9	13	68	760	1070	1920	1230	2080	1250	295	52	e52
26	9.9	12	66	730	1040	1740	1310	2000	1300	273	47	e52
27	10	12	67	709	1010	1590	1540	1960	1270	252	43	e52
28	11	12	70	713	958	1470	1670	1990	1270	232	42	e52
29	11	12	73	965	---	1410	1630	2050	1150	213	42	e52
30	10	12	75	2520	---	1350	1540	2120	1020	202	41	e52
31	10	---	72	6450	---	1290	---	2140	---	194	40	---
TOTAL	296.9	322.1	1635	53283	56810	70843	46460	55890	40568	15677	2854	1468
MEAN	9.58	10.7	52.7	1719	2029	2285	1549	1803	1352	506	92.1	48.9
MAX	11	13	89	7500	10900	4660	2400	2340	2160	990	183	53
MIN	5.7	8.9	13	66	856	817	1100	1240	989	194	40	38
AC-FT	589	639	3240	105700	112700	140500	92150	110900	80470	31100	5660	2910

e Estimated.

11519500 SCOTT RIVER NEAR FORT JONES, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	113	330	791	1020	1131	1021	1014	1139	712	186	65.5	55.7
MAX	941	1628	5003	4417	4793	2825	2217	2426	1801	769	269	228
(WY)	1963	1974	1965	1974	1958	1972	1952	1958	1975	1983	1983	1983
MIN	9.58	10.7	52.7	80.9	99.0	83.3	55.1	121	78.0	12.8	5.82	4.75
(WY)	1995	1995	1995	1977	1977	1977	1977	1977	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1942 - 1995	
ANNUAL TOTAL	54540.0		346107.0			
ANNUAL MEAN	149		948		629	
HIGHEST ANNUAL MEAN					1496	1974
LOWEST ANNUAL MEAN					74.9	1977
HIGHEST DAILY MEAN	829	May 8	10900	Feb 1	39500	Dec 23 1964
LOWEST DAILY MEAN	4.1	Sep 20	5.7	Oct 1	4.1	Sep 20 1994
ANNUAL SEVEN-DAY MINIMUM	4.3	Sep 15	7.1	Oct 1	4.3	Sep 15 1994
INSTANTANEOUS PEAK FLOW			11400	Feb 1	54600	Dec 22 1964
INSTANTANEOUS PEAK STAGE			15.73	Feb 1	25.34	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	108200		686500		455700	
10 PERCENT EXCEEDS	382		2220		1520	
50 PERCENT EXCEEDS	68		620		303	
90 PERCENT EXCEEDS	5.3		11		46	

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA

OCATION.--Lat 41°51'14", long 123°13'52", in SW 1/4 SW 1/4 sec.3, T.46 N., R.12 W., Siskiyou County, Hydrologic Unit 18010206, Klamath National Forest, on left bank 0.4 mi upstream from Bittenbender Creek, 1.4 mi downstream from Grider Creek, 2.2 mi west of Seiad Valley, and 55 mi downstream from Iron Gate Dam.

RAINAGE AREA.--6,940 mi^2, approximately (not including Lost River, Butte Creek, or Lower Klamath Lake basins).

ERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.
CHEMICAL DATA: Water years 1959-66.
WATER TEMPERATURE: Water years 1964-79.
SEDIMENT DATA: Water years 1955-56.

AGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,320 ft above sea level, from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi upstream at different datum.

EMARKS.--No estimated daily discharges. Records good. Low flow regulated considerably by reservoirs and powerplants upstream from station. Large diversions upstream from station for irrigation. See schematic diagram of Klamath River and Trinity River basins.

XTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft^3/s, Dec. 23, 1964, gage height, 33.75 ft, from floodmarks, from rating curve extended above 49,000 ft^3/s on basis of slope-area measurements at gage heights 20.1 and 29.2 ft; minimum daily, 320 ft^3/s, Nov. 25, 1917.

XTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
an. 10	1215	14,000	10.44	Mar. 18	2115	18,300	11.87
eb. 1	1800	*26,900	*14.30	Apr. 13	2045	10,700	9.11

Minimum daily, 1,010 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	1160	1340	1430	25200	3270	5800	6420	5160	2780	1410	1370
2	1030	1170	1380	1410	20400	3500	5680	8690	4920	2650	1560	1540
3	1060	1150	1310	1400	12000	4120	5670	9020	4750	2560	1540	1550
4	1050	1160	1270	1390	8920	4230	5600	8920	4620	2450	1520	1540
5	1050	1210	1250	1400	7350	3920	5770	8920	4440	2310	1490	1540
6	1050	1170	1250	1410	6430	4060	6310	8900	3980	2210	1460	1540
7	1050	1150	1240	1470	5780	3840	7290	8840	3640	2140	1440	1540
8	1050	1140	1230	1830	5270	3580	8190	8590	3370	2090	1420	1540
9	1060	1280	1240	6190	4790	5920	8270	7960	3160	2170	1420	1550
10	1060	1250	1260	12200	4430	8990	8160	7750	3100	2400	1410	1540
11	1070	1180	1270	8220	4180	11100	8070	7670	3210	2240	1400	1540
12	1070	1170	1280	7290	3960	9640	8350	7470	3230	2150	1380	1540
13	1070	1160	1270	8230	3820	8680	10100	7660	3160	2200	1380	1540
14	1080	1140	1270	12600	3590	9380	10200	8620	3300	2110	1370	1550
15	1090	1160	1280	11000	3380	12800	9460	8860	4570	1990	1360	1550
16	1090	1190	1350	7980	3220	12900	9140	8740	4340	1870	1350	1550
17	1090	1250	1550	5940	3170	13400	8790	7930	4460	1800	1340	1550
18	1090	1210	1760	4180	3480	16100	8640	6950	4490	1890	1330	1540
19	1090	1180	1690	3570	3500	15700	8000	6390	4380	1930	1330	1540
20	1090	1180	1590	3210	3480	16300	6370	6090	4060	1820	1320	1540
21	1090	1180	1520	2930	3500	16400	5550	6370	3850	1730	1310	1540
22	1090	1170	1480	2750	3490	14600	5240	6640	3770	1740	1300	1540
23	1090	1160	1460	2660	3490	13400	5110	6000	3760	1660	1290	1550
24	1090	1220	1450	2660	3490	12600	5080	5700	3610	1610	1280	1550
25	1100	1440	1440	2630	3510	11700	5270	5620	3730	1570	1270	1550
26	1110	1300	1420	2670	3440	10700	5320	5390	3780	1530	1280	1570
27	1100	1250	1430	2650	3370	10200	5560	5110	3530	1480	1280	1580
28	1120	1220	1540	2660	3290	9210	5920	5030	3230	1420	1280	1580
29	1120	1200	1510	3060	---	8250	6000	5090	2990	1400	1280	1590
30	1120	1210	1470	5840	---	8140	6020	5170	2810	1370	1270	1600
31	1120	---	1440	14700	---	6780	---	5200	---	1340	1280	---
TOTAL	33450	36010	43240	147560	163930	293410	208930	221710	115400	60610	42350	46340
MEAN	1079	1200	1395	4760	5855	9465	6964	7152	3847	1955	1366	1545
MAX	1120	1440	1760	14700	25200	16400	10200	9020	5160	2780	1560	1600
MIN	1010	1140	1230	1390	3170	3270	5080	5030	2810	1340	1270	1370
AC-FT	66350	71430	85770	292700	325200	582000	414400	439800	228900	120200	84000	91920

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1995, BY WATER YEAR (WY)

MEAN	2159	3107	4587	5536	5989	6393	5907	5062	3202	1673	1437	1683
MAX	4490	7654	20280	21500	17980	19120	13940	10700	7980	3908	2778	3000
(WY)	1963	1985	1965	1965	1958	1972	1974	1956	1953	1913	1913	1925
MIN	1047	1200	1395	1408	1466	1145	1132	1285	819	598	436	604
(WY)	1992	1995	1995	1992	1992	1977	1977	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1913 - 1995	
ANNUAL TOTAL	456610		1412940			
ANNUAL MEAN	1251		3871		3883	
HIGHEST ANNUAL MEAN					7434	1956
LOWEST ANNUAL MEAN					1151	1992
HIGHEST DAILY MEAN	2650	May 10	25200	Feb 1	115000	Dec 23 1964
LOWEST DAILY MEAN	595	Aug 18	1010	Oct 1	320	Nov 25 1917
ANNUAL SEVEN-DAY MINIMUM	599	Aug 16	1040	Oct 1	417	Aug 18 1992
INSTANTANEOUS PEAK FLOW			26900	Feb 1	165000	Dec 23 1964
INSTANTANEOUS PEAK STAGE			14.30	Feb 1	33.75	Dec 23 1964
INSTANTANEOUS LOW FLOW					320	Nov 25 1917
ANNUAL RUNOFF (AC-FT)	905700		2803000		2813000	
10 PERCENT EXCEEDS	1860		8810		7940	
50 PERCENT EXCEEDS	1220		2170		2700	
90 PERCENT EXCEEDS	639		1160		1200	

11521500 INDIAN CREEK NEAR HAPPY CAMP, CA

LOCATION.--Lat 41°50'07", long 123°22'55", in SW 1/4 SW 1/4 sec.26, T.17 N., R.7 E., Siskiyou County, Hydrologic Unit 18010209, on right bank 0.2 mi upstream from Slater Creek, 3.0 mi north of Happy Camp, and 3.5 mi upstream from mouth.
DRAINAGE AREA.--120 mi^2.
PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.
REVISED RECORDS.--WSP 1635: 1957-58.
GAGE.--Water-stage recorder. Datum of gage is 1,198.37 ft above sea level. Prior to December 1956, nonrecording gages at sites 1.0 mi upstream at different datums. December 1956 to Sept. 20, 1969, water-stage recorder at site 0.8 mi upstream at different datum.
REMARKS.--Records good. Small diversions upstream and at station for irrigation. See schematic diagram of Klamath River and Trinity River basins.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft^3/s, Dec. 22, 1964, gage height, 24.3 ft, from floodmarks, present site and datum; 36.59 ft from floodmarks in gage well, from rating curve extended above 6,000 ft^3/s on basis of slope-area measurement at gage height 29.0 ft, previous site and datum; minimum discharge observed, 20 ft^3/s, Aug. 19 to Sept. 6, 1914.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 21, 1955, reached a stage of 29.0 ft, at 1956-69 site and datum, from floodmarks, discharge, 23,000 ft^3/s on basis of slope-area measurement of peak flow.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1045	8,130	12.04	Mar. 14	1245	4,240	9.59
Jan. 31	1515	*8,290	*12.12	Mar. 20	0630	4,570	9.85
Mar. 9	1130	5,520	10.55				

Minimum daily, 31 ft^3/s, several days in October.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	62	e100	220	6040	684	877	1130	597	202	85	57
2	33	61	e110	202	3450	691	831	1220	578	188	83	56
3	31	54	e120	192	2140	710	809	1010	549	180	82	55
4	31	e64	e130	188	1740	641	824	926	503	173	78	55
5	31	e80	e140	198	1580	597	885	870	458	163	76	55
6	32	76	143	216	1390	550	1050	811	410	160	75	54
7	32	64	131	426	1240	517	1780	771	376	157	74	53
8	31	60	118	1290	1120	709	1560	745	351	154	76	53
9	31	e85	111	6190	982	3780	1280	753	338	158	74	53
10	31	e80	107	4340	882	2780	1150	769	341	151	72	52
11	31	75	109	2380	818	2340	1140	749	349	144	73	52
12	32	69	110	2060	761	1760	1390	693	321	149	71	51
13	32	63	105	3110	719	1850	1750	648	305	139	69	49
14	32	60	107	3790	639	3270	1430	637	330	130	67	49
15	34	e83	110	2310	589	2500	1220	688	447	125	66	49
16	36	e102	166	1530	550	1840	1070	749	330	122	66	48
17	35	e90	415	1120	628	1540	977	759	318	118	67	48
18	34	e86	507	925	863	2060	901	718	325	118	66	48
19	34	73	413	826	906	1820	836	701	317	121	65	48
20	34	85	342	735	913	3380	815	757	330	119	62	47
21	34	e110	300	652	910	2270	758	802	293	115	61	46
22	33	e89	271	595	873	1870	730	816	277	122	61	46
23	33	80	245	572	861	1580	730	777	267	111	60	46
24	33	e95	235	549	883	1340	779	735	266	106	60	46
25	33	e100	223	526	845	1170	809	712	258	103	60	46
26	33	e90	216	569	781	1050	808	693	248	103	59	47
27	34	e90	299	555	741	983	813	662	232	99	59	47
28	65	e90	395	730	713	951	844	658	223	95	58	47
29	53	e90	317	1140	---	940	880	669	209	91	58	46
30	45	e90	268	3570	---	922	821	656	201	90	58	46
31	39	---	236	6230	---	910	---	626	---	87	57	---
TOTAL	1086	2396	6599	47936	34557	48005	30547	23910	10347	4093	2098	1495
MEAN	35.0	79.9	213	1546	1234	1549	1018	771	345	132	67.7	49.8
MAX	65	110	507	6230	6040	3780	1780	1220	597	202	85	57
MIN	31	54	100	188	550	517	730	626	201	87	57	46
AC-FT	2150	4750	13090	95080	68540	95220	60590	47430	20520	8120	4160	2970

e Estimated.

11521500 INDIAN CREEK NEAR HAPPY CAMP, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1995, BY WATER YEAR (WY)

MEAN	81.4	318	582	701	803	773	658	548	259	99.7	59.7	51.7
MAX	414	1498	3156	2230	2820	1896	1372	1368	579	204	100	102
(WY)	1963	1974	1965	1970	1958	1972	1966	1969	1975	1983	1983	1978
MIN	29.8	45.6	45.7	50.5	87.1	170	201	152	71.8	36.5	26.3	27.8
(WY)	1992	1960	1977	1977	1977	1977	1977	1992	1992	1977	1977	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1957 - 1995	
ANNUAL TOTAL	63992		213069			
ANNUAL MEAN	175		584		410	
HIGHEST ANNUAL MEAN					817	1974
LOWEST ANNUAL MEAN					83.7	1977
HIGHEST DAILY MEAN	938	Jan 23	6230	Jan 31	30700	Dec 22 1964
LOWEST DAILY MEAN	28	Sep 22	31	Oct 3	21	Sep 12 1977
ANNUAL SEVEN-DAY MINIMUM	28	Sep 21	31	Oct 3	22	Sep 8 1977
INSTANTANEOUS PEAK FLOW			8290	Jan 31	39000	Dec 22 1964
INSTANTANEOUS PEAK STAGE			12.12	Jan 31	24.30	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	126900		422600		296700	
10 PERCENT EXCEEDS	370		1360		939	
50 PERCENT EXCEEDS	110		236		202	
90 PERCENT EXCEEDS	32		47		46	

11522500 SALMON RIVER AT SOMES BAR, CA

LOCATION.--Lat 41°22'40", long 123°28'35", in NE 1/4 sec.3, T.11 N., R.6 E., Siskiyou County, Hydrologic Unit 18010210, Klamath National Forest, on left bank at Somes Bar, 1.0 mi upstream from mouth.

DRAINAGE AREA.--751 mi^2.

PERIOD OF RECORD.--September 1911 to September 1915, October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912, 1914, 1915(M), 1946(M), 1948(M). WDR CA-72-1: 1970-71(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 482.97 ft above sea level. Prior to October 1927, nonrecording gage at different datum, October 1927 to Dec. 22, 1964, water-stage recorder at site 0.5 mi upstream at datum 6.54 ft higher.

REMARKS.--Records poor. No storage or large diversion upstream from station. See schematic diagram of Klamath River and Trinity River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft^3/s, Dec. 22, 1964 (result of failure of upstream debris dam), gage height, 46.6 ft, present site and datum, from floodmarks, from rating curve extended above 33,000 ft^3/s; minimum daily, 70 ft^3/s, Aug. 25, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2030	19,300	12.86	Mar. 9	1630	13,800	10.66
Jan. 13	2115	16,800	11.90	Mar. 14	2115	13,600	10.58
Jan. 31	1630	*32,000	*17.42				

Minimum daily, 103 ft^3/s, Oct. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	203	1150	810	26600	3100	3560	5140	4750	2470	e600	e298
2	113	216	1400	745	18200	3320	3410	5580	4710	2220	e580	e292
3	107	182	942	706	10900	3630	3310	4930	4370	2150	e560	e290
4	103	200	714	681	8630	3320	3360	4630	4160	1930	e540	e288
5	106	348	589	756	7560	3130	3660	4400	3840	1750	e510	e280
6	110	253	553	830	6480	2940	4760	4020	3120	1740	e490	e275
7	113	219	504	1380	6020	2810	7370	3790	2720	1670	e480	e270
8	115	199	453	3350	5460	3030	6870	3710	2510	1650	e460	e265
9	111	425	420	12500	4550	9030	5790	3840	2510	1920	456	e260
10	109	378	405	12200	4150	9050	5200	3890	2680	1680	436	e257
11	109	250	415	8150	3880	8160	5020	3850	3020	1390	436	e252
12	109	219	419	7870	3660	6580	5310	3590	2890	1340	427	e246
13	113	207	401	11300	3540	6290	6200	3390	2740	1270	414	240
14	118	195	393	15200	3260	9180	5560	3230	3310	1170	e410	235
15	124	233	416	10700	3050	11000	5060	3380	4210	1180	e400	231
16	123	296	1000	6840	2890	8030	4610	3690	3000	1210	e390	229
17	125	402	2080	4920	2960	6440	4260	4030	2860	1200	e380	228
18	124	320	2100	3960	3390	8970	3970	4150	3180	e1180	e370	233
19	122	254	1760	3340	3380	8240	3720	4270	2870	e1120	e360	224
20	120	303	1410	2920	3440	12100	3690	4700	2680	e1090	e360	218
21	120	350	1170	2570	3490	10300	3400	5010	2480	e1050	e355	215
22	120	299	1010	2340	3410	8000	3300	5020	2580	e970	e345	213
23	121	268	916	2190	3420	6570	3300	4860	2720	e900	e340	210
24	121	631	924	2070	3500	5540	3490	4590	3000	e860	e335	210
25	120	1550	856	1980	3450	4940	3620	4480	3170	e830	e330	217
26	119	797	782	2060	3320	4520	3660	4470	3190	e780	e325	220
27	126	559	889	2030	3200	4220	3900	4380	3060	e750	e320	241
28	218	499	1150	2610	3120	4000	3860	4470	3230	e720	e310	243
29	175	436	1040	3660	---	3850	4090	4660	2740	e700	e310	248
30	156	481	941	10100	---	3720	3910	4720	2460	e670	e302	238
31	144	---	853	23000	---	3630	---	4680	---	e620	e300	---
TOTAL	3833	11172	28055	163768	158910	187640	131220	133550	94760	40180	12631	7366
MEAN	124	372	905	5283	5675	6053	4374	4308	3159	1296	407	246
MAX	218	1550	2100	23000	26600	12100	7370	5580	4750	2470	600	298
MIN	103	182	393	681	2890	2810	3300	3230	2460	620	300	210
AC-FT	7600	22160	55650	324800	315200	372200	260300	264900	188000	79700	25050	14610

e Estimated.

11522500 SALMON RIVER AT SOMES BAR, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	351	1109	2117	2832	2917	2905	2991	3115	1908	614	260	201
MAX	2297	5961	10480	11260	11190	9615	5741	6174	4354	1906	839	528
(WY)	1963	1974	1965	1970	1958	1972	1938	1938	1953	1953	1983	1983
MIN	117	130	175	190	255	448	710	786	402	146	81.6	83.1
(WY)	1988	1937	1937	1937	1977	1977	1977	1977	1992	1931	1931	1931

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1912 - 1995	
ANNUAL TOTAL	248424		973085			
ANNUAL MEAN	681		2666		1771	
HIGHEST ANNUAL MEAN					3754	1974
LOWEST ANNUAL MEAN					339	1977
HIGHEST DAILY MEAN	2950	Jan 23	26600	Feb 1	100000	Dec 22 1964
LOWEST DAILY MEAN	92	Sep 23	103	Oct 4	70	Aug 25 1931
ANNUAL SEVEN-DAY MINIMUM	94	Sep 21	109	Oct 3	73	Aug 24 1931
INSTANTANEOUS PEAK FLOW			32000	Jan 31	133000	Dec 22 1964
INSTANTANEOUS PEAK STAGE			17.42	Jan 31	46.60	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	492700		1930000		1283000	
10 PERCENT EXCEEDS	1400		5660		4160	
50 PERCENT EXCEEDS	590		1750		1020	
90 PERCENT EXCEEDS	110		209		178	

11523000 KLAMATH RIVER AT ORLEANS, CA

LOCATION.--Lat 41°18'13", long 123°32'00", in SW 1/4 NE 1/4 sec.31, T.11 N., R.6 E., Humboldt County, Hydrologic Unit 18010209, Six Rivers National Forest, on right bank at Orleans, 25 ft upstream from highway bridge, and 0.2 mi downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 mi^2, not including Lost River or Lower Klamath Lake basins.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1965, published as "at Somesbar."
SEDIMENT DATA: Water years 1967-79.

REVISED RECORDS.--WSP 1565: 1935(M), 1949.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 353.98 ft above sea level. Prior to Oct. 1, 1965, at site 6.7 mi upstream at different datum. Oct. 1, 1965, to July 14, 1992, water-stage recorder at datum 2.00 ft higher, at present site.

REMARKS.--Records fair. Flow considerably regulated by reservoirs and powerplants upstream from station. Large diversions upstream from station for irrigation. See schematic diagram of Klamath River and Trinity River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft^3/s, Dec. 22, 1964, gage height, 76.5 ft, from floodmarks, site and datum then in use, from rating curve extended above 80,000 ft^3/s on basis of slope-conveyance study, gage height, 59.4 ft; minimum daily, 320 ft^3/s, Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 31	1845	*112,000	*25.85	Mar. 20	1245	54,600	18.97
Mar. 9	1845	45,900	17.54				

Minimum daily, 1,370 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1370	1520	e3000	4010	102000	10300	15900	18000	13400	6750	2480	2070
2	e1380	1620	e3360	3770	71700	10600	15000	21200	13200	6280	2520	2150
3	e1380	1540	e3780	3620	41800	12000	14600	20500	12400	5990	2540	2190
4	e1390	1630	e3520	3490	32100	11600	14600	19500	11900	5640	2510	2190
5	1420	e2900	e3250	3660	27400	10900	15100	19000	11200	5270	2500	2190
6	1470	e2390	e3060	4010	23700	10400	18000	18100	9920	5040	2470	2190
7	1460	e2130	2950	5460	21000	10100	25700	17500	8900	4860	2460	2180
8	1460	e2110	2790	e15000	19100	10500	26100	17100	8310	4740	2440	2180
9	1460	e2850	2680	e75000	17000	31200	23800	16700	7980	4860	2400	2180
10	1450	e2700	2650	e60000	15200	35300	21900	16500	7950	4850	2350	2170
11	1450	e2400	2680	e37700	14100	33600	21100	16200	8400	4620	2350	2150
12	1450	e2190	2760	e34800	13100	29200	22200	15500	8270	4440	2350	2140
13	1450	e2110	2700	e41800	12600	27600	27100	14900	7980	4330	2340	2140
14	1440	e2130	2680	e59100	11600	36400	25700	15400	8560	4220	2320	2140
15	1440	e2200	2800	45200	10700	40600	23300	16200	11200	4060	2310	2140
16	1440	e2500	4260	31800	10100	33800	21400	16800	9870	3950	2270	2140
17	1440	e2800	8290	23600	10100	29800	20000	16600	9230	3790	2260	2140
18	1430	e2500	8690	18300	12800	35900	19000	15800	9760	3730	2260	2140
19	1430	e2390	7810	15200	12800	36500	17900	15000	9530	3750	2260	2140
20	1430	e2310	6250	13200	12600	47400	16500	15100	9200	3700	2230	2130
21	1420	e2510	5360	11700	12500	43100	14500	15800	8510	3500	2220	2100
22	1420	e2350	4810	10700	12100	36000	13600	16400	8360	3430	2200	2090
23	1420	e2410	4440	9980	11900	31500	13400	15600	8380	3310	2180	2090
24	1420	e2600	4310	9420	12000	28400	13600	14600	8580	3180	2140	2090
25	1420	e3800	4130	9020	11800	25900	13900	14100	8710	3090	2140	2100
26	1420	e3340	3910	9340	11300	23900	14000	13900	8780	3020	2140	2110
27	1430	e2900	4440	9550	10900	22300	14400	13300	8530	2900	2140	2130
28	1540	e2730	5730	11400	10500	20800	15100	13100	8340	2790	2140	2150
29	1530	e2600	5150	15300	---	19700	15800	13400	7550	2710	2130	2160
30	1480	e2500	4590	38200	---	18700	15400	13600	6910	2650	2130	2160
31	1470	---	4200	79700	---	17900	---	13500	---	2560	2120	---
TOTAL	44610	72660	131030	713030	584500	791900	548600	498900	279810	128010	71300	64270
MEAN	1439	2422	4227	23000	20870	25550	18290	16090	9327	4129	2300	2142
MAX	1540	3800	8690	79700	102000	47400	27100	21200	13400	6750	2540	2190
MIN	1370	1520	2650	3490	10100	10100	13400	13100	6910	2560	2120	2070
AC-FT	88480	144100	259900	1414000	1159000	1571000	1088000	989600	555000	253900	141400	127500

e Estimated.

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3054	6060	10440	13020	13610	13640	12580	10870	6411	2788	2060	2223
MAX	9876	22080	48770	48870	53740	42600	26860	25320	16900	7226	3666	3807
(WY)	1963	1974	1965	1970	1986	1972	1974	1938	1953	1953	1953	1953
MIN	1354	1930	2288	2334	2630	2806	3065	3081	1626	755	549	790
(WY)	1993	1988	1937	1937	1977	1977	1977	1992	1992	1931	1931	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1928 - 1995	
ANNUAL TOTAL	1128100		3928620			
ANNUAL MEAN	3091		10760		8035	
HIGHEST ANNUAL MEAN					17030	1974
LOWEST ANNUAL MEAN					2520	1977
HIGHEST DAILY MEAN	10700	Jan 24	102000	Feb 1	240000	Dec 23 1964
LOWEST DAILY MEAN	1020	Aug 9	1370	Oct 1	320	Aug 25 1931
ANNUAL SEVEN-DAY MINIMUM	1040	Aug 15	1410	Oct 1	453	Aug 1 1931
INSTANTANEOUS PEAK FLOW			112000	Jan 31	307000	Dec 22 1964
INSTANTANEOUS PEAK STAGE			25.85	Jan 31	76.50	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	2238000		7792000		5821000	
10 PERCENT EXCEEDS	5540		24600		17500	
50 PERCENT EXCEEDS	2700		5640		4830	
90 PERCENT EXCEEDS	1190		2080		1870	

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA

LOCATION.--Lat 41°06'41", long 122°42'16", in SW 1/4 NW 1/4 sec.32, T.38 N., R.7 W., Trinity County, Hydrologic Unit 18010211, Shasta National Forest, on left bank 24 ft upstream from State Highway No. 3 Bridge, 1.8 mi upstream from Coffee Creek, and 8.6 mi north of Trinity Center.
DRAINAGE AREA.--149 mi^2.
PERIOD OF RECORD.--September 1957 to current year.
REVISED RECORDS.--WDR CA-85-2: 1982(M).
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,536.93 ft above sea level. Prior to Oct. 1, 1978, water-stage recorder at site 0.2 mi downstream at datum 3.57 ft lower.
REMARKS.--Records good. No regulation or diversion upstream from station. See schematic diagram of Klamath River and Trinity River basins.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft^3/s, Jan. 16, 1974, gage height, 12.96 ft, site and datum then in use, from rating curve extended above 4,500 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 13.78 ft, Nov. 16, 1981, present site and datum; minimum daily, 16 ft^3/s, Sept. 11-14, 1977.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 10.5 ft, previous site and datum, from floodmarks, discharge, 11,400 ft^3/s.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1645	*7,880	*11.57	Apr. 7	1615	3,060	8.26
Jan. 14	0300	4,000	9.25	Apr. 12	2345	2,510	7.83
Jan. 31	2400	5,800	10.41	May 1	0900	3,540	8.62
Mar. 10	1600	7,690	11.35	May 22	2130	2,630	7.92
Mar. 14	1215	6,580	10.71				

Minimum daily, 23 ft^3/s, Oct. 4, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	31	70	58	5150	861	702	2970	1870	569	115	57
2	25	38	85	58	2950	949	716	2350	1800	550	111	55
3	24	38	76	57	1820	1140	753	1810	1760	531	108	55
4	23	39	71	66	1630	911	868	1720	1610	475	104	55
5	23	42	62	69	1490	777	1030	1520	1330	428	102	55
6	24	44	55	76	1340	684	1600	1260	973	410	98	52
7	25	49	e50	168	1190	615	2740	1170	826	385	98	52
8	25	49	e41	895	1100	767	1980	1240	729	376	94	52
9	25	77	e40	5430	962	4840	1320	1310	738	536	92	52
10	25	76	e41	3870	878	4740	1060	1120	836	401	88	52
11	25	55	e40	1670	829	3560	1010	1070	930	328	88	51
12	25	53	42	1310	778	2140	1450	1030	944	311	86	50
13	25	50	42	1720	714	1800	1980	914	908	298	84	47
14	25	46	43	3050	633	4830	1390	923	1270	269	82	47
15	25	49	44	1400	563	3260	1120	1100	1400	251	80	46
16	25	50	50	874	512	1950	949	1350	962	241	80	46
17	25	51	51	665	473	1500	848	1640	967	227	76	47
18	25	52	91	533	465	2620	774	1740	962	245	76	47
19	25	81	80	446	516	2040	712	1880	780	219	73	46
20	25	83	69	391	666	1840	692	2090	751	199	71	44
21	25	44	64	357	794	1400	638	2160	730	184	69	43
22	25	44	60	372	853	1150	635	2260	782	176	67	43
23	25	44	59	413	932	953	703	2210	830	166	67	43
24	25	47	61	539	1000	819	881	1980	929	159	66	43
25	25	60	63	612	947	743	1090	1870	946	154	64	43
26	26	60	57	570	909	689	1190	1820	917	148	62	43
27	28	59	56	494	891	659	1530	1830	840	139	60	44
28	29	56	64	500	870	648	1280	1850	785	132	60	44
29	29	55	62	778	---	649	1340	1890	701	127	60	45
30	29	50	56	1820	---	656	1220	1920	627	124	58	46
31	29	---	57	3560	---	672	---	1900	---	118	58	---
TOTAL	791	1572	1802	32821	31855	50862	34201	51897	30433	8876	2497	1445
MEAN	25.5	52.4	58.1	1059	1138	1641	1140	1674	1014	286	80.5	48.2
MAX	29	83	91	5430	5150	4840	2740	2970	1870	569	115	57
MIN	23	31	40	57	465	615	635	914	627	118	58	43
AC-FT	1570	3120	3570	65100	63180	100900	67840	102900	60360	17610	4950	2870

e Estimated.

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	80.6	215	314	426	559	665	833	1052	477	124	54.1	44.5
MAX	447	1664	1726	1899	2248	1641	1500	2414	1989	778	205	134
(WY)	1963	1974	1965	1974	1958	1995	1966	1983	1983	1983	1983	1978
MIN	24.3	37.4	34.1	35.9	47.2	60.0	137	204	95.7	29.0	20.9	23.3
(WY)	1992	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1958 - 1995	
ANNUAL TOTAL	64504		249052			
ANNUAL MEAN	177		682		403	
HIGHEST ANNUAL MEAN					851	1974
LOWEST ANNUAL MEAN					66.2	1977
HIGHEST DAILY MEAN	1080	Jan 23	5430	Jan 9	18900	Jan 16 1974
LOWEST DAILY MEAN	21	Sep 21	23	Oct 4	16	Sep 11 1977
ANNUAL SEVEN-DAY MINIMUM	21	Sep 21	24	Oct 2	16	Sep 8 1977
INSTANTANEOUS PEAK FLOW			7880	Jan 9	26500	Jan 16 1974
INSTANTANEOUS PEAK STAGE			11.57	Jan 9	13.78	Nov 16 1981
ANNUAL RUNOFF (AC-FT)	127900		494000		291700	
10 PERCENT EXCEEDS	458		1820		1030	
50 PERCENT EXCEEDS	76		372		168	
90 PERCENT EXCEEDS	24		40		37	

11525400 CLAIR ENGLE LAKE NEAR LEWISTON, CA

LOCATION.--Lat 40°48'05", long 122°45'44", in NW 1/4 SW 1/4 sec.15, T.34 N., R.8 W., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, Whiskeytown-Shasta-Trinity National Recreation Area, on side of intake structure of Trinity Dam on Trinity River, 9 mi north of Lewiston.
DRAINAGE AREA.--692 mi^2.

PERIOD OF RECORD.--November 1960 to current year. Prior to October 1963 published as Trinity Lake near Lewiston.
GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum. Contents based on capacity table provided by U.S. Bureau of Reclamation, dated April 1962.

REMARKS.--The lake is formed by an earthfill dam completed in November 1960. Storage began Nov. 23, 1960. Usable capacity, 2,437,700 acre-ft between elevations 1,995.5 ft, elevation of invert of river outlets, and 2,370.0 ft, crest of glory hole spillway. Dead storage, 10,000 acre-ft. Operating pool is from elevation 2,145.0 ft, capacity, 312,621 acre-ft, to 2,370.0 ft, capacity, 2,447,700 acre-ft. Figures given represent total contents at 2400 hours. Lake is used for power generation, flood control, and recreation. See schematic diagram of Klamath River and Trinity River basins.
COOPERATION.--Records were provided by U.S. Bureau of Reclamation, not rounded to U.S. Geological Survey standards.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 2,588,000 acre-ft, Jan. 19, 1974, elevation, 2,378.32 ft; minimum since first filling, 222,400 acre-ft, Nov. 9, 1977, elevation, 2,120.22 ft.
EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 2,388,760 acre-ft, June 29, elevation, 2,366.40 ft; minimum, 1,157,192 acre-ft, Jan. 4, elevation, 2,271.89 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by U.S. Bureau of Reclamation, dated April 1962)

2,100	162,231	2,250	955,140
2,140	292,859	2,310	1,583,586
2,190	529,611	2,380	2,616,989

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1211705	1177786	1168200	1158476	1614174	1827109	2118581	2275244	2352247	2386980	2247969	2045273
2	1209144	1177087	1168001	1158277	1643613	1834889	2118131	2284582	2357211	2385035	2242099	2038821
3	1207003	1176489	1167902	1158080	1661161	1843376	2117682	2289727	2362014	2383579	2236086	2031784
4	1205577	1176987	1167803	1157192	1675477	1849415	2118431	2293322	2365216	2380992	2229928	2024765
5	1204864	1176689	1167604	1157685	1688181	1855053	2123386	2294731	2366338	2378095	2223465	2018195
6	1203236	1176489	1166713	1159171	1698989	1859455	2132696	2295044	2364735	2374874	2216253	2011787
7	1201914	1176089	1166315	1163735	1708015	1863742	2150639	2294574	2363777	2371493	2208892	2005680
8	1200691	1175889	1164430	1179894	1716936	1872589	2164558	2294574	2362495	2368112	2201247	1998999
9	1199369	1176689	1163835	1234580	1724166	1911687	2174273	2295200	2361854	2366177	2193910	1993638
10	1198554	1176289	1163437	1271967	1731031	1948222	2182178	2293948	2361534	2362175	2186292	1986976
11	1197945	1175690	1163636	1292091	1736973	1976883	2189491	2291918	2362014	2357531	2179589	1980631
12	1196834	1175290	1161354	1313467	1742277	1994943	2198496	2290666	2362014	2353208	2173517	1974430
13	1196227	1174890	1161155	1340580	1747582	2014258	2209351	2288322	2362335	2348733	2167594	1968969
14	1192888	1174590	1161254	1372648	1751965	2054545	2215946	2285824	2366983	2344755	2162137	1963230
15	1191170	1174590	1161453	1388774	1756093	2083237	2220550	2284115	2373262	2340935	2155326	1957638
16	1189955	1174193	1162245	1397690	1759424	2095279	2224386	2279290	2374068	2336956	2148068	1951647
17	1186730	1173993	1162841	1403534	1763021	2103027	2227462	2275712	2375358	2332827	2142341	1945795
18	1186126	1173593	1161552	1409295	1766629	2117982	2229774	2275089	2376003	2327609	2136309	1940106
19	1185522	1172393	1161751	1413099	1770244	2128941	2231928	2280692	2375680	2322386	2129993	1934711
20	1184617	1171896	1161354	1416216	1774528	2143695	2233161	2290353	2375197	2317487	2124886	1929177
21	1184016	1170497	1161453	1419579	1779755	2151241	2235470	2295044	2374713	2313083	2119481	1923531
22	1183211	1170097	1160460	1425143	1785404	2156083	2237011	2301139	2375358	2307580	2113494	1917316
23	1182809	1169597	1159864	1433411	1791319	2158503	2238703	2308679	2376321	2302078	2107362	1911828
24	1182306	1170097	1160162	1446984	1797531	2157446	2241635	2312610	2379062	2296765	2100197	1906211
25	1181906	1170397	1160162	1460296	1803878	2153058	2247041	2317487	2381799	2290509	2093344	1899753
26	1181503	1170297	1160162	1470722	1809842	2148068	2252605	2321119	2384710	2284738	2086502	1893467
27	1180699	1170497	1160361	1478811	1815542	2142643	2255849	2325391	2387143	2278979	2079676	1887599
28	1180095	1170097	1160361	1487763	1821251	2135709	2257711	2331405	2388436	2273379	2071673	1881482
29	1179592	1169597	1160361	1498554	---	2130144	2260036	2336004	2388760	2267013	2064579	1876060
30	1178991	1168400	1160361	1524418	---	2125036	2262205	2341254	2388116	2260191	2057783	1872589
31	1177986	---	1158476	1565357	---	2120981	---	2347144	---	2253997	2051749	---
MAX	1211705	1177786	1168200	1565357	1821251	2158503	2262205	2347144	2388760	2386980	2247969	2045273
MIN	1177986	1168400	1158476	1157192	1614174	1827109	2117682	2275089	2352247	2253997	2051749	1872589
a	2273.98	2273.02	2272.02	2308.53	2328.22	2349.14	2358.40	2363.81	2366.36	2357.87	2344.48	2331.96
b	-36896	-9586	-9924	+406881	+255894	+299730	+141224	+84939	+40972	-134119	-202248	-179160
c	2255	916	290	359	1127	1816	3231	5264	6590	7215	7617	5280

CAL YR 1994 b -734012
WTR YR 1995 b +657707

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.
c Evaporation, in acre-feet, provided by U.S. Bureau of Reclamation; not reviewed by U.S. Geological Survey.

11525430 JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH, CA

LOCATION.--Lat 40°38'49", long 122°37'34", Shasta County, Hydrologic Unit 18010212, at powerplant 1.6 mi downstream from Mill Creek and 3.8 mi south of French Gulch.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Recorded powerplant output.

REMARKS.--No estimated daily discharges. Water is diverted from Trinity River at NW 1/4 SE 1/4 sec.8, T.33 N., R.8 W., through a tunnel to powerplant and then into Whiskeytown Lake (station 11371700). See schematic diagram of Klamath River and Trinity River basins.

COOPERATION.--Records were provided by U.S. Bureau of Reclamation, not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,000 ft^3/s, Oct. 18, 1987; no flow for many days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1195	.00	.00	.00	.00	.00	528	.00	3428	2963	3105	2672
2	717	.00	.00	.00	2	.00	1598	.00	3433	3131	3098	2755
3	364	.00	.00	.00	.00	.00	1649	.00	3450	3135	3050	2747
4	.00	.00	.00	761	.00	.00	1630	.00	3427	3105	3095	2753
5	.00	.00	.00	.00	.00	.00	1006	66	3439	3139	3111	2746
6	244	.00	421	.00	.00	.00	1039	15	3440	3057	3128	2729
7	270	.00	.00	.00	.00	.00	.00	16	3451	3102	3121	2721
8	411	.00	768	.00	.00	.00	.00	2.0	3177	3115	3111	2765
9	409	.00	20	.00	25	.00	.00	143	3155	3149	3241	2311
10	.00	.00	.00	.00	.00	.00	.00	34	3170	3114	3146	2751
11	.00	.00	.00	.00	.00	.00	38	38	3170	3075	3043	2763
12	.00	.00	1060	.00	.00	.00	.00	31	3170	3122	2810	2770
13	.00	.00	.00	.00	.00	.00	21	.00	3177	3095	2770	2241
14	1059	.00	.00	.00	.00	.00	192	.00	3178	3102	2663	2258
15	770	.00	.00	.00	.00	.00	.00	13	2460	3166	2618	2264
16	408	.00	.00	.00	.00	.00	.00	2332	3011	3112	2626	2255
17	1189	.00	.00	4	.00	.00	.00	2356	3117	3087	2674	2254
18	.00	.00	1198	.00	.00	.00	.00	2123	3157	3084	2797	2254
19	.00	450	2	7	.00	.00	466	1081	3100	3086	2770	2229
20	.00	6	.00	2	.00	.00	740	234	3241	3167	2458	2256
21	.00	457	.00	.00	.00	1	1192	3309	3108	2443	2718	2219
22	11	.00	.00	.00	.00	.00	1097	3118	3102	3054	2773	2216
23	6	.00	727	.00	.00	3	1682	2898	3148	3184	2581	2244
24	.00	.00	.00	.00	.00	.00	1524	3309	3130	3164	2739	2269
25	10	.00	.00	13	.00	.00	713	3469	3138	3162	2764	2104
26	3	.00	.00	.00	.00	.00	581	3369	3057	3099	2743	2196
27	.00	.00	.00	.00	.00	.00	2	3392	2853	3195	2792	2269
28	.00	.00	.00	.00	46	.00	.00	3106	3105	3116	2737	2152
29	.00	2	.00	.00	---	.00	.00	3430	3103	3096	2754	2135
30	.00	564	.00	.00	---	23	.00	3432	3104	3104	2870	1383
31	.00	---	1012	.00	---	.00	---	3430	---	3120	2775	---
TOTAL	7066.00	1479.00	5208.00	787.00	73.00	27.00	15698.00	44746.00	95199	95843	88681	71681
MEAN	228	49.3	168	25.4	2.61	.87	523	1443	3173	3092	2861	2389
MAX	1190	564	1200	761	46	23	1680	3470	3450	3190	3240	2770
MIN	.00	.00	.00	.00	.00	.00	.00	.00	2460	2440	2460	1380
AC-FT	14020	2930	10330	1560	145	54	31140	88750	188800	190100	175900	142200

11525430 JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1378	881	718	614	794	859	1138	1329	1829	2315	2229	2134
MAX	3363	2158	2891	2755	3222	3111	3220	3512	3662	3589	3236	3504
(WY)	1988	1967	1979	1982	1974	1974	1970	1974	1969	1968	1977	1988
MIN	166	18.0	.16	.000	.34	.000	.000	.097	.63	253	507	457
(WY)	1994	1992	1993	1986	1988	1988	1978	1991	1993	1978	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1963 - 1995	
ANNUAL TOTAL	423557.00		426488.00			
ANNUAL MEAN	1160		1168		1367	
HIGHEST ANNUAL MEAN					2485	1974
LOWEST ANNUAL MEAN					301	1978
HIGHEST DAILY MEAN	3550	May 25	3470	May 25	4000	Oct 18 1987
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 4	.00	May 6 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 27	.00	Oct 14 1969
ANNUAL RUNOFF (AC-FT)	840100		845900		990500	
10 PERCENT EXCEEDS	3390		3140		3150	
50 PERCENT EXCEEDS	408		23		1110	
90 PERCENT EXCEEDS	.00		.00		.00	

11525500 TRINITY RIVER AT LEWISTON, CA

LOCATION.--Lat 40°43'10", long 122°48'09", in SW 1/4 NW 1/4 sec.17, T.33 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on right bank 400 ft upstream from Deadwood Creek, 0.8 mi downstream from Lewiston Diversion Dam, and 0.8 mi northeast of Lewiston.

DRAINAGE AREA.--719 mi^2.

PERIOD OF RECORD.--August 1911 to current year.
CHEMICAL DATA: Water years 1951-81.
WATER TEMPERATURE: Water years 1952-55, 1958-83.
SEDIMENT DATA: Water years 1955-61.

REVISED RECORDS.--WSP 331: 1911-12. WSP 1181: 1949. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,815.95 ft above sea level. See WSP 1929 for history of changes prior to July 7, 1964.

REMARKS.--No estimated daily discharges. Records excellent. Flow completely regulated by Clair Engle Lake (station 11525400) beginning in November 1960 and Lewiston Lake, capacity, 14,660 acre-ft, when diversion to Judge Francis Carr Powerplant (station 11525430) began in April 1963. Small diversions above head of Clair Engle Lake for irrigation, power, placer mining, and domestic use between Trinity Dam and station at Lewiston. See schematic diagram of Klamath River and Trinity River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft^3/s, Dec. 22, 1955, gage height, 27.3 ft, from floodmarks, site and datum then in use; minimum, 23 ft^3/s, July 30, 1924. Since completion of Trinity Dam in 1960, maximum discharge, 14,400 ft^3/s, Jan. 18, 1974, gage height, 10.41 ft; minimum daily, 100 ft^3/s, Apr. 14, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1861 reached a stage of 21.6 ft, from floodmarks, at site 1.1 mi downstream at different datum, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,060 ft^3/s, Mar. 24, gage height, 7.78 ft; minimum daily, 280 ft^3/s, Oct. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	442	338	317	299	498	302	3990	4470	1170	465	519	522
2	441	333	316	297	390	306	2220	4460	1180	461	517	524
3	442	326	319	310	305	304	1750	4450	899	453	517	524
4	440	323	319	311	304	303	1360	4640	917	468	515	523
5	441	323	320	311	305	302	926	4920	953	496	513	524
6	443	323	319	311	303	302	564	4910	858	496	513	525
7	368	323	318	323	300	304	536	5150	615	501	513	523
8	297	321	316	327	301	304	535	5160	608	503	517	522
9	292	324	313	517	304	310	535	5140	607	500	518	518
10	289	322	313	409	306	306	534	5130	605	496	515	519
11	289	323	315	314	307	303	571	5150	609	495	513	520
12	290	325	316	314	306	300	660	5130	608	496	512	520
13	280	325	313	318	306	302	1460	5130	622	514	508	518
14	283	323	311	315	306	307	2210	5110	644	518	507	518
15	301	325	313	311	306	1090	2210	5090	644	518	509	520
16	301	325	316	306	307	2880	2220	5110	644	518	511	522
17	303	325	311	308	308	3720	2230	5120	411	511	512	520
18	302	327	312	309	309	4090	2200	4430	311	514	491	520
19	300	324	307	306	306	4210	1690	3340	306	516	472	520
20	299	324	307	308	306	4440	1300	2250	306	522	472	519
21	301	326	313	309	305	4780	878	1600	306	525	497	517
22	301	323	313	312	305	4760	553	1110	305	523	523	518
23	301	323	311	313	306	4770	531	1110	303	526	517	518
24	300	326	309	315	303	5630	528	1170	303	520	522	513
25	300	330	309	914	306	6890	528	1160	303	520	526	513
26	300	321	309	400	306	6800	884	1160	302	522	526	520
27	299	318	310	307	303	6760	3950	1170	303	521	616	517
28	299	317	309	308	302	6830	4490	1170	300	519	1390	519
29	296	318	309	308	---	6730	4490	1170	299	517	719	519
30	294	315	309	312	---	6460	4470	1170	299	517	525	471
31	321	---	303	361	---	5400	---	1180	---	522	527	---
TOTAL	10155	9719	9695	10683	8819	90495	51003	107460	16540	15693	17052	15546
MEAN	328	324	313	345	315	2919	1700	3466	551	506	550	518
MAX	443	338	320	914	498	6890	4490	5160	1180	526	1390	525
MIN	280	315	303	297	300	300	528	1110	299	453	472	471
AC-FT	20140	19280	19230	21190	17490	179500	101200	213100	32810	31130	33820	30840

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1960, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	302	742	1257	1572	2544	2653	3675	3932	2131	611	201	158
MAX	2174	3055	5319	5734	11670	6116	6986	9062	6311	2579	628	423
(WY)	1951	1921	1956	1956	1958	1941	1915	1958	1915	1941	1941	1912
MIN	92.3	121	147	169	331	519	725	442	115	42.7	41.0	41.1
(WY)	1918	1930	1937	1937	1933	1924	1924	1924	1924	1924	1924	1924

SUMMARY STATISTICS	WATER YEARS 1912 - 1960	
ANNUAL MEAN	1641	
HIGHEST ANNUAL MEAN	3721	1958
LOWEST ANNUAL MEAN	367	1924
HIGHEST DAILY MEAN	38700	Dec 22 1955
LOWEST DAILY MEAN	28	Jul 30 1924
ANNUAL SEVEN-DAY MINIMUM	31	Jul 26 1924
INSTANTANEOUS PEAK FLOW	71600	Dec 22 1955
INSTANTANEOUS PEAK STAGE	27.3	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	1189000	
10 PERCENT EXCEEDS	4310	
50 PERCENT EXCEEDS	732	
90 PERCENT EXCEEDS	132	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	273	295	355	479	408	637	699	734	608	345	301	292
MAX	424	849	2285	4038	1782	5489	5029	3937	4668	1096	577	531
(WY)	1993	1984	1984	1974	1983	1983	1963	1963	1983	1983	1982	1992
MIN	203	220	144	145	145	149	130	149	146	142	139	150
(WY)	1966	1971	1977	1977	1977	1977	1976	1976	1976	1976	1976	1966

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	180251		362860			
ANNUAL MEAN	494		994		452	
HIGHEST ANNUAL MEAN					1784	1983
LOWEST ANNUAL MEAN					165	1977
HIGHEST DAILY MEAN	1610	Apr 10	6890	Mar 25	13800	Jan 19 1974
LOWEST DAILY MEAN	280	Oct 13	280	Oct 13	100	Apr 14 1976
ANNUAL SEVEN-DAY MINIMUM	289	Oct 8	289	Oct 8	103	Apr 12 1976
INSTANTANEOUS PEAK FLOW			7060	Mar 24	14400	Jan 18 1974
INSTANTANEOUS PEAK STAGE			7.78	Mar 24	10.41	Jan 18 1974
ANNUAL RUNOFF (AC-FT)	357500		719700		327600	
10 PERCENT EXCEEDS	1560		3970		565	
50 PERCENT EXCEEDS	327		472		295	
90 PERCENT EXCEEDS	300		303		155	

11525580 LITTLE GRASS VALLEY CREEK NEAR LEWISTON, CA

WATER-QUALITY RECORDS

LOCATION.--Lat 40°39'45", long 122°47'57", in NE 1/4 NW 1/4 sec.5, T.32 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on left bank 0.2 mi upstream from the confluence with Grass Valley Creek, 0.9 mi west of Buckhorn Station, and 3.1 mi south of Lewiston on State Highway 299.

DRAINAGE AREA.--10.7 mi^2.

PERIOD OF RECORD.--
SEDIMENT DATA: Water years 1985 to current year.

REMARKS.--Zero bedload observed at flows less than 6.9 ft^3/s. Record is collected for hydrologic and sediment-transport correlation studies with Grass Valley Creek at Fawn Lodge, near Lewiston (station 11525600).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
NOV									
07...	1045	1.6	5.0	2	0.01	--	--	--	--
DEC									
07...	1055	1.9	2.5	3	0.02	--	--	--	--
JAN									
03...	0845	2.8	3.5	3	0.02	--	--	--	--
08...	1120	47	4.5	760	96	--	--	--	--
09...	1625	454	6.5	12000	14700	15	21	24	34
11...	1230	51	5.0	1380	190	--	--	--	--
17...	1300	30	5.0	532	43	--	--	--	--
25...	1235	153	6.0	4220	1740	--	--	--	--
FEB									
07...	1215	34	7.0	944	87	--	--	--	--
28...	1245	15	8.5	238	9.6	--	--	--	--
MAR									
09...	1220	167	8.0	4310	1940	--	--	--	--
APR									
13...	1100	20	7.5	205	11	--	--	--	--
MAY									
01...	1235	21	10.5	93	5.3	--	--	--	--
JUN									
08...	1110	8.7	9.0	9	0.21	--	--	--	--
JUL									
06...	1430	6.9	14.5	4	0.08	--	--	--	--
AUG									
10...	1010	4.4	12.5	5	0.06	--	--	--	--
SEP									
07...	1045	3.4	11.5	7	0.06	--	--	--	--

11525580 LITTLE GRASS VALLEY CREEK NEAR LEWISTON, CA

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 4.00 MM
NOV								
07...	--	--	--	--	--	--	--	--
DEC								
07...	--	--	--	--	--	--	--	--
JAN								
03...	--	--	--	--	--	--	--	--
08...	--	85	91	97	99	100	--	--
09...	47	57	76	91	98	100	--	--
11...	--	37	50	65	81	92	98	100
17...	--	32	46	61	79	91	96	100
25...	--	36	57	79	94	99	100	--
FEB								
07...	--	20	--	--	--	--	--	--
28...	--	23	--	--	--	--	--	--
MAR								
09...	--	40	--	--	--	--	--	--
APR								
13...	--	12	--	--	--	--	--	--
MAY								
01...	--	26	--	--	--	--	--	--
JUN								
08...	--	--	--	--	--	--	--	--
JUL								
06...	--	--	--	--	--	--	--	--
AUG								
10...	--	--	--	--	--	--	--	--
SEP								
07...	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	NUMBER OF SAMPLING POINTS (COUNT)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
DEC							
07...	1100	1	1.9	2.5	--	2	12
07...	1105	1	1.9	2.5	--	2	10
07...	1110	1	1.9	2.5	1	3	10
JAN							
17...	1345	1	30	5.0	--	--	--
17...	1355	1	30	5.0	--	--	1
17...	1405	1	30	5.0	--	--	--
FEB							
07...	1250	1	34	7.0	--	--	1
07...	1255	1	34	7.0	--	--	1
07...	1300	1	34	7.0	--	--	1
28...	1345	1	15	8.5	--	--	3
28...	1350	1	15	8.5	--	--	2
28...	1355	1	15	8.5	--	--	2
MAR							
09...	1320	1	160	8.0	--	2	8
09...	1325	1	160	8.0	--	1	5
09...	1330	1	160	8.0	--	1	7
09...	1335	1	160	8.0	--	--	5
09...	1340	1	160	8.0	--	1	5

11525580 LITTLE GRASS VALLEY CREEK NEAR LEWISTON, CA

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
DEC							
07...	28	44	62	88	99	100	--
07...	23	34	53	87	100	--	--
07...	21	40	69	94	100	--	--
JAN							
17...	2	9	33	82	100	--	--
17...	6	23	52	89	99	100	--
17...	3	15	47	90	100	--	--
FEB							
07...	9	28	59	90	98	99	100
07...	4	17	43	84	97	99	100
07...	2	14	51	92	100	--	--
28...	14	29	49	84	98	100	--
28...	9	30	53	79	93	97	100
28...	8	25	56	89	99	100	--
MAR							
09...	18	36	62	88	97	97	100
09...	14	33	63	92	98	100	--
09...	17	36	64	91	99	100	--
09...	16	38	67	89	96	100	--
09...	13	34	67	94	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)
JAN									
08...	1140	1000	1120	0.250	0	1130	1145	30	0.5
08...	1150	1000	1120	0.250	0	1145	1200	30	0.5
11...	1240	1000	1120	0.250	0	1230	1245	30	0.5
11...	1255	1000	1120	0.250	0	1245	1300	30	0.5
17...	1320	1000	1120	0.250	0	1315	1325	30	0.5
17...	1335	1000	1120	0.250	0	1330	1340	30	0.5
25...	1310	1000	1100	0.250	0	1305	1315	30	1.0
25...	1320	1000	1100	0.250	0	1315	1325	30	1.0
FEB									
07...	1230	1000	1120	0.250	0	1225	1235	30	1.0
07...	1240	1000	1120	0.250	0	1235	1245	30	1.0
28...	1315	1000	1120	0.250	0	1305	1320	30	1.0
28...	1330	1000	1120	0.250	0	1320	1335	30	1.0
MAR									
09...	1245	1000	1100	0.250	0	1240	1250	30	1.0
09...	1305	1000	1100	0.250	0	1300	1310	30	1.0
APR									
13...	1120	1000	1120	0.250	0	1110	1125	30	0.5
13...	1140	1000	1120	0.250	0	1130	1145	30	0.5

11525580 LITTLE GRASS VALLEY CREEK NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VER-TICALS IN COM-POSITE SAMPLE (NUM)	NUMBER OF SAM-PLING POINTS (COUNT)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COM POSITE SAMPLE T/D/FT	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM
JAN									
08...	2	18	18	2.00	46	4.5	0.42	4.3	--
08...	2	18	18	2.00	45	4.5	0.53	4.3	--
11...	2	16	16	1.50	53	5.0	5.40	49	--
11...	2	16	16	1.50	53	5.0	6.80	49	--
17...	2	20	20	0.50	30	5.0	1.00	12	--
17...	2	20	20	0.50	30	5.0	1.40	12	--
25...	2	10	10	2.00	149	6.0	5.00	53	--
25...	2	10	10	2.00	149	6.0	5.60	53	--
FEB									
07...	2	12	12	2.00	34	7.0	8.70	89	--
07...	2	12	12	2.00	34	7.0	6.20	89	--
28...	2	16	16	1.00	15	8.5	1.40	18	--
28...	2	16	16	1.00	15	8.5	0.91	18	--
MAR									
09...	2	14	14	3.00	167	8.0	1.90	25	1
09...	2	14	14	3.00	167	8.0	1.70	25	--
APR									
13...	2	15	15	2.50	20	7.5	2.70	20	--
13...	2	15	15	2.50	20	7.5	2.50	20	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
JAN									
08...	1	7	18	35	54	85	99	100	--
08...	--	4	14	29	52	89	99	100	--
11...	--	3	10	24	50	84	97	99	100
11...	--	2	8	26	55	88	98	100	--
17...	1	6	22	48	71	93	100	--	--
17...	--	2	9	28	62	92	100	--	--
25...	2	8	18	37	62	87	97	99	100
25...	2	8	19	36	64	92	100	--	--
FEB									
07...	--	3	14	31	52	87	99	100	--
07...	1	6	20	44	70	94	100	--	--
28...	1	8	24	50	76	96	100	--	--
28...	1	16	40	65	86	98	100	--	--
MAR									
09...	2	10	25	50	76	95	99	100	--
09...	1	4	12	29	58	88	95	97	100
APR									
13...	--	2	10	32	65	97	100	--	--
13...	--	1	8	29	62	94	100	--	--

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA

LOCATION.--Lat 40°40'35", long 122°49'46", in SW 1/4 NE 1/4 sec.36, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on right bank 0.1 mi upstream from Phillips Gulch and 2.5 mi southwest of Lewiston.

DRAINAGE AREA.--30.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to current year.

REVISED RECORDS.--WDR CA-86-2: 1983(M). WDR CA-94-2: 1993(P)

GAGE.--Water-stage recorder. Datum of gage is 2,049.73 ft above sea level (California State Highway Department Benchmark).

REMARKS.--No estimated daily discharges. Records fair. Minor regulation by Buckhorn Reservoir since 1990, capacity 1,090 acre-ft; small pumping diversions upstream from station. See schematic diagram of Klamath River and Trinity River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,140 ft^3/s, Feb. 28, 1983; gage height, 10.11 ft, from rating curve extended above 700 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 3.8 ft^3/s, July 29, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 220 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1600	*2,270	*8.90	Mar. 14	1500	691	5.99
Jan. 12	0415	760	6.16	Apr. 7	1300	298	4.83
Jan. 24	1845	855	6.38	May 13	1230	251	4.65
Mar. 10	1500	1,020	6.74				

Minimum daily, 6.9 ft^3/s, Oct. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	11	13	13	407	70	139	149	56	42	21	13
2	7.1	10	13	13	324	79	133	127	58	38	21	13
3	6.9	9.9	14	15	272	100	127	116	57	27	21	13
4	7.3	10	13	28	240	83	123	109	56	22	21	13
5	7.5	13	12	24	217	76	125	103	56	23	21	13
6	7.6	12	12	24	197	71	153	98	53	26	21	13
7	7.6	12	11	82	178	69	264	95	51	29	20	13
8	7.5	11	11	432	169	129	203	93	50	34	20	13
9	7.5	22	10	1650	148	619	171	93	50	35	18	13
10	7.2	13	10	623	137	546	157	97	50	35	18	13
11	7.3	11	11	416	127	432	147	97	50	34	18	13
12	7.3	10	12	540	118	313	149	99	48	35	18	13
13	7.4	10	12	569	112	358	149	123	46	35	18	13
14	7.4	10	13	515	104	581	135	112	52	33	17	13
15	7.8	11	13	314	98	471	130	87	61	32	17	13
16	8.0	11	15	234	93	362	123	82	58	30	17	13
17	8.6	13	15	187	88	296	119	81	59	30	17	13
18	8.7	12	16	159	84	296	114	73	55	31	17	13
19	8.6	11	14	139	82	258	110	69	52	31	17	13
20	8.6	11	13	121	80	366	108	72	50	30	17	13
21	8.6	11	13	117	78	281	102	72	48	29	17	12
22	8.7	11	13	212	77	259	98	68	46	24	17	12
23	8.8	11	13	427	76	233	96	60	45	23	16	12
24	8.7	12	14	736	75	213	95	53	44	23	15	12
25	8.7	18	13	670	74	200	93	52	44	23	15	12
26	9.0	13	13	427	74	186	91	52	44	23	15	13
27	9.3	13	13	330	73	175	96	51	43	23	15	13
28	9.8	12	15	303	71	167	92	51	43	22	14	13
29	9.1	11	14	273	---	159	119	51	43	22	14	13
30	9.3	11	13	343	---	150	110	61	43	22	14	13
31	9.5	---	13	368	---	143	---	59	---	22	13	---
TOTAL	252.6	356.9	400	10304	3873	7741	3871	2605	1511	888	540	385
MEAN	8.15	11.9	12.9	332	138	250	129	84.0	50.4	28.6	17.4	12.8
MAX	9.8	22	16	1650	407	619	264	149	61	42	21	13
MIN	6.9	9.9	10	13	71	69	91	51	43	22	13	12
AC-FT	501	708	793	20440	7680	15350	7680	5170	3000	1760	1070	764

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	12.4	23.2	38.8	70.6	84.9	106	66.7	48.6	30.1	16.2	11.1	10.8
MAX	18.8	70.4	220	332	263	531	186	174	99.8	39.6	22.3	23.0
(WY)	1990	1985	1984	1995	1986	1983	1983	1983	1983	1983	1983	1983
MIN	6.94	8.88	8.20	10.2	9.10	13.8	12.3	15.1	9.64	5.85	4.95	6.50
(WY)	1992	1991	1991	1991	1991	1977	1977	1977	1977	1977	1977	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1976 - 1995	
ANNUAL TOTAL	6513.0		32727.5			
ANNUAL MEAN	17.8		89.7		44.3	
HIGHEST ANNUAL MEAN					136	1983
LOWEST ANNUAL MEAN					10.2	1977
HIGHEST DAILY MEAN	88	Feb 17	1650	Jan 9	2420	Mar 2 1983
LOWEST DAILY MEAN	3.8	Jul 29	6.9	Oct 3	3.8	Jul 29 1994
ANNUAL SEVEN-DAY MINIMUM	4.0	Jul 25	7.3	Oct 1	4.0	Jul 25 1994
INSTANTANEOUS PEAK FLOW			2270	Jan 9	4140	Feb 28 1983
INSTANTANEOUS PEAK STAGE			8.90	Jan 9	10.11	Feb 28 1983
ANNUAL RUNOFF (AC-FT)	12920		64910		32110	
10 PERCENT EXCEEDS	35		236		94	
50 PERCENT EXCEEDS	14		34		19	
90 PERCENT EXCEEDS	6.2		10		8.6	

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.
WATER TEMPERATURE: Water years 1976 to current year.
SEDIMENT DATA: Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: November 1975 to current year.

REMARKS.--Sediment samples were collected on most days where a water temperature is published. Zero bedload observed at flows less than 37 ft^3/s.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 9,550 mg/L, Mar. 2, 1983; minimum daily mean, 0 mg/L several days most years.
SEDIMENT LOAD: Maximum daily, 65,200 tons, Mar. 2, 1983; minimum daily, 0 tons several days most years.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION: Maximum daily mean, 3800 mg/L, Jan. 9; minimum daily mean, 1 mg/L many days.
SEDIMENT LOAD: Maximum daily, 17,200 tons, Jan. 9; minimum daily, .02 ton, several days during October.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
NOV									
07...	0940	12	6.0	1	0.03	--	--	--	--
DEC									
07...	0935	11	3.0	1	0.03	--	--	--	--
JAN									
03...	0930	15	4.0	4	0.16	--	--	--	--
04...	1435	38	5.0	72	7.4	--	--	--	--
08...	0915	479	4.5	766	991	--	--	--	--
09...	1440	2030	6.5	3920	21500	12	13	16	24
11...	0945	405	5.0	1080	1180	--	--	--	--
13...	1100	547	6.0	933	1380	--	--	--	--
17...	1040	187	4.0	150	76	--	--	--	--
25...	1025	695	6.0	1860	3490	--	--	--	--
FEB									
07...	1015	179	6.5	453	219	--	--	--	--
28...	1010	68	8.0	147	27	--	--	--	--
MAR									
09...	1000	851	7.0	4800	11000	--	--	--	--
APR									
13...	0945	150	7.0	52	21	--	--	--	--
MAY									
01...	1100	158	10.0	73	31	--	--	--	--
JUL									
06...	1320	27	16.0	2	0.15	--	--	--	--
08...	0930	51	9.0	6	0.83	--	--	--	--
AUG									
10...	0900	18	14.0	1	0.05	--	--	--	--
SEP									
07...	0915	14	13.0	2	0.08	--	--	--	--

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM	SED. SUSP., SIEVE DIAM. % FINER THAN 4.00 MM
NOV								
07...	--	--	--	--	--	--	--	--
DEC								
07...	--	--	--	--	--	--	--	--
JAN								
03...	--	89	--	--	--	--	--	--
04...	--	76	91	95	97	100	--	--
08...	--	30	37	46	57	76	93	100
09...	35	45	66	81	92	99	100	--
11...	--	17	22	29	42	62	80	100
13...	--	22	31	43	61	81	94	100
17...	--	26	33	39	42	44	48	100
25...	--	22	34	49	63	79	95	100
FEB								
07...	--	9	--	--	--	--	--	--
28...	--	11	--	--	--	--	--	--
MAR								
09...	--	18	--	--	--	--	--	--
APR								
13...	--	17	--	--	--	--	--	--
MAY								
01...	--	24	--	--	--	--	--	--
JUL								
06...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
AUG								
10...	--	--	--	--	--	--	--	--
SEP								
07...	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	NUMBER OF SAMPLING POINTS (COUNT)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
DEC								
07...	0940	1	11	3.0	--	--	1	4
07...	0945	1	11	3.0	--	1	2	5
07...	0950	1	11	3.0	--	--	--	1
07...	0955	1	11	3.0	--	--	1	1
07...	1000	1	11	3.0	1	2	4	9
FEB								
28...	1110	1	67	8.0	--	1	4	14
28...	1115	1	67	8.0	--	--	1	10
28...	1120	1	67	8.0	--	--	1	5
28...	1125	1	67	8.0	--	2	7	20
28...	1130	1	67	8.0	--	--	1	5

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
DEC								
07...	10	15	20	25	32	49	71	100
07...	9	13	17	22	31	61	100	--
07...	2	3	5	6	10	13	22	100
07...	6	11	16	18	23	36	58	100
07...	17	26	36	40	45	58	100	--
FEB								
28...	37	64	80	82	83	100	--	--
28...	44	82	98	100	--	--	--	--
28...	23	63	97	100	--	--	--	--
28...	41	70	93	100	--	--	--	--
28...	18	38	75	98	100	--	--	--

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING METHOD, CODES	SAMPLER TYPE (CODE)	BAG MESH SIZE BEDLOAD SAMPLER (MM)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE)	STARTING TIME (2400 HOURS)	ENDING TIME (2400 HOURS	TIME ON BED FOR BED LOAD SAMPLE (SEC)	HORIZONTAL WIDTH OF VERTICAL (FEET)
JAN									
08...	1000	1000	1100	0.250	0	0950	1005	30	2.0
08...	1015	1000	1100	0.250	0	1010	1025	30	2.0
13...	1200	1000	1100	0.250	0	1150	1205	30	2.0
13...	1215	1000	1100	0.250	0	1210	1220	30	2.0
17...	1100	1000	1100	0.250	0	1055	1105	30	1.0
17...	1115	1000	1100	0.250	0	1110	1120	30	1.0
FEB									
07...	1040	1000	1100	0.250	0	1035	1045	30	1.0
07...	1055	1000	1100	0.250	0	1050	1100	30	2.0
28...	1040	1000	1120	0.250	0	1030	1045	30	1.0
28...	1100	1000	1120	0.250	0	1050	1105	30	1.0

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM)	VERTICALS IN COMPOSITE SAMPLE (NUM)	NUMBER OF SAMPLING POINTS (COUNT)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	DISCH, BEDLOAD AV UNIT FOR COM POSITE SAMPLE T/D/FT	SEDIMENT DISCHARGE, BEDLOAD (TONS/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN									
08...	2	15	15	8.00	479	4.5	0.66	37	1
08...	2	15	15	8.00	471	4.5	1.80	37	--
13...	2	14	14	20.0	566	6.0	0.51	22	--
13...	2	14	14	20.0	566	6.0	1.10	22	--
17...	2	15	15	7.00	187	4.0	0.26	3.5	--
17...	2	15	15	7.00	185	4.0	0.21	3.5	--
FEB									
07...	2	14	14	4.00	179	6.5	1.40	23	--
07...	2	14	14	4.00	179	6.5	1.90	23	--
28...	2	15	15	5.00	66	8.0	3.80	60	--
28...	2	15	15	5.00	66	8.0	4.20	60	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
JAN								
08...	4	13	32	58	82	92	97	100
08...	2	7	25	54	81	91	95	100
13...	5	20	45	76	96	99	100	--
13...	4	12	29	54	82	93	100	--
17...	1	2	8	27	78	97	100	--
17...	1	2	8	33	84	99	100	--
FEB								
07...	2	7	23	55	94	100	--	--
07...	2	8	23	52	92	100	--	--
28...	1	8	28	62	94	100	--	--
28...	1	7	28	59	91	100	--	--

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	6.0	---	7.5	8.0	---	10.0	---	---	---	14.0
2	---	---	---	3.5	8.0	---	---	---	---	---	---	---
3	12.0	5.0	---	4.0	8.0	7.0	---	---	---	---	---	---
4	---	---	---	5.0	---	---	---	---	---	---	---	---
5	---	---	3.5	4.0	---	---	9.5	8.5	13.5	16.0	---	---
6	---	6.5	---	---	5.5	6.0	10.0	---	---	16.0	---	13.0
7	---	6.0	3.0	---	6.5	---	9.0	---	---	---	17.5	13.0
8	11.0	---	---	4.5	7.0	6.5	7.5	---	9.0	---	---	---
9	---	5.0	2.5	6.5	---	7.0	---	---	10.5	---	---	---
10	---	---	---	6.0	---	7.5	---	11.0	---	---	14.0	---
11	---	---	---	5.0	5.5	6.5	---	---	---	---	---	---
12	10.0	---	---	5.5	---	7.5	---	---	---	---	---	16.0
13	---	---	3.5	6.0	---	8.0	7.0	---	---	---	---	---
14	---	3.5	---	6.5	5.5	7.0	---	9.0	12.0	---	---	---
15	---	---	---	5.0	---	7.0	---	---	---	---	17.0	16.0
16	---	5.5	2.0	5.5	---	7.0	6.5	9.5	12.5	---	---	---
17	9.0	5.5	---	4.0	7.0	---	---	---	---	16.0	---	---
18	---	---	---	5.0	---	8.5	---	---	---	---	14.0	---
19	---	---	5.0	6.0	---	---	6.5	12.0	---	---	---	15.0
20	---	4.5	---	6.5	8.0	7.0	---	---	---	---	---	---
21	---	---	---	5.0	---	---	---	---	---	---	17.5	---
22	7.5	---	---	5.5	---	6.0	7.5	14.0	13.0	---	---	---
23	---	---	3.0	5.0	---	5.0	---	---	---	---	---	---
24	---	---	---	6.0	---	---	8.0	---	---	18.0	---	14.5
25	---	4.5	---	6.0	---	6.5	---	---	16.0	---	15.5	---
26	---	---	4.5	---	---	---	---	---	---	14.5	---	---
27	---	---	---	5.5	---	---	---	---	---	---	---	---
28	11.0	---	3.5	6.0	8.0	---	8.5	---	---	---	15.0	14.0
29	---	4.5	---	7.0	---	9.0	10.0	---	16.0	17.0	---	---
30	---	---	---	7.0	---	---	---	12.0	---	---	---	---
31	7.0	---	---	7.5	---	8.0	---	---	---	15.5	---	---

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	7.2	1	.02	11	2	.05	13	2	.06
2	7.1	1	.03	10	1	.03	13	1	.04
3	6.9	2	.03	9.9	1	.03	14	1	.05
4	7.3	2	.03	10	1	.03	13	1	.03
5	7.5	2	.03	13	1	.03	12	1	.03
6	7.6	1	.03	12	1	.03	12	1	.03
7	7.6	1	.02	12	1	.03	11	1	.03
8	7.5	1	.02	11	1	.03	11	2	.05
9	7.5	1	.02	22	19	1.4	10	3	.08
10	7.2	1	.02	13	4	.13	10	3	.08
11	7.3	1	.02	11	2	.05	11	3	.09
12	7.3	1	.02	10	1	.04	12	3	.10
13	7.4	1	.02	10	1	.03	12	3	.11
14	7.4	1	.02	10	1	.03	13	5	.16
15	7.8	1	.02	11	1	.03	13	4	.15
16	8.0	1	.02	11	1	.03	15	5	.22
17	8.6	1	.02	13	1	.03	15	4	.14
18	8.7	1	.02	12	1	.03	16	4	.17
19	8.6	1	.02	11	1	.03	14	2	.08
20	8.6	1	.02	11	1	.03	13	1	.04
21	8.6	1	.02	11	1	.03	13	1	.03
22	8.7	1	.02	11	1	.03	13	1	.03
23	8.8	1	.03	11	1	.03	13	1	.04
24	8.7	2	.04	12	1	.04	14	2	.06
25	8.7	2	.05	18	6	.28	13	1	.04
26	9.0	2	.06	13	3	.10	13	1	.03
27	9.3	3	.08	13	4	.14	13	2	.08
28	9.8	4	.10	12	3	.11	15	3	.13
29	9.1	3	.08	11	3	.09	14	3	.10
30	9.3	3	.06	11	2	.06	13	3	.09
31	9.5	2	.05	---	---	---	13	2	.08
TOTAL	252.6	---	1.04	356.9	---	3.03	400	---	2.45

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	13	2	.08	407	629	693	70	185	35
2	13	2	.07	324	344	304	79	280	62
3	15	3	.15	272	315	231	100	346	94
4	28	36	3.2	240	313	203	83	306	68
5	24	9	.63	217	306	179	76	273	56
6	24	10	.65	197	281	150	71	244	47
7	82	86	28	178	265	127	69	213	39
8	432	629	976	169	426	194	129	567	256
9	1650	3800	17200	148	400	159	619	1850	3490
10	623	1800	3220	137	354	131	546	1280	2260
11	416	1170	1320	127	312	107	432	1100	1300
12	540	1370	2060	118	269	86	313	609	519
13	569	1100	1720	112	232	70	358	724	700
14	515	684	993	104	201	56	581	815	1270
15	314	446	384	98	189	50	471	277	361
16	234	222	142	93	180	45	362	198	194
17	187	102	52	88	173	41	296	193	154
18	159	105	45	84	177	40	296	541	435
19	139	88	33	82	184	41	258	489	341
20	121	94	31	80	191	41	366	715	747
21	117	86	27	78	193	41	281	400	304
22	212	540	353	77	194	40	259	313	219
23	427	1660	2010	76	195	40	233	251	158
24	736	2650	5350	75	196	40	213	283	162
25	670	2340	4380	74	197	40	200	331	178
26	427	1320	1540	74	198	39	186	307	154
27	330	731	656	73	199	39	175	274	129
28	303	525	429	71	218	42	167	244	110
29	273	370	273	---	---	---	159	217	93
30	343	836	799	---	---	---	150	193	78
31	368	738	735	---	---	---	143	170	66
TOTAL	10304	---	44760.78	3873	---	3269	7741	---	14079
		APRIL			MAY			JUNE	
1	139	147	55	149	159	65	56	11	1.7
2	133	126	45	127	105	36	58	6	.97
3	127	108	37	116	93	29	57	6	.87
4	123	92	31	109	80	24	56	5	.81
5	125	79	27	103	69	19	56	5	.76
6	153	399	248	98	59	16	53	5	.75
7	264	1700	1220	95	51	13	51	6	.77
8	203	1290	714	93	43	11	50	4	.52
9	171	413	193	93	37	9.4	50	2	.28
10	157	79	34	97	91	26	50	2	.27
11	147	70	28	97	38	10	50	2	.27
12	149	75	30	99	27	7.3	48	2	.26
13	149	74	30	123	173	67	46	2	.25
14	135	60	22	112	224	71	52	9	1.3
15	130	42	15	87	175	41	61	17	2.7
16	123	31	10	82	147	32	58	8	1.3
17	119	31	9.8	81	68	15	59	11	1.7
18	114	31	9.7	73	47	9.4	55	8	1.2
19	110	31	9.3	69	37	7.0	52	8	1.1
20	108	29	8.3	72	33	6.5	50	8	1.1
21	102	26	7.0	72	31	6.0	48	8	1.0
22	98	23	6.0	68	28	5.2	46	8	1.0
23	96	19	4.9	60	27	4.4	45	8	.98
24	95	16	4.2	53	26	3.6	44	8	.96
25	93	17	4.4	52	24	3.4	44	8	.94
26	91	19	4.6	52	23	3.3	44	8	.92
27	96	20	5.3	51	22	3.1	43	8	.88
28	92	23	5.8	51	21	2.9	43	7	.84
29	119	78	25	51	21	2.9	43	7	.79
30	110	90	27	61	53	8.7	43	5	.60
31	---	---	---	59	22	3.5	---	---	---
TOTAL	3871	---	2870.3	2605	---	561.6	1511	---	27.79

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	42	4	.43	21	1	.06	13	1	.04
2	38	3	.28	21	1	.07	13	1	.03
3	27	2	.15	21	1	.08	13	1	.03
4	22	1	.09	21	1	.08	13	1	.03
5	23	1	.07	21	2	.09	13	1	.04
6	26	1	.10	21	2	.10	13	1	.04
7	29	1	.09	20	2	.11	13	1	.05
8	34	1	.11	20	2	.09	13	1	.05
9	35	1	.13	18	1	.06	13	2	.06
10	35	1	.14	18	1	.05	13	2	.07
11	34	2	.15	18	1	.06	13	2	.08
12	35	2	.17	18	1	.06	13	3	.10
13	35	2	.19	18	2	.07	13	3	.09
14	33	2	.20	17	2	.08	13	2	.08
15	32	2	.21	17	2	.09	13	2	.07
16	30	3	.22	17	2	.09	13	2	.07
17	30	3	.24	17	2	.09	13	2	.07
18	31	3	.21	17	2	.09	13	2	.07
19	31	2	.18	17	2	.07	13	2	.07
20	30	2	.15	17	1	.06	13	2	.07
21	29	2	.12	17	1	.05	12	2	.07
22	24	1	.09	17	1	.05	12	2	.07
23	23	1	.08	16	1	.04	12	2	.07
24	23	1	.07	15	1	.04	12	2	.07
25	23	1	.09	15	1	.04	12	2	.07
26	23	2	.11	15	1	.04	13	2	.07
27	23	2	.10	15	1	.04	13	2	.07
28	22	1	.08	14	1	.04	13	2	.07
29	22	1	.06	14	1	.04	13	2	.05
30	22	1	.06	14	1	.04	13	1	.04
31	22	1	.06	13	1	.04	---	---	---
TOTAL	888	---	4.43	540	---	2.01	385	---	1.86
YEAR	32727.5		65583.29						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1994	252.60	1.04	0	1
NOVEMBER	356.90	3.03	0	3
DECEMBER	400.00	2.45	0	2
JANUARY 1995	10304.00	44760.78	25600	70400
FEBRUARY	3873.00	3269.00	2140	5410
MARCH	7741.00	14079.00	9710	23800
APRIL	3871.00	2870.30	1240	4110
MAY	2605.00	561.60	338	900
JUNE	1511.00	27.79	21	49
JULY	888.00	4.43	0	4
AUGUST	540.00	2.01	0	2
SEPTEMBER ...	385.00	1.86	0	2
TOTAL	32727.50	65583.29	39049	104683

11527000 TRINITY RIVER NEAR BURNT RANCH, CA

LOCATION.--Lat 40°47'20", long 123°26'20", in S 1/2 sec.19, T.5 N., R.7 E., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, on left bank 500 ft upstream from Cedar Flat Creek, 700 ft upstream from highway bridge at Cedar Flat, and 2.3 mi southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 mi^2.

PERIOD OF RECORD.--October 1931 to September 1940, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WDR CA-78-2: 1975(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 944.05 ft above sea level. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi upstream at different datum.

REMARKS.--Records fair. Flow regulated since November 1960 by Clair Engle Lake (station 11525400), 64 mi upstream, and by transbasin diversion to Judge Francis Carr Powerplant (station 11525430) since April 1963. Small diversions upstream from station for irrigation. See schematic diagram of Klamath River and Trinity River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft^3/s, Feb. 25, 1958, gage height, 30.50 ft, from rating curve extended above 40,000 ft^3/s on basis of slope-area measurement at gage height 43.2 ft; minimum, 82 ft^3/s, Aug. 31, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 43.2 ft, from floodmarks, discharge, 172,000 ft^3/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	2030	*35,800	*20.09	Mar. 9	1700	22,800	16.35
Feb. 1	0345	24,400	16.83	Mar. 14	2130	21,300	15.84

Minimum daily, 345 ft^3/s, Oct. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	493	407	768	877	22500	2480	7630	8420	3270	1750	e985	703
2	495	436	1040	831	16100	2470	5670	8550	3340	1730	e995	690
3	492	419	871	825	10700	3280	4540	7760	3130	1720	e987	687
4	487	421	792	903	8930	2910	4130	7300	2740	1540	990	687
5	491	461	712	1100	7790	2530	3840	7490	2530	1450	978	689
6	491	445	682	1140	6760	2240	4470	7350	2150	1500	957	688
7	493	448	641	2340	6000	2040	5760	7210	1800	1460	e943	683
8	428	441	606	8450	5500	2510	5720	7220	1550	1460	e882	680
9	373	556	584	25800	4880	15300	4830	7210	1530	1710	840	677
10	358	599	570	21600	4380	13400	4310	7090	1610	1560	e827	670
11	353	489	575	12400	4060	12200	4060	6920	1750	1320	e823	669
12	351	460	596	13800	3800	9400	4040	6870	1740	1260	810	669
13	356	452	594	15000	3530	9050	4860	6920	1690	1210	794	667
14	352	446	605	19600	3170	14700	5080	6800	2030	1200	789	665
15	345	473	664	12500	2900	15700	5070	6690	3100	1280	798	662
16	366	518	890	8170	2700	11600	4820	6740	2160	1350	807	662
17	370	601	1340	5960	2460	10400	4570	6900	1840	1380	793	663
18	373	562	1620	4760	2460	10800	4370	6680	1790	1440	769	662
19	375	502	1630	3980	2200	10300	4040	5740	1520	1380	725	659
20	368	496	1290	3410	2340	14200	3600	4970	1350	1320	698	653
21	370	532	1110	3000	2780	13500	3060	4290	1310	1260	696	649
22	370	516	1020	3080	2750	11600	2570	3770	1410	1260	735	643
23	373	495	973	4710	2480	10500	2300	3450	1550	1200	748	643
24	373	513	994	6590	2550	9540	2370	3330	1740	1170	750	641
25	372	809	991	8170	2470	10500	2480	3170	1950	1150	748	635
26	370	778	920	6610	2390	10300	2520	3160	2000	1130	730	638
27	370	655	916	5330	2400	10000	3910	3120	1960	1080	721	647
28	371	623	1090	5540	2560	9770	6140	3100	2060	1060	947	647
29	378	586	1060	6340	---	9700	6610	3170	1850	1100	1340	649
30	378	590	978	11900	---	9340	6760	3260	1680	1070	804	642
31	367	---	913	18100	---	8750	---	3250	---	1020	716	---
TOTAL	12302	15729	28035	242816	143540	281010	134130	177900	60130	41520	26125	19919
MEAN	397	524	904	7833	5126	9065	4471	5739	2004	1339	843	664
MAX	495	809	1630	25800	22500	15700	7630	8550	3340	1750	1340	703
MIN	345	407	570	825	2200	2040	2300	3100	1310	1020	696	635
AC-FT	24400	31200	55610	481600	284700	557400	266000	352900	119300	82350	51820	39510

e Estimated.

11527000 TRINITY RIVER NEAR BURNT RANCH, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1960, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	499	1192	1654	2936	5702	5569	5831	5674	3161	878	305	241
MAX	2732	4893	6426	6192	24270	10110	10090	11840	7076	2362	835	497
(WY)	1958	1938	1938	1958	1958	1938	1938	1958	1958	1958	1958	1958
MIN	138	209	253	311	831	2487	3319	1955	808	273	123	111
(WY)	1933	1937	1937	1937	1937	1935	1932	1939	1934	1934	1939	1932

SUMMARY STATISTICS	WATER YEARS 1932 - 1960		
ANNUAL MEAN	2784		
HIGHEST ANNUAL MEAN	6557		1958
LOWEST ANNUAL MEAN	1409		1939
HIGHEST DAILY MEAN	65600	Feb 19	1958
LOWEST DAILY MEAN	93	Sep 13	1939
ANNUAL SEVEN-DAY MINIMUM	95	Oct 1	1931
INSTANTANEOUS PEAK FLOW	81500	Feb 25	1958
INSTANTANEOUS PEAK STAGE	30.50	Feb 25	1958
ANNUAL RUNOFF (AC-FT)	2017000		
10 PERCENT EXCEEDS	7120		
50 PERCENT EXCEEDS	1240		
90 PERCENT EXCEEDS	198		

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	470	1113	2107	3081	2870	3322	2415	2073	1426	692	449	412
MAX	804	3570	8745	10990	10190	13770	8146	6343	7006	1985	1087	734
(WY)	1980	1974	1965	1974	1983	1983	1974	1983	1983	1983	1983	1983
MIN	298	375	274	322	373	512	530	547	449	200	189	230
(WY)	1965	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1964

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	342244		1183156			
ANNUAL MEAN	938		3242		1698	
HIGHEST ANNUAL MEAN					4816	1983
LOWEST ANNUAL MEAN					372	1977
HIGHEST DAILY MEAN	2840	May 10	25800	Jan 9	52800	Dec 22 1964
LOWEST DAILY MEAN	345	Oct 15	345	Oct 15	165	Aug 24 1966
ANNUAL SEVEN-DAY MINIMUM	354	Oct 10	354	Oct 10	170	Aug 21 1966
INSTANTANEOUS PEAK FLOW			35800	Jan 9	78100	Dec 22 1964
INSTANTANEOUS PEAK STAGE			20.09	Jan 9	29.82	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	678800		2347000		1230000	
10 PERCENT EXCEEDS	2090		8630		3510	
50 PERCENT EXCEEDS	702		1460		938	
90 PERCENT EXCEEDS	473		481		339	

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA

LOCATION.--Lat 40°39'00", long 123°29'35", in NW 1/4 SW 1/4 sec.10, T.3 N., R.6 E., Trinity County, Hydrologic Unit 18010212, Trinity National Forest, on left bank 0.3 mi downstream from Big Creek, 3.0 mi northwest of Hyampom, and 3.5 mi downstream from Hayfork Creek.

DRAINAGE AREA.--764 mi^2.

PERIOD OF RECORD.--October 1965 to current year.
SEDIMENT DATA: Water years 1967-70, 1981-82.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,211.37 ft above sea level.

REMARKS.--Records fair. No regulation or diversion upstream from station. See schematic diagram of Klamath River and Trinity River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,000 ft^3/s, Feb. 17, 1986, gage height, 25.47 ft, from rating curve extended above 15,000 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 28.00 ft, Jan. 26, 1983; minimum daily, 14 ft^3/s, Aug. 24, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 30.45 ft, from floodmarks, discharge, 88,000 ft^3/s, on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	0800	*48,100	*21.44	Mar. 9	1330	42,400	18.10
Feb. 1	1730	21,000	14.29				

Minimum daily, 28 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	47	356	693	19700	1690	e5100	6860	964	477	202	108
2	29	53	703	685	13200	1840	e4650	6120	935	453	195	105
3	29	54	611	664	e9600	2720	e4150	4670	897	423	188	101
4	29	59	505	736	e8100	2460	e3400	3890	853	397	182	99
5	29	86	405	958	e7100	2170	e4000	3400	831	387	176	98
6	29	100	364	1330	e6300	1940	e4600	2990	798	374	166	97
7	29	101	320	3910	e5400	1740	e5500	2710	767	366	161	96
8	30	91	279	16500	e4700	4330	e6100	2490	743	355	153	94
9	31	173	250	40500	e3800	32100	e5600	2460	704	357	155	91
10	31	242	228	24400	e3300	19900	e4700	2330	670	347	152	89
11	31	180	226	16500	e3200	e18500	e4000	2180	658	349	153	88
12	31	128	251	19300	e3100	e14300	e3550	2140	638	373	156	85
13	32	107	259	19300	e2850	e11200	e4700	2300	618	373	150	82
14	32	99	274	26700	e2600	e12800	e4400	2180	699	347	150	79
15	33	101	325	14600	e2450	e13500	e4050	2040	1030	322	142	77
16	33	117	809	8220	e2350	e12100	e3700	1920	860	305	137	75
17	34	228	1090	4960	2290	e11000	e3650	1840	718	285	138	74
18	34	231	1330	3150	2160	e10400	e3300	1750	712	272	139	75
19	35	169	1400	2550	2080	e10800	e3150	1670	711	303	139	74
20	35	143	1100	2150	2050	e11300	e2900	1640	662	328	135	73
21	35	140	879	1710	2020	e11500	e2750	1590	624	307	128	70
22	36	139	721	1810	1920	e10300	e2600	1530	594	299	123	68
23	36	138	624	2530	1890	e9000	e2400	1470	569	288	120	66
24	36	142	659	2960	1810	e8100	e2250	1420	545	275	121	66
25	36	618	691	3120	1730	e7400	e2200	1380	528	259	117	67
26	38	640	603	2650	1650	e7000	2120	1300	515	250	118	70
27	39	383	602	2520	1590	e6700	2150	1240	509	243	120	74
28	41	315	917	3850	1530	e6000	2150	1160	494	231	120	80
29	43	288	883	4520	---	e5900	3270	1110	471	223	106	85
30	43	262	765	13100	---	e5700	4680	1060	456	212	114	84
31	43	---	671	16400	---	e5450	---	1000	---	207	113	---
TOTAL	1050	5574	19100	262976	120470	279840	111770	71840	20773	9987	4469	2490
MEAN	33.9	186	616	8483	4302	9027	3726	2317	692	322	144	83.0
MAX	43	640	1400	40500	19700	32100	6100	6860	1030	477	202	108
MIN	28	47	226	664	1530	1690	2120	1000	456	207	106	66
AC-FT	2080	11060	37880	521600	239000	555100	221700	142500	41200	19810	8860	4940

e Estimated.

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	126	765	1830	3430	3157	3365	1925	1005	453	177	89.0	76.4
MAX	351	3475	6355	11740	12770	9027	4989	2701	1660	390	227	185
(WY)	1980	1974	1984	1970	1986	1995	1982	1983	1993	1983	1983	1983
MIN	27.4	72.9	86.8	144	218	365	224	199	91.1	33.0	17.9	22.8
(WY)	1988	1988	1977	1977	1977	1977	1977	1977	1977	1977	1977	1987

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	171156		910339			
ANNUAL MEAN	469		2494		1359	
HIGHEST ANNUAL MEAN					3049	1983
LOWEST ANNUAL MEAN					131	1977
HIGHEST DAILY MEAN	5280	Jan 23	40500	Jan 9	59200	Jan 16 1974
LOWEST DAILY MEAN	27	Sep 25	28	Oct 1	14	Aug 24 1977
ANNUAL SEVEN-DAY MINIMUM	27	Sep 24	29	Oct 1	15	Aug 18 1977
INSTANTANEOUS PEAK FLOW			48100	Jan 9	75000	Feb 17 1986
INSTANTANEOUS PEAK STAGE			21.44	Jan 9	28.00	Jan 26 1983
ANNUAL RUNOFF (AC-FT)	339500		1806000		984700	
10 PERCENT EXCEEDS	1180		6460		3420	
50 PERCENT EXCEEDS	259		658		390	
90 PERCENT EXCEEDS	31		66		64	

11530000 TRINITY RIVER AT HOOPA, CA

LOCATION.--Lat 41°03'00", long 123°40'15", in SE 1/4 NW 1/4 sec.25, T.8 N., R.4 E., Humboldt County, Hydrologic Unit 18010211, in Hoopa Valley Indian Reservation, on left bank 0.1 mi upstream from Supply Creek, 0.1 mi downstream from Hospital Creek and in the town of Hoopa (revised).

DRAINAGE AREA.--2,853 mi^2.

PERIOD OF RECORD.--October 1911 to January 1914, October 1916 to September 1918, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "near Hoopa" 1931-60.
SEDIMENT DATA: Water years 1960-79.

REVISED RECORDS.--WSP 1565: 1913. WDR CA-77-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 274.82 ft above sea level. Prior to October 1931, nonrecording gage at site 0.4 mi upstream at different datum. October 1931 to Dec. 22, 1964, water-stage recorder at site 2.5 mi upstream at datum 31.67 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since November 1960 by Clair Engle Lake (station 11525400) 84 mi upstream, and by transbasin diversion to Judge Francis Carr Powerplant (station 11525430) since April 1963. Small diversions upstream from station for irrigation. See schematic diagram of Klamath River and Trinity River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft^3/s, Dec. 22, 1964, gage height, 57.0 ft, present site and datum, from floodmarks, from rating curve extended above 123,000 ft^3/s; minimum daily, 162 ft^3/s, Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 10	0030	*83,600	*37.06	Mar. 9	1930	63,700	33.18
Feb. 1	0615	60,800	32.56				

Minimum daily, 474 ft^3/s, Oct. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	606	584	2420	2940	59600	5440	17000	17700	5940	2850	1450	1020
2	605	655	3730	2840	49500	5780	14300	19800	5910	2830	1440	1000
3	604	639	3100	2690	34300	7210	12000	16800	5690	2760	1430	989
4	596	671	2520	2730	26700	7100	11000	15100	5160	2610	1400	981
5	597	901	2150	3250	21800	6390	10600	14300	4920	2450	1390	981
6	600	829	2000	4260	18100	5880	13400	13500	4510	2430	1370	980
7	603	766	1820	8050	15200	5510	18900	12800	4100	2400	1330	973
8	589	741	1650	29600	13500	5950	21400	12400	3690	2360	1310	967
9	532	1080	1520	69800	11600	41600	18800	12300	3550	2490	1260	960
10	486	1400	1430	65700	9950	45600	16200	12000	3560	2530	1230	950
11	480	1070	1430	46300	8920	45900	14700	11500	3690	2240	1220	939
12	474	870	1510	48700	8320	35000	14100	11200	3640	2160	1210	935
13	476	782	1510	46400	8050	29800	16500	11900	3520	2110	1200	933
14	482	741	1490	61800	7450	42200	15500	11600	3780	2020	1180	928
15	480	820	1660	47800	6870	51400	14500	11200	5460	2030	1170	920
16	479	1090	4660	32600	6450	36800	13400	11000	4570	2080	1160	916
17	486	1840	6480	23600	6230	29700	12100	10900	3830	2070	1170	914
18	493	1610	6000	17900	6320	28500	11300	10700	3740	2090	1150	912
19	496	1180	6080	14200	6170	26700	10400	9710	3570	2130	1120	914
20	497	1150	4870	11500	6190	36600	10000	8870	3250	2070	1070	905
21	497	1300	4080	9530	6270	39700	9070	8120	3050	1960	1050	894
22	497	1180	3510	9010	6170	33100	8360	7500	3010	1940	1050	889
23	497	1070	3150	11500	6050	29000	7820	7040	3080	1850	1080	884
24	497	1270	3200	13500	6050	25200	7720	6800	3150	1790	1060	884
25	496	3120	3190	16200	5910	23700	7660	6630	3290	1750	1070	888
26	494	3060	2940	14400	5680	22600	7520	6440	3280	1710	1060	887
27	499	2250	2960	12700	5490	21200	8300	6280	3240	1640	1040	915
28	551	2070	3830	14200	5350	20500	11200	6140	3230	1580	1040	926
29	560	1760	3800	17400	---	20000	12100	6150	3070	1580	1600	931
30	556	1640	3410	32600	---	19400	14200	6140	2830	1570	1330	930
31	529	---	3070	47300	---	18500	---	6030	---	1500	1050	---
TOTAL	16334	38139	95170	741000	378190	771960	380050	328550	117310	65580	37690	28045
MEAN	527	1271	3070	23900	13510	24900	12670	10600	3910	2115	1216	935
MAX	606	3120	6480	69800	59600	51400	21400	19800	5940	2850	1600	1020
MIN	474	584	1430	2690	5350	5440	7520	6030	2830	1500	1040	884
AC-FT	32400	75650	188800	1470000	750100	1531000	753800	651700	232700	130100	74760	55630

11530000 TRINITY RIVER AT HOOPA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1960, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	926	2578	6468	9239	11830	10400	10170	8663	4755	1635	650	508
MAX	5405	9589	28060	30140	50380	26370	19320	16700	9875	4265	1365	1248
(WY)	1951	1938	1956	1956	1958	1938	1938	1938	1953	1941	1953	1912
MIN	260	373	531	647	2433	3815	4790	3000	1378	466	249	213
(WY)	1933	1940	1937	1937	1937	1955	1944	1934	1934	1918	1934	1934

SUMMARY STATISTICS	WATER YEARS 1912 - 1960	
ANNUAL MEAN	5618	
HIGHEST ANNUAL MEAN	12270	1958
LOWEST ANNUAL MEAN	2630	1934
HIGHEST DAILY MEAN	158000	Dec 22 1955
LOWEST DAILY MEAN	162	Oct 4 1931
ANNUAL SEVEN-DAY MINIMUM	164	Oct 1 1931
INSTANTANEOUS PEAK FLOW	a190000	Dec 22 1955
INSTANTANEOUS PEAK STAGE	36.90	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	4070000	
10 PERCENT EXCEEDS	12700	
50 PERCENT EXCEEDS	3070	
90 PERCENT EXCEEDS	442	

a From rating curve extended above 56,000 ft3/s.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	824	3220	6953	10330	9176	9939	6515	4409	2563	1170	714	637
MAX	1805	12900	29710	32090	28810	32240	16040	12020	8999	3233	1681	1309
(WY)	1980	1974	1965	1970	1986	1983	1983	1983	1983	1983	1983	1983
MIN	472	679	529	745	891	1608	1325	1204	746	338	270	336
(WY)	1988	1991	1977	1977	1977	1977	1977	1977	1977	1977	1977	1969

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	756161		2998018			
ANNUAL MEAN	2072		8214		4686	
HIGHEST ANNUAL MEAN					11350	1983
LOWEST ANNUAL MEAN					786	1977
HIGHEST DAILY MEAN	12500	Jan 24	69800	Jan 9	168000	Dec 22 1964
LOWEST DAILY MEAN	474	Oct 12	474	Oct 12	244	Aug 23 1977
ANNUAL SEVEN-DAY MINIMUM	480	Oct 10	480	Oct 10	246	Aug 18 1977
INSTANTANEOUS PEAK FLOW			83600	Jan 10	231000	Dec 22 1964
INSTANTANEOUS PEAK STAGE			37.06	Jan 10	57.00	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	1500000		5947000		3395000	
10 PERCENT EXCEEDS	4030		21300		10800	
50 PERCENT EXCEEDS	1520		3200		2060	
90 PERCENT EXCEEDS	591		741		563	

11530500 KLAMATH RIVER NEAR KLAMATH, CA

LOCATION.--Lat 41°30'52", long 123°59'57", in SW 1/4, sec.13, T.13 N., R.2 E., Del Norte County, Hydrologic Unit 18010209, on right bank 0.2 mi upstream from Turwar Creek and 2.2 mi southeast of Klamath.
DRAINAGE AREA.--12,100 mi^2, approximately (not including Lost River or Lower Klamath Lake basins).
PERIOD OF RECORD.--Water years 1951 to September 1995 (discontinued).
WATER-DISCHARGE RECORDS: Water years 1910-27 (published as "near Requa"), 1950-94.
CHEMICAL DATA: Water years 1951 to September 1995 (discontinued).
BIOLOGICAL DATA: Water years 1975-81.
SPECIFIC CONDUCTANCE: Water years 1975-81.
WATER TEMPERATURE: Water years 1966-81.
SEDIMENT DATA: Water years 1955-56, 1975 to September 1995 (discontinued).
PERIOD OF DAILY RECORD.--
WATER-DISCHARGE RECORDS: October 1910 to December 1926 (published as "near Requa"), October 1950 to September 1994 (discontinued).
SPECIFIC CONDUCTANCE: October 1974 to September 1981.
WATER TEMPERATURE: November 1965 to September 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
08...	1330	3240	180	8.3	9.0	0.40	762	10.3	89	23
FEB										
02...	1410	163000	93	8.0	9.0	150	762	11.8	102	K51
MAR										
29...	1305	47400	142	8.0	9.5	37	766	11.7	102	K2
MAY										
24...	1240	25900	114	8.1	13.5	6.8	763	9.6	92	K4
JUL										
26...	1415	6020	169	8.1	20.5	0.80	761	8.4	93	K1
SEP										
26...	1645	3960	183	8.3	19.0	0.50	756	8.8	96	K4

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3
NOV										
08...	K6	79	3	18	8.3	8.1	18	0.4	1.3	93
FEB										
02...	220	41	0	9.6	4.2	2.0	9	0.1	0.60	50
MAR										
29...	K7	62	0	14	6.5	4.2	13	0.2	0.80	80
MAY										
24...	K3	52	1	12	5.4	3.5	13	0.2	0.60	63
JUL										
26...	69	75	1	17	8.0	6.1	15	0.3	0.90	91
SEP										
26...	22	72	0	16	7.8	9.1	21	0.5	1.5	98

DATE	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
NOV										
08...	0	77	9.7	5.5	<0.10	19	119	116	0.16	<0.010
FEB										
02...	0	41	3.0	1.2	<0.10	13	65	59	0.09	<0.010
MAR										
29...	0	66	5.2	3.2	<0.10	17	87	91	0.12	<0.010
MAY										
24...	0	52	4.2	1.5	<0.10	13	72	71	0.10	<0.010
JUL										
26...	0	75	7.1	2.9	<0.10	16	107	103	0.15	<0.010
SEP										
26...	0	80	7.2	4.3	<0.10	19	118	114	0.16	0.010

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)
NOV										
08...	0.090	<0.015	<0.20	0.040	0.030	0.040	<10	16	<3	30
FEB										
02...	0.070	0.020	0.40	0.080	0.010	0.020	330	11	<3	260
MAR										
29...	0.080	<0.015	<0.20	0.030	<0.010	0.030	--	--	--	--
MAY										
24...	<0.050	<0.015	<0.20	0.020	<0.010	<0.010	60	11	<3	64
JUL										
26...	<0.050	0.020	<0.20	<0.010	<0.010	0.020	--	--	--	--
SEP										
26...	0.090	<0.015	0.30	0.050	0.060	0.050	20	15	<3	18

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
NOV										
08...	<4	8	<10	3	<1	<1.0	110	<6	--	--
FEB										
02...	<4	8	<10	6	<1	<1.0	49	<6	--	--
MAR										
29...	--	--	--	--	--	--	--	--	--	0.14
MAY										
24...	<4	3	10	3	<1	<1.0	62	<6	--	--
JUL										
26...	--	--	--	--	--	--	--	--	--	--
SEP										
26...	<4	2	<10	2	<1	<1.0	98	<6	0.02	0.08

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR											
28...*	1615	10.5	602	139	8.0	9.5	769	11.3	98	131	79
28...*	1635	10.2	458	140	8.1	9.5	769	11.3	98	160	67
28...*	1655	15.9	349	140	8.1	9.5	769	11.6	101	170	64
28...*	1715	16.0	241	140	8.0	9.5	769	11.4	99	168	63
28...*	1735	14.0	136	140	8.0	9.5	769	11.3	98	148	70
SEP											
26...*	1350	9.10	150	182	8.2	19.0	756	8.6	94	3	--
26...*	1405	10.0	250	183	8.3	19.0	756	8.7	95	2	--
26...*	1420	11.4	325	182	8.4	18.5	756	8.8	95	3	--
26...*	1435	10.9	410	183	8.4	18.5	756	8.6	93	3	--
26...*	1450	6.80	540	183	8.4	18.5	756	8.5	91	3	--

*Instantaneous streamflow at the time of cross-sectional measurement: Mar. 28, 49,000 ft^3/s Sept. 26, 3,930 ft^3/s.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
08...	1330	3240	9.0	4	35	91
FEB						
02...	1305	168000	9.0	558	253000	79
02...	1330	165000	9.0	534	238000	74
MAR						
28...	1650	49100	9.5	156	20700	68
29...	1305	47400	9.5	147	18800	71
MAY						
24...	1240	25900	13.5	50	3500	62
JUL						
26...	1415	6020	20.5	10	163	77
SEP						
26...	1425	3810	18.5	3	31	77
26...	1645	3960	19.0	1	11	--

11532500 SMITH RIVER NEAR CRESCENT CITY, CA

LOCATION.--Lat 41°47'30", long 124°04'30", in SW 1/4 SW 1/4 sec. 9, T.16 N., R.1 E., Del Norte County, Hydrologic Unit 18010101, Redwood National Park, on right bank opposite mouth of Cedar Creek, 1.6 mi downstream from South Fork and 7 mi east of Crescent City.

DRAINAGE AREA.--614 mi^2.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 79.26 ft above sea level. Prior to Oct. 9, 1991, at site 1.1 mi upstream at datum 10.35 ft higher.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft^3/s, Dec. 22, 1964, gage height, 48.5 ft, from floodmarks, from rating curve extended above 110,000 ft^3/s on basis of slope-area measurement at gage height 39.51 ft, former site and datum; minimum daily, 160 ft^3/s, Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 36,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 9	1200	*81,400	*25.60	Mar. 20	0815	38,400	19.69
Jan. 31	1600	63,600	23.45				

Minimum daily, 200 ft^3/s, several days in October.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	1110	12900	3710	40700	2410	5460	7580	1340	1000	472	356
2	223	922	9020	3350	24100	2560	4950	11100	1300	958	465	349
3	212	557	7170	3030	13900	3200	4630	7490	1260	916	458	343
4	200	965	5380	2790	10100	3690	4510	5760	1220	881	449	342
5	200	3140	4170	3540	8030	5050	4790	4860	1280	851	442	339
6	200	1300	3670	6030	6630	4470	6260	4210	1180	823	436	338
7	200	962	3450	9550	5670	3760	15600	3750	1120	806	442	332
8	201	794	3190	15400	4980	4270	16100	3390	1060	792	438	324
9	200	6810	2860	55100	4380	18300	11700	3240	1020	802	426	320
10	200	3120	2680	43800	3940	18200	8750	3260	1070	793	427	316
11	200	1760	3410	26400	3600	17400	7330	3280	1210	755	444	315
12	205	1310	5670	27000	3460	12200	8060	3300	1030	741	434	311
13	211	1030	4450	26100	4040	12200	16300	3150	976	725	421	305
14	231	865	3940	39700	3650	21100	11100	2890	1170	694	408	302
15	256	1730	4250	29800	3310	18100	8340	2730	2920	668	403	303
16	242	6070	13000	17900	3110	11600	6740	2600	1880	644	399	308
17	226	8350	15900	12000	4840	8490	5790	2470	1530	627	405	310
18	222	4310	12300	10500	9800	12900	5290	2340	1940	618	402	306
19	220	2750	9250	10400	6750	13500	4720	2210	3300	633	393	298
20	217	4490	6740	8310	5370	28300	5070	2140	3670	620	379	288
21	216	4070	5280	6810	4560	19300	5100	2070	2630	595	371	283
22	220	2830	4430	5930	4000	15100	4700	2000	2090	592	366	280
23	220	2290	3860	5240	3620	11500	4360	1910	1780	583	362	279
24	216	6960	3790	4720	3340	8990	4210	1820	1580	575	364	283
25	214	14500	3400	4370	3090	7460	3920	1730	1440	565	361	308
26	219	7090	3970	5560	2860	6520	3630	1670	1320	566	356	314
27	383	5910	8520	7500	2670	6110	3560	1590	1220	545	354	365
28	1470	5880	9220	8710	2530	6220	4490	1530	1160	523	355	478
29	543	4430	6080	9140	---	6300	5940	1500	1090	510	382	453
30	346	5760	4750	21200	---	6090	5120	1450	1040	495	379	366
31	289	---	3960	43600	---	5820	---	1400	---	481	364	---
TOTAL	8632	112065	190660	477190	197030	321110	206520	100420	46826	21377	12557	9814
MEAN	278	3735	6150	15390	7037	10360	6884	3239	1561	690	405	327
MAX	1470	14500	15900	55100	40700	28300	16300	11100	3670	1000	472	478
MIN	200	557	2680	2790	2530	2410	3560	1400	976	481	354	279
AC-FT	17120	222300	378200	946500	390800	636900	409600	199200	92880	42400	24910	19470

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1039	4626	7325	8441	7399	6573	4379	2747	1291	535	340	336
MAX	11770	23620	21470	21930	22680	15760	11960	7550	3876	1217	715	1471
(WY)	1951	1974	1982	1953	1986	1938	1982	1933	1937	1947	1947	1978
MIN	185	200	264	767	1076	1602	1406	835	524	336	226	198
(WY)	1965	1937	1977	1977	1977	1988	1977	1947	1987	1987	1959	1939

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1932 - 1995	
ANNUAL TOTAL	807939		1704201			
ANNUAL MEAN	2214		4669		3737	
HIGHEST ANNUAL MEAN					7027	1974
LOWEST ANNUAL MEAN					975	1977
HIGHEST DAILY MEAN	15900	Dec 17	55100	Jan 9	180000	Dec 22 1964
LOWEST DAILY MEAN	190	Sep 27	200	Oct 4	160	Oct 24 1964
ANNUAL SEVEN-DAY MINIMUM	195	Sep 22	200	Oct 4	163	Oct 20 1964
INSTANTANEOUS PEAK FLOW			81400	Jan 9	228000	Dec 22 1964
INSTANTANEOUS PEAK STAGE			25.60	Jan 9	48.50	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	1603000		3380000		2707000	
10 PERCENT EXCEEDS	5440		11600		8750	
50 PERCENT EXCEEDS	1530		2670		1570	
90 PERCENT EXCEEDS	226		306		265	

11532650 SMITH RIVER NEAR FORT DICK, CA

LOCATION.--Lat 41°52'51", long 124°08'07", in SW 1/4 NW 1/4 sec.12, T.17 N., R.1 W, Del Norte County, Hydrologic Unit 18010101, on right bank 10 ft upstream from bridge on U.S. Highway 101, 0.2 mi downstream from Hutsinpillar Creek, and 1.2 mi northeast of Fort Dick.

DRAINAGE AREA.--672 mi^2.

PERIOD OF RECORD.--October 1989 to current year. Records prior to October 1989 are in files of the California Department of Water Resources.

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--Data is collected for flood-warning purposes only. No figures are given for elevations below 13.39 during the month of October or for elevations below 13.49 during months of August and September.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 34.12 ft, Jan. 8, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 30.71 ft, Jan. 9.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	15.27	13.45	21.21	18.31	16.68	16.52	---	---	15.33	15.27
2	---	---	15.13	14.32	20.17	18.57	16.52	16.30	---	---	15.67	15.26
3	---	---	14.32	14.03	18.73	18.14	16.30	16.11	---	---	15.95	15.67
4	13.39	13.39	15.36	13.96	---	---	16.11	15.96	---	---	16.57	15.83
5	14.35	13.38	17.30	15.36	---	---	17.54	15.95	---	---	17.10	16.57
6	14.36	14.06	15.39	14.75	---	---	17.92	17.54	---	---	16.94	16.45
7	14.42	14.32	14.75	14.50	---	---	21.55	17.78	---	---	16.45	16.12
8	14.43	14.42	14.50	14.35	---	---	21.63	20.98	---	---	17.75	16.03
9	14.42	14.17	20.21	14.49	---	---	30.71	21.31	---	---	22.83	17.75
10	14.18	13.89	17.49	15.72	---	---	28.27	24.40	---	---	22.73	20.54
11	13.90	13.88	15.72	15.10	---	---	24.40	23.08	16.17	15.97	22.63	20.62
12	13.94	13.88	15.10	14.81	---	---	23.92	22.79	16.17	15.89	20.62	19.47
13	13.98	13.93	14.81	14.58	---	---	24.93	22.71	16.75	16.17	19.96	19.54
14	14.16	13.98	14.58	14.41	---	---	26.62	24.51	16.27	15.99	23.87	19.78
15	14.35	14.16	16.66	14.40	---	---	24.58	22.17	15.99	15.82	22.66	20.54
16	14.35	14.16	18.15	16.66	---	---	22.17	20.17	15.83	15.69	20.54	19.12
17	14.16	14.05	19.72	17.93	---	---	20.17	19.20	19.37	15.70	19.12	18.28
18	14.05	14.01	17.98	16.47	20.66	19.95	19.49	19.14	---	---	20.94	18.28
19	14.03	14.00	16.47	15.83	20.05	18.69	19.41	18.59	---	---	20.93	19.68
20	14.02	13.99	17.69	15.84	18.69	17.87	18.59	17.92	---	---	25.64	19.84
21	14.00	13.99	17.42	16.39	17.87	17.26	17.92	17.48	---	---	22.99	21.26
22	14.01	13.99	16.39	15.84	17.26	16.86	17.48	17.12	---	---	21.31	20.37
23	14.01	14.00	15.84	15.64	16.86	16.57	17.12	16.83	---	---	20.38	19.37
24	14.00	13.97	20.25	15.81	16.84	16.57	16.83	16.58	---	---	19.38	18.51
25	13.98	13.93	22.38	e19.60	16.61	16.35	16.86	16.53	15.87	15.70	18.54	17.98
26	14.04	13.97	e19.60	17.76	18.07	16.28	18.29	16.85	15.71	15.56	17.99	17.61
27	15.11	14.04	18.26	17.42	20.38	18.07	18.29	17.70	15.56	15.44	17.64	17.46
28	15.87	14.68	18.24	17.32	20.40	18.55	19.01	18.29	15.44	15.33	17.61	17.49
29	15.04	14.09	17.32	16.89	18.55	17.61	---	---	---	---	17.65	17.46
30	14.70	14.28	18.31	17.00	17.61	17.04	---	---	---	---	17.56	17.35
31	14.28	13.43	---	---	17.04	16.66	---	---	---	---	17.44	17.20

e Estimated

11532650 SMITH RIVER NEAR FORT DICK, CA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.22	17.01	19.45	16.89	14.61	14.56	14.31	14.26	13.56	13.54	---	---
2	17.02	16.75	20.02	18.93	14.57	14.52	14.27	14.22	13.54	13.52	---	---
3	16.78	16.64	18.93	17.89	14.53	14.49	14.22	14.17	13.53	13.51	---	---
4	16.72	16.54	17.89	17.21	14.49	14.45	14.19	14.14	13.51	13.50	---	---
5	17.40	16.54	17.22	16.87	14.59	14.47	14.15	14.11	---	---	---	---
6	17.71	17.35	16.87	16.43	14.49	14.40	14.12	14.07	---	---	---	---
7	21.50	17.60	16.44	16.20	14.41	14.34	14.08	14.05	---	---	---	---
8	21.33	20.61	16.20	16.00	14.37	14.31	14.07	14.03	---	---	---	---
9	20.62	19.17	16.04	15.95	14.31	14.27	14.09	14.02	---	---	---	---
10	19.17	18.32	16.08	15.90	14.50	14.25	14.08	14.01	---	---	---	---
11	18.32	17.92	16.07	15.89	14.57	14.37	14.02	13.98	---	---	---	---
12	19.97	17.94	16.03	15.95	14.38	14.26	13.99	13.96	---	---	---	---
13	21.79	19.97	15.98	15.81	14.27	14.23	13.98	13.94	---	---	---	---
14	20.34	19.00	15.82	15.68	14.85	14.24	13.94	13.90	---	---	---	---
15	19.00	18.23	15.68	15.60	16.36	14.85	13.91	13.87	---	---	---	---
16	18.23	17.61	15.62	15.50	15.51	14.92	13.88	13.84	---	---	---	---
17	17.61	17.32	15.52	15.42	14.92	14.77	13.85	13.81	---	---	---	---
18	17.33	17.01	15.43	15.33	15.34	14.79	13.84	13.79	---	---	---	---
19	17.01	16.78	15.33	15.24	16.52	15.34	13.85	13.83	---	---	---	---
20	17.10	16.80	15.28	15.19	16.53	15.92	13.83	13.81	---	---	---	---
21	17.08	16.95	15.22	15.15	15.92	15.40	13.81	13.75	---	---	---	---
22	16.95	16.69	15.18	15.09	15.40	15.11	13.75	13.74	---	---	---	---
23	16.70	16.54	15.11	15.03	15.11	14.90	13.74	13.71	---	---	---	---
24	16.59	16.44	15.05	14.96	14.90	14.77	13.73	13.71	---	---	---	---
25	16.45	16.26	14.98	14.88	14.78	14.66	13.71	13.69	---	---	---	---
26	16.26	16.09	14.89	14.83	14.67	14.55	13.72	13.69	---	---	---	---
27	16.25	16.07	14.83	14.77	14.56	14.47	13.69	13.65	---	---	---	---
28	16.89	16.25	14.78	14.73	14.48	14.41	13.66	13.62	---	---	---	---
29	17.64	16.89	14.76	14.70	14.41	14.34	13.64	13.60	---	---	---	---
30	17.42	16.88	14.71	14.66	14.35	14.29	13.62	13.57	---	---	---	---
31	---	---	14.66	14.61	---	---	13.58	13.56	---	---	---	---

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low- or flood-flow analyses, depending on the type of data collected.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this volume made at low-flow partial-record stations are given in the following table. The column headed "Period of record" shows the water years in which measurements were made at the same or practically the same site.

Discharge measurements made at low-flow partial-record stations during water year 1995

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Klamath River basin				
11525520	Deadwood Creek at Lewiston, CA	Lat 40°43'02", long 122°48'04", in SW 1/4 NW 1/4 sec.17, T.33 N., R.8 W., Trinity County, 300 ft upstream from mouth and 0.7 mi northeast of Lewiston.	9.10	a1965-75, 1976-95	02-02-95	76.6
					03-06-95	b7.12
					03-16-95	70.0
					03-27-95	30.9
					09-07-95	b0.81

a Published as a miscellaneous measurement.
b Base flow.

Special study and miscellaneous sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the area covered by this volume.

Discharge measurements made at special study and miscellaneous sites during water year 1995

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water year)	Measurements	
					Date	Discharge (ft^3/s)
Salinas River basin						
11151870 Arroyo Seco near Greenfield, CA	Salinas River	Lat 36°14'15", long 121°28'50", in NE 1/4 SE 1/4 sec.36, T.19 S., R.4 E., Monterey County, Hydrologic Unit 18060005, on right bank 0.6 mi downstream from Rocky Creek and 14.5 mi southwest of Greenfield.	113	1962-94	10-04-94	1.25
					11-03-94	3.38
					12-05-94	21.6
					1-18-95	668
					2-08-95	284
					3-03-95	307
					3-17-95	946
					4-07-95	381
					5-03-95	291
					6-05-95	99.0
Alameda Creek Basin						
11177200 Vallecitos Creek	Arroyo de la Laguna	Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank at culvert on Sunol Road, 700 ft upstream from mouth, and 0.3 mi east of Sunol.	7.48	1975-76, 1977-95	10-26-94	1.20
					11-16-94	.71
					12-22-94	.54
					1-20-95	23.5
					3-08-95	2.52
					3-29-95	25.1
					5-11-95	1.79
					7-12-95	.18
					9-06-95	.19

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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